



**JOURNEYS OF  
DISCOVERY**  
**EXPLORING LIFE, DESIGN, AND  
CULTURAL PRESERVATION**

**Prof. Kunica Khosla**

# Journeys of Discovery

Exploring Life, Design, and  
Cultural Preservation



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**BOOKS ARCADE**

KRISHNA NAGAR, DELHI

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Prof. Kunica Khosla

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## CONTENTS

<b>Chapter 1.</b> A Discussion on Desire for Elsewhere.....	1
— <i>Prof. Kunica Khosla</i>	
<b>Chapter 2.</b> Shaping Futures: A Comprehensive Exploration of the History and Evolution of Juvenile Justice .....	14
— <i>Prof. Akhil Sain</i>	
<b>Chapter 3.</b> Preserving Naga Oral Traditions: A Visual Narrative Approach to Safeguarding Rich Folklore.....	25
— <i>Prof. Harmindar Singh</i>	
<b>Chapter 4.</b> A Role of Sanskruti in Cultural.....	37
— <i>Prof. Vaibhav Panchal</i>	
<b>Chapter 5.</b> A Brief Discussion on CRAVINGS .....	50
— <i>Prof. Antra Paul</i>	
<b>Chapter 6.</b> Integrating Mindfulness Practices into Workplace Culture for Employee Well-being and Organizational Effectiveness .....	63
— <i>Prof. Harsh Mohanty</i>	
<b>Chapter 7.</b> LINEA: A line of collapsible bags .....	76
— <i>Prof. Divya Vijaychandran</i>	
<b>Chapter 8.</b> Samsara: A Multidisciplinary Exploration and Rediscovery of the Profound Essence of Sanskrit.....	84
— <i>Prof. Divya Vijaychandran</i>	
<b>Chapter 9.</b> An Overview of Interior Designing .....	98
— <i>Prof. Nikhil Sahni</i>	
<b>Chapter 10.</b> Life Cycle Design for Eating Spaces .....	108
— <i>Prof. Amruta Sawant</i>	
<b>Chapter 11.</b> Increased Life Span: A Comprehensive Stages of Aging and Phases after Retirement .	118
— <i>Dr. Shreya Maulik</i>	
<b>Chapter 12.</b> Unlocking The Secrets of Sleep: A Comprehensive Guide to Understanding the Science, Benefits, And Impact of Quality Rest.....	128
— <i>Prof. Uttam Kumar</i>	
<b>Chapter 13.</b> Empowering Inclusive Democracy: Ensuring Every Voice is counted.....	139
— <i>Dr. Peeyush K Gupta</i>	

## CHAPTER 1

### A DISCUSSION ON DESIRE FOR ELSEWHERE

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#### **ABSTRACT:**

You're accessing one of the richest and most profound veins of the human experience as soon as you begin telling others about your travel experiences. Focus, which has two levels that may make or break the message behind it, is, in my view, the core of the skill of travel storytelling. The first is the experienced one. To write profoundly, one must live completely. This implies that having excellent senses of taste, hearing, smell, and emotion is your primary duty as a storyteller. Using well selected details to effectively convey your experience and make your points understood by your reader is the second step in mastering the art of concentration. Every tale is built around these types of details. You should make an effort to provide a broader context for your experience beyond these basic actions. Every move has two matching travels: an inside journey and an outside journey. The interaction between these worlds and journeys is the basis of a travel writer's narrative. But this does not mean that you may pamper yourself. The key to a great narrative is to express exactly what needs to be stated in exactly the right number of words. Great storytelling is not about length. That was precisely my thesis's goal. It was a personal quest to comprehend tales and storytelling in the context of travel. It was about me learning how to be vulnerable, about letting go and believing in the people around me. By doing this, I was able to investigate people's need for unadulterated trip narratives, the emotional rollercoaster they experience while reading them, and the method that enables them to experience as much distance as they wish via virtual travel. The intention was to be able to launch my own travel blog using the findings of the research as a foundation. In this regard, the study further demonstrates how the future of travel tales is heavily dependent on the need of taking into account aesthetics, narrative structure, and reader relevance in addition to a strong emotional connection that may be regarded as a factor in marketing research.

#### **KEYWORDS:**

Cultural Exchange, Emotional Connection, Sustainable Travel, Travel Experiences, Travel Storytelling.

### 1. INTRODUCTION

Ever since the publication of well-known books like "The Journal of Christopher Columbus" and "The Wonders of the World by Marco Polo," travel narratives have captivated people's attention. Authors in this genre are required to analyze vast and varied amounts of information (written, visual, and sensory) that they gather while traveling, then combine it in a manner that is both human and allows the reader to feel and interact with the tale on a personal level without diluting its authenticity. Thus, the goal of this research is to analyze and characterize a literary nonfiction work that includes factual, qualitative, and quantitative data supported by evidence. There will be no use of conventional techniques in this study [1], [2]. Rather, it will use natural language processing (NLP) methods to analyze and extract pertinent data from the text. This literary analysis is a novel approach that promotes more conversations on the existing approaches. The thesis allows for the complementarity of geographical data with textual analysis by establishing connections between the persons in the text and actual locations, as well as exploratory analysis of both individual and unstructured corpus databases. The globe

has become a smaller place due to the rapid development of communication and transportation technology. Traveling the globe has never been simpler than it is right now. The opportunity to discover new locations, diverse cultures, and one-of-a-kind experiences comes with travel. There are many different reasons why people travel, such as adventure, education, business, and pleasure. Even if traveling is thrilling and exhilarating, it's crucial to think about sustainable travel strategies that might lessen adverse effects on the environment and nearby populations. I will examine travel behaviors, environmentally friendly travel methods, feelings that come up when traveling, and the value of trip records in this thesis [3], [4]. The important research that look at the connection between storytelling and travel narrative are included in this survey of the literature. Since travel writing is inherently narrative, the paper addresses the ways in which narrative components might enhance the effectiveness of travel writing tales. The paper also discusses how travel tales may be a useful instrument for international dialogue and cultural exchange.

Readers have been captivated by travel narratives and storytelling for generations, making them intriguing components of content development. They are crucial to understanding and appreciating the complex ways in which individuals encounter and communicate their tales of the world. These individuals often travel across many cultures, languages, and geographical areas in an effort to better understand both themselves and others. Numerous travel tales have developed throughout time, each of which reflects the unique experiences, viewpoints, and cultural backgrounds of the authors as well as the readers for whom it is meant [5], [6]. Travel authors have used a variety of techniques to tell their tales, drawing from a wide range of philosophical, literary, and cultural traditions. These techniques have been employed by imperial explorers, feminist adventurers, romantic poets, and postmodern novelists. Traveling is a wide and unrestricted activity that might cost a lot or nearly nothing, and it can take a day or a month. People often feel compelled to relate their experiences of escaping the hardships and boring routines of everyday life when they travel and return home.

Most people's travel stories are nothing more than brief narratives about their experiences, often accompanied by pictures of them relaxing on a beach or in a famous European structure. People eventually return to the lives they momentarily left behind, yet these experiences may be profound and lifelong. The globe has become a smaller place due to the rapid development of communication and transportation technology. Traveling the globe has never been simpler than it is right now. The opportunity to discover new locations, diverse cultures, and one-of-a-kind experiences comes with travel. There are many different reasons why people travel, such as adventure, education, business, and pleasure. Even if traveling is thrilling and exhilarating, it's crucial to think about sustainable travel strategies that might lessen adverse effects on the environment and nearby populations [7], [8]. I will examine travel behaviors, environmentally friendly travel methods, feelings that come up when traveling, and the value of trip records in this thesis. The important research that look at the connection between storytelling and travel narrative are included in this survey of the literature. Since travel writing is inherently narrative, the paper addresses the ways in which narrative components might enhance the effectiveness of travel writing tales. The paper also discusses how travel tales may be a useful instrument for international dialogue and cultural exchange.

**Emotions:** A location can only be fully experienced and absorbed by you if you allow yourself to be fully open to it. By doing this, you facilitate and create meaningful relationships that will eventually be the focus of excellent trip narratives as well as their effects. If you write about locations and people properly, your reader will also feel a connection to the places and people you have written about [9], [10]. Traveling may be difficult as well, particularly for those who go alone or to places they've never been before. Unfamiliar surroundings, cultural disparities,

and language limitations may all contribute to feelings of loneliness, isolation, or anxiety. But these difficulties may also foster confidence, self-awareness, and personal development. And so, with each narrative you write, the world absorbs a little bit more gratitude, a little bit more tolerance, a little bit more compassion.

**Culture and Encounter:** Meeting people from other cultures and lifestyles is a significant topic in travel narratives and storytelling. As they interact with the complexity and variety of the globe, travel writers often confront their own presumptions and ideas by visiting new locations and getting to know new people. These interactions may take many different shapes, from striking up a casual discussion with a complete stranger to meeting individuals who work specifically in this field.

**Identity and Self-Discovery:** The quest for one's own identity and self-discovery is one of the most prevalent topics in travel narrative and storytelling. A lot of travel stories are told as quests or journeys, with the main characters trying to figure out who they are and where they fit in the world. They often go through a process of change and development as they get to know new people, cultures, and environments. They also learn to become more empathetic and let go of their prejudices and assumptions. The pursuit of self-discovery within the framework of marginalization and oppression has also been a recurring theme in a large number of travel memoirs authored by women and people of color [11], [12]. The characters in books like Malcolm X's *Autobiography* and Maxine Hong Kingston's *The Woman Warrior* examine their own identities and histories in addition to the tragedies and difficulties faced by their local communities. By visiting other locations and interacting with individuals from different backgrounds and customs, students get a more profound comprehension of their own cultural background and the influence of privilege and power on their existence.

Social inclusion from social norms. The act of traveling itself sets a traveler apart. They become the exception, choosing to remain in their houses while the great majority chooses to leave. In addition, they seem strange and out of place in the surroundings of the area they live in. However, when travel writers write about their experiences, they often act as ambassadors for their own countries and customs. As a result, the tension between the norm and the exceptions expresses both the communal and individual identities. Sometimes travelers embrace this really "ex-centric" stance, and other times they disguise it.

A traveler is much more of a "exception" if they are a woman, with female travelers standing out among the others. The travel industry has historically been controlled by males, as seen by historical accounts. This trend has persisted until this day due to the perception that domesticity and femininity are related. For this reason, a lot of travelogues authored by women and people of color have emphasised the pursuit of self-awareness within the framework of marginalisation and injustice. The characters in books like "The Woman Warrior" by Maxine Hong Kingston and "The Autobiography of Malcolm X" examine their own identities and pasts in addition to the tragedies and difficulties faced by their local communities [13], [14]. By visiting other locations and interacting with individuals from different backgrounds and customs, students get a more profound comprehension of their own cultural background and the influence of privilege and power on their existence.

Although taking into account and highlighting outliers in the realm of travel writing may indicate a future in generalization, travel writing itself continues to resist such generalization. Travel writing is a very diversified, if not fluid, genre since each piece tells the story of a distinct traveler. Since the core of the genre is the pursuit of human-centered narrative, no experience is out of bounds. Thus, trips to a relatively simple farm or essays that explore a new city may both produce exceptional travel writing.

Rather of following the conventional theme of leaving home, the travel story of today helps to redefine home as an emotion as opposed to a physical location. Meeting others who share your perspective when visiting a new place makes you feel at home, as does being welcomed into the community by the residents. These unique experiences are what give travel its particular touch. The 'lists' you cross off are not what matter. The exceptionality of a person was brought to the forefront of travel tales when travel changed from mass tourism to exploration. How can one continue to be remarkable and worthy of reading at a time where maps are filled in and travel is easier to get there? Thus, originality and exceptionality may also be related, as can the exceptional and the unexpected. Actually, as Vivien put it, "any travel bears in itself something of a unique experience" and "one may travel to the same place and follow the same circuit, yet the adventure or event remains singular." Therefore, the journey is always special in and of itself.

## 2. LITERATURE REVIEW

*Lew* explored Tourism and travel experiences that play a significant role in fostering an expanded global awareness and consciousness, crucial for realizing sustainable development in our increasingly interconnected and swiftly contracting world. Consciousness represents a pivotal subject of theoretical inquiry and discourse across various disciplines such as neuroscience, philosophy, psychology, biology, quantum physics, and spirituality. These diverse fields provide valuable perspectives on how tourism contributes to the ongoing evolution of global consciousness. The findings highlight the necessity of a global consciousness to contextualize and envision solutions for the urgent challenges facing the world today. Serving as a platform for integrating sustainability at the individual level, it rationalizes the human inclination to travel as a means of expanding consciousness. Consequently, tourism emerges as a positive force capable of contributing to the creation of a genuinely sustainable future world. Proposing global consciousness as an 18th UN Sustainable Development Goal could provide a comprehensive, spiritual, and personal vision for sustainable development, a dimension currently lacking in existing goals. Travel and tourism would play a pivotal role in realizing this objective, positioning global consciousness as a non-dualistic visionary goal that holds the potential for more sustainable outcomes than the reductionist practices of past sustainable development approaches [15].

*Grimwood et al's.* paper undertakes an in-depth exploration and critical analysis of the role that wilderness travel can play in promoting environmental sustainability. Drawing insights from two qualitative studies centered on understanding human–nature relationships, particularly as experienced by diverse groups of wilderness travel leaders in Canada, the paper delves into the nuanced perspectives that emerged. According to the leaders involved in the studies, the wilderness experience amplifies emotional connections to nature, fostering a desire to cultivate similar connections among others, such as the campers or clients participating in wilderness trips. However, our interpretations reveal that leaders' perceptions of wilderness exhibit variability and ambiguity, and the emphasis on 'experience' may inadvertently reinforce prevailing discourses that dichotomize nature and culture. This paper thoroughly examines these complexities, shedding light on the potential of wilderness experiences to contribute to the individual and social transformations essential for addressing the imperatives of environmental sustainability [16].

*Godlewski et al.* adopted an exploratory approach, delving into specific historical narratives associated with road banditry in antiquity. It focuses on the methodological aspects of bibliographic information retrieval, employing modern search methods to expand and accumulate knowledge about the criminal risks faced by commuters from ancient times to the 19th century. The primary objective is to compare previously acquired data from autopsies with

information sourced from Google Scholar and EBSCO databases. The search for relevant research articles utilized keywords such as the history of tourism, cultural tourism, dangers of traveling, travel dangers, robbery, highwaymen, bandits, and robbers, with an emphasis on qualitative studies within these domains. This article aims to illustrate the methodology employed in conducting a comparative literature review on the subject of travel dangers in a historical context. To achieve this aim, the authors utilized various methods, including the historical method, historical fact-finding method, comparative method, and literature analysis and criticism [17].

*Dash and Sharma* aims to evaluate the competitiveness of Indian tourism aggregators utilizing the Analytic Hierarchy Process (AHP), a technique facilitating structured multi-criteria decisions, enabling both quantitative and qualitative comparisons among alternatives. The criteria for assessment encompass price, process efficiency, ease of access, and customer service. Tourism stands as a significant social phenomenon across global societies, propelled by the human pursuit of novel experiences, education, and entertainment. The widespread dissemination of education and advancements in communication technology have intensified the innate human yearning for fresh knowledge and diverse encounters, fostering an eagerness to explore different parts of the world. The landscape of tourism has undergone a revolutionary shift with the advent of tourism aggregators online platforms offering comprehensive services such as travel arrangements, accommodation options, and tour planning and booking.

These aggregators have not only minimized the costs associated with information searches but have also heightened tourists' awareness of potential destinations. This, in turn, has facilitated the emergence of innovative tourism trends, including eco-tourism, adventure tourism, heritage tourism, medical tourism, pilgrimage tourism, and more [18].

HOANG et al.'s study delves into the construct of loyalty to a specific destination, aiming to conduct a thorough analysis of socio-psychological factors influencing loyalty to ecotourism and proposing a methodology for their examination.

Through correlational, empirical, and sociological methods, the research establishes a direct correlation between loyalty and responsibility [19], satisfaction, positive experiences, psychological ownership, and the destination's image. The findings demonstrate that research engagement, intellectual preparation, motivation, respect for nature, cultural involvement, and local resident engagement positively impact the level of responsibility. Moreover, cultural involvement, nature preservation, psychological attachment, and social interaction contribute to a heightened sense of psychological ownership, in contrast to the diminishing effect of the massiveness factor of a location [20].

### 3. METHODOLOGY

#### 3.1. Design:

The primary research methodologies employed to investigate individuals' travel habits encompass both quantitative and qualitative approaches. Quantitative research involves elucidating reasons by collecting numerical data analyzed through statistics, whereas qualitative research aims to gather extensive information about a smaller group of individuals rather than relying on limited data from a larger sample. Regardless of the research type, whether quantitative or qualitative, data compilation was essential to draw conclusions and expound on the prevailing travel trends. This exploration seeks to unveil the current patterns in travel behavior, shedding light on the growing emphasis on sustainable travel practices, such as the burgeoning field of ecotourism. It also aims to understand the habits formed as individuals consistently align themselves with specific travel trends.

*3.2. Sample and Instrument:*

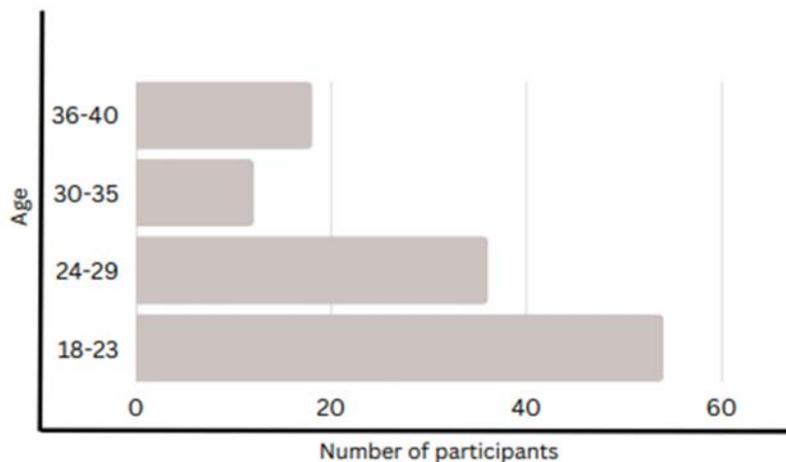
Regarding the quantitative research component, data collection involved gathering and organizing information in a statistical format. The primary research took place through two distinct formats: an interview with a travel industry expert and a respondent completion format. In the latter format, I opted to construct a questionnaire tailored for a specific group aligning with my target market a focused group to elicit their opinions on travel-related topics. This included inquiries about their travel planning methods, motivations for traveling, and other relevant aspects. Using Google Forms as the platform, the focused group shared their opinions and selected options that best reflected their perspectives. The questionnaire's design involved meticulous considerations to ensure survey accuracy. Questions were crafted to be easily comprehensible and unambiguous, aiming to prevent misinterpretation among respondents. To maintain objectivity, leading questions were consciously avoided. The questionnaire's structure facilitated easy recording of answers while remaining respondent-friendly, ensuring a comprehensive capture of individual opinions. The distribution method was personalized, aligning with the self-completion nature of the questionnaire, and targeted a specific demographic. The questions predominantly took the form of closed-ended queries, providing a range of alternative answers from which respondents could choose, contributing to the survey's efficiency and clarity.

*3.3. Data collection and Analysis:*

The majority of participants have displayed a profound interest in engaging with personalized travel content online, particularly in written form that recounts specific incidents experienced by individuals. This preference arises from the desire for authentic narratives that offer a genuine account of personal travel experiences, including vivid descriptions of what the traveler sees, hears, tastes, smells, and feels in the external world during their journeys.

Recognizing that thoughts, feelings, and reflections constitute integral aspects of the travel experience, narratives that delve into a traveler's inner world find a fitting place in this content medium. Moreover, readers also appreciate notes and observations on society and culture, as they contribute to a deeper understanding of the world, allowing readers to feel more informed before embarking on their own journeys. Despite the prevailing trend of consuming concise content, the survey findings underscore that travel readers prefer substantive, immersive stories real and unfiltered that transport them to the depicted moment and provide an escape to distant lands.

Q 1: Age of the participant.



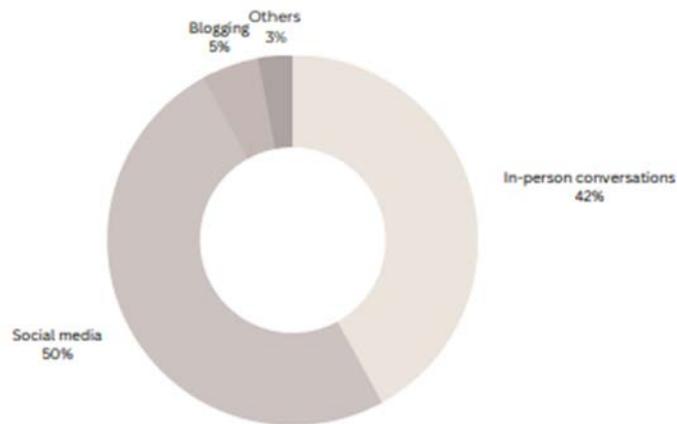
Q 2: Gender of the participant.



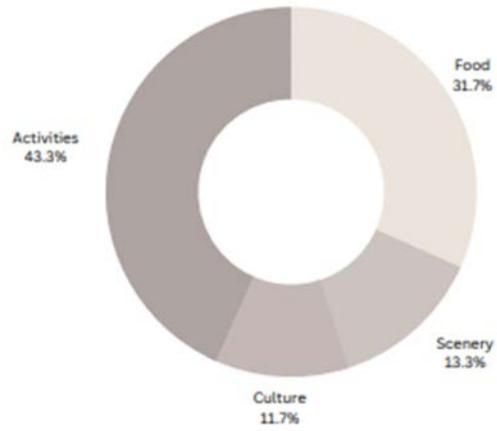
Q 3: Do you enjoy sharing your travel stories with others?



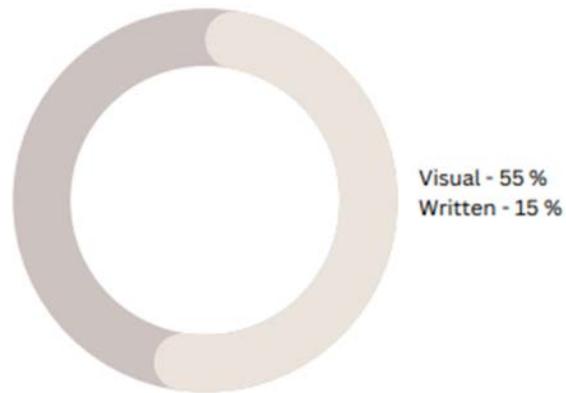
Q 4: How do you mostly share your travel stories?



Q 5: When consuming travel content, what aspect do you focus on the most?



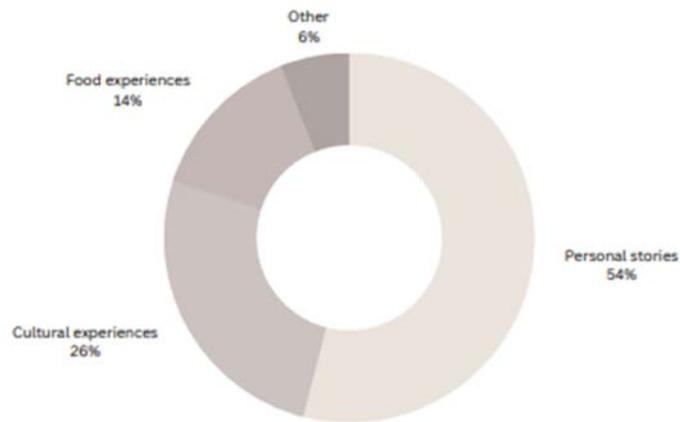
Q 6: Do you prefer to consume travel stories through written or visual media?



Q 7: Do you think that storytelling plays an important role in travel?



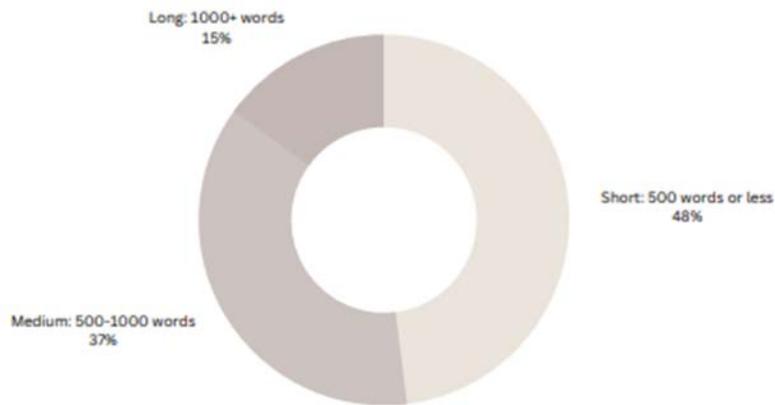
Q 8: What type of travel stories do you find the most interesting to read or listen to?



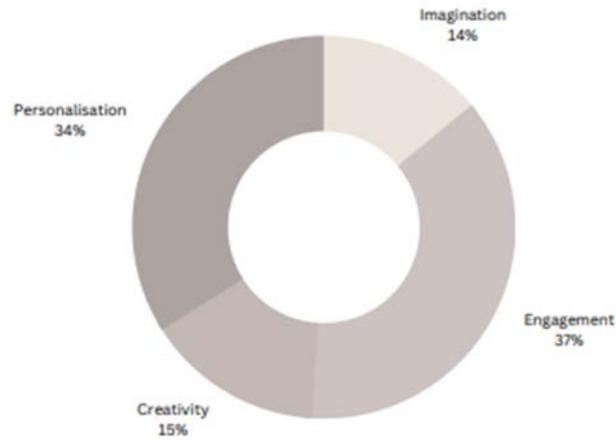
Q 9: Through what medium do you prefer to read travel stories?



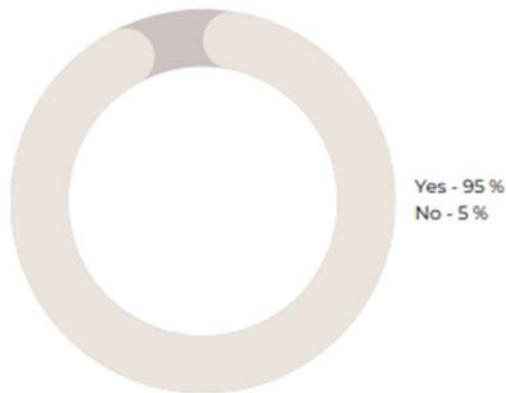
Q 10: What is your preferred length of a travel story?



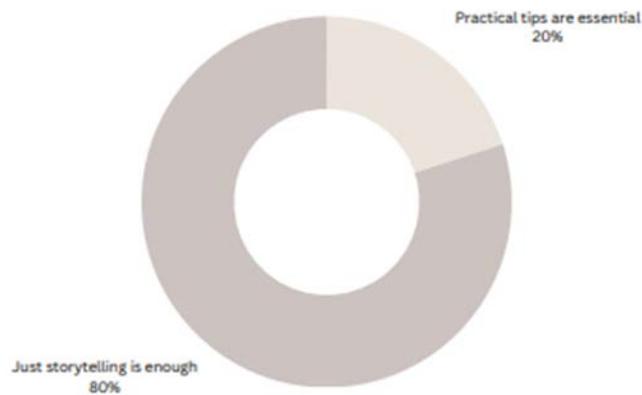
Q 11: Which of the following do you think is the most important element of storytelling?



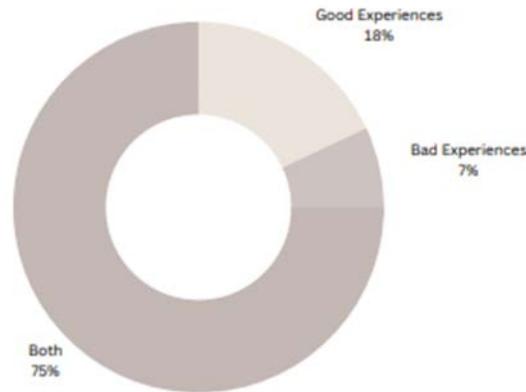
Q 12: Have you ever felt a connection with a person or place through reading a travel story?



Q 13: Do you think that travel stories should include practical tips or just focus on storytelling?



Q 14 : Do you prefer travel stories that focus on the good experiences or ones that include the negative experiences?



#### 4. RESULT AND DISCUSSION

The most significant portion is the result of my thesis research. I needed to collect as much information as possible to help me make a choice before deciding on the way I wanted to go, but I also had to think about how I would make it into a specialty. I started by creating a mind map using the Miro tool in order to completely observe the horizon and consider the potential results of my investigation. I put on this board the likely formats and platforms that I might utilize to share my material, along with the kinds of content that would be most compatible with the platform's algorithm. Additionally, I divided each of these concepts into smaller themes based on the gaps I saw on each platform and verified with the available data. I drew out result mock-ups for my top three selections and further reviewed them with my faculty members, but I was still unsure of my next move. We then carefully considered all of the possibilities, taking into account my resources, future prospects, areas of strength in my skill set, and the outcome of the execution. One of the biggest things this experience taught me was that, even with the right strategy and techniques in place, it's the execution that will provide the greatest outcomes. As I came to the decision to start a travel blog, I realized that the reason I was most pulled to this as my ultimate goal was its enormous potential, which still exists today.

The ability for travelers to offer genuine accounts of their experiences is one of the reasons why travel blogging is the way of the future for travel storytelling. I can utilize this platform to provide genuine insights into the places I visit and my experiences there, in contrast to conventional travel writing, which often focuses on commercialized and touristic encounters. My aim was to provide a relevant and human-centered viewpoint to the popular travel blogging domains. I also decided to write about my experiences instead of using Medium due of its worldwide readership and ease of use. Anyone with an internet connection may use this platform, unlike conventional travel journalism. A computer, a website, and a love of travel are all you need! Moreover, travel blogging offers a more participatory narrative format. Through email, social media, and comments, blog readers may communicate with me directly. This will make it possible for me to interact with the audience more directly and dynamically as the storyteller. This incredibly flexible kind of travel story will eventually provide me the audience and platform I need to launch a company.

#### 5. CONCLUSION

The art of travel storytelling, rooted in the timeless human tradition of narrative expression, necessitates a keen focus and sensory acuity. It involves the deliberate selection of details that engage readers' senses sight, taste, hearing, smell, and touch to effectively convey ideas.

Successful travel stories transcend the mundane, weaving narratives that navigate the intricate interplay between external landscapes and internal emotions. This thesis embarked on a personal journey to unravel the essence of storytelling within the realm of travel, exploring the human appetite for unadorned travel accounts, the emotional rollercoaster they induce, and the craft of armchair exploration. Aesthetic appeal, narrative structure, relevance to readers, and a profound connection to emotions emerged as pivotal factors shaping the future of travel narratives. The thesis argued that true understanding and absorption of a place require openness, forging powerful connections that become both the subject and outcome of exceptional travel writing. Crafting stories about places or individuals establishes a connection, and when executed skillfully, readers develop a parallel connection, contributing to a world infused with gratitude, tolerance, and kindness. The study's findings emphasized the significance of perceived aesthetics, narrative structure, and self-reference in travel storytelling, evoking positive emotional responses from readers and providing insights into the author's emotions and their behavioral consequences. On a personal level, the study illuminated the transformative potential of compelling travel narratives and underscored the influential role of travel storytellers in broadening perspectives on the world's vast wonders, instilling a ray of kindness and hope beyond physical boundaries. In a world with limited access to extensive travel experiences, storytellers shoulder the responsibility of transporting minds, offering a unique lens through which to appreciate the boundless richness of our shared human experience.

## REFERENCES

- [1] Y. Chiba en T. Nakayama, "Cultural immersion through international experiences among Japanese nurses: Present status, future intentions, and perceived barriers", *Jpn. J. Nurs. Sci.*, 2016, doi: 10.1111/jjns.12120.
- [2] E. E. Olumba, "The homeless mind in a mobile world: An autoethnographic approach on cognitive immobility in international migration", *Cult. Psychol.*, 2023, doi: 10.1177/1354067X221111456.
- [3] J. Poczta, N. Almeida, en E. Malchrowicz-Moško, "Socio-psychological functions of men and women triathlon participation", *Int. J. Environ. Res. Public Health*, 2021, doi: 10.3390/ijerph182211766.
- [4] R. C. Lois González en L. Lopez, "Liminality Wanted. Liminal landscapes and literary spaces: The Way of St. James", *Tour. Geogr.*, 2020, doi: 10.1080/14616688.2019.1647452.
- [5] D. R. Parveen, "A Technical and Stylistic Study of Travelogues", *DARYAFT*, 2023, doi: 10.52015/daryaft.v15i01.314.
- [6] J. Cao, J. Zhang, C. Wang, J. Sun, en M. Chen, "Exploring the essence of distance: A framework of distance desire and tourist destination choice", *Dili Xuebao/Acta Geogr. Sin.*, 2020, doi: 10.11821/dlxb202004014.
- [7] N. S. Mohd, H. N. Ismail, S. M. R. S. Jaafar, en N. Isa, "Experience co-creation of city visitors from the perspective of technological engagement", in *IOP Conference Series: Earth and Environmental Science*, 2020. doi: 10.1088/1755-1315/447/1/012002.
- [8] I. Batur, A. C. Dirks, C. R. Bhat, S. E. Polzin, C. Chen, en R. M. Pendyala, "Analysis of Changes in Time Use and Activity Participation in Response to the COVID-19 Pandemic in the United States: Implications for Well-Being", *Transp. Res. Rec. J. Transp. Res. Board*, 2023, doi: 10.1177/03611981231165020.

- [9] M. Suminto, “The Influence of Photography, Tourism, and Media on Self-Actualization”, *Art, Sci. Cult. Technol. Indones. J.*, 2023, doi: 10.24821/asctij.v1i1.10165.
- [10] I. Higgins, “The Witness and the Other World: Exotic European Travel Writing, 400-1600. Mary B. Campbell”, *Speculum*, 1990, doi: 10.2307/2864051.
- [11] K. Das, “Digital ‘Lakshman Rekhas’: Understanding the Impact of Safety Apps on Women’s Freedom of Movement in Urban Spaces”, *Glob. Perspect.*, 2021, doi: 10.1525/gp.2021.25608.
- [12] S. Martín, M. G. Romana, en M. Santos, “Fuzzy model of vehicle delay to determine the level of service of two-lane roads”, *Expert Syst. Appl.*, 2016, doi: 10.1016/j.eswa.2015.12.049.
- [13] D. Guttentag, “Transformative experiences via Airbnb: Is it the guests or the host communities that will be transformed?”, *J. Tour. Futur.*, 2019, doi: 10.1108/JTF-04-2019-0038.
- [14] J. De Vos, P. A. Singleton, en T. Gärling, “From attitude to satisfaction: introducing the travel mode choice cycle”, *Transp. Rev.*, 2022, doi: 10.1080/01441647.2021.1958952.
- [15] A. A. Lew, “The global consciousness path to sustainable tourism: a perspective paper”, *Tour. Rev.*, 2020, doi: 10.1108/TR-07-2019-0291.
- [16] B. S. R. Grimwood, A. Haberer, en M. Legault, “Guides to sustainable connections? Exploring human–nature relationships among wilderness travel leaders”, *J. Adventure Educ. Outdoor Learn.*, 2015, doi: 10.1080/14729679.2013.867814.
- [17] P. Godlewski, P. Ciszek, R. Mruczyk, en D. Skalski, “The Dangers of Travel—Banditry on the Roads: The Bibliometric Study of the Retrospective Literature”, *Sustainability (Switzerland)*. 2022. doi: 10.3390/su142416944.
- [18] M. Dash en K. Sharma, “Competitive Analysis of Indian Tourism Aggregators Using Multi-Criteria Analytic Hierarchy Process”, *Int. J. Mark. Bus. Commun.*, 2018.
- [19] W. Y. Chen, Y. H. Fang, Y. P. Chang, en C. Y. Kuo, “Exploring motivation via three-stage travel experience: how to capture the hearts of Taiwanese family-oriented cruise tourists”, *Humanit. Soc. Sci. Commun.*, 2023, doi: 10.1057/s41599-023-01986-3.
- [20] S. D. HOANG, N. T. NGO, D. T. N. NGUYEN, T. T. H. NGUYEN, en Z. TUČKOVÁ, “The Determinants of Loyalty to Ecotourism against the Background of Consumer Satisfaction”, *J. Environ. Manag. Tour.*, 2022, doi: 10.14505/jemt.13.8(64).22.

## CHAPTER 2

### SHAPING FUTURES: A COMPREHENSIVE EXPLORATION OF THE HISTORY AND EVOLUTION OF JUVENILE JUSTICE

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#### ABSTRACT:

The word 'Juvenile' has been derived from the Latin term 'juvenal' meaning thereby Young. The term 'delinquency' has also been derived from the term do (away from) and liqueur (to leave). The Latin initiative "delineate" translates as to emit in its original earliest sense. Juvenile justice refers to the legal and social framework designed to address the legal rights, rehabilitation, and treatment of individuals who are considered minors and have committed offenses. This specialized branch of the justice system acknowledges the unique status of juveniles, recognizing their developmental differences from adults. Historically, juvenile justice systems aimed at rehabilitation rather than punishment, focusing on the notion that young offenders could be positively influenced and reintegrated into society. The juvenile justice system offers several benefits aimed at addressing the unique needs and circumstances of young offenders. One primary advantage lies in its emphasis on rehabilitation over punitive measures. Recognizing the developmental differences between juveniles and adults, juvenile justice endeavours to provide tailored interventions, educational opportunities, and counselling to guide young individuals away from a life of crime. Moreover, this approach aims to prevent the detrimental effects of incarceration on juvenile offenders, promoting their reintegration into society and fostering positive behaviour.

#### KEYWORDS:

Delinquency, Delineate, Juvenile, Juvenal, Justice.

#### 1. INTRODUCTION

The word 'Juvenile' has been derived from the Latin term 'juvenal' meaning thereby Young. The term 'delinquency' has also been derived from the term do and liqueur. The Latin initiative "delineate" translates as to emit in its original earliest sense. The term 'Juvenile justice' was used for the first time by the legislature of the state of Illinois, USA, in 1899, while passing the Juvenile Court Act. The reason for making an abiding law was that juvenile offenders should not be given the same punitive treatment as adults but instead should be given individual attention and rehabilitation that not only protects them but also protects society. "In India, most statutory provisions have followed the British pattern. The English idea of providing separate treatment for juvenile offenders was passed on to India in the last quarter of the nineteenth century. The Apprentices Act, of 1850 is chronologically the first law meant to deal with children in distress that are to be trained for trade and industry. Even penal laws such as the Indian Penal Code, of 1860 exempts children under the age of seven years from criminal responsibility (Section 82). It also exempts children between the age of seven to twelve years, who have not attained sufficient maturity of understanding to judge the nature and consequences of their conduct, from criminal responsibility (Section 83). The Act also provides some protection to the children from the evil designs of the adults (Section 363-A). The Reformatory School Act enacted in 1876 and later modified in 1897, was the next landmark legislation in the treatment of juvenile delinquents. It empowered the local government to

establish reformatory schools. Figure 1 Illustration The world's first official juvenile court and detention center was built in Chicago at Halsted and Ewing streets [1], [2].



**Figure 1: Illustration The world's first official juvenile court and detention center was built in Chicago at Halsted and Ewing streets.**

Under the Act, the sentencing court could detain boys in such institutions for a period of two to seven years but they would not be kept in the reformatory schools after they had attained the age of eighteen years. There was also a provision to license out boys over fourteen years of age if suitable employment could be found.” While the previously mentioned acts were made to keep the best interest of juvenile offenders safeguarded, the Convention adopted by the UN in 1989 led to changes. Changes that were believed to safeguard these children even more. “The Convention states that to protect the social reintegration of juveniles, there shall be no judicial proceeding and court trials against them.” This led the Indian Legislation to make a new law and thus in 2000. The Juvenile Justice Care and Protection of Children Act came into being. The above-mentioned Act consists of 63 Sections, and 7 Chapters, and is extended to the whole of India except to the State of Jammu and Kashmir. The primary purpose of the Act was to provide care and protection, treatment, development and rehabilitation of the neglected juvenile delinquent.” Years later, the Juvenile Justice Act of 2015 replaced the Juvenile Justice Act of 2000. It is said that there was a need for a more robust, holistic, and effective justice system that focused on deterrent as well as reformative approaches [3], [4].

### *1.1. Juvenile Crime in India:*

Juvenile delinquency is one of the most complicated problems of our time. In its most basic essence, it's anti-social behavior -iron. The different forms of delinquent behavior include loitering, loafing, pick-pock-eating, stealing, gambling, sexual offenses like eve teasing, etc. The rate of delinquency - cy is rising fast all over the world. In a developing country - try like India, the crime rate among juveniles is increasing year by year. Most analysts say that the number of factors for neglect and delinquency are interrelated based on socio-economic and psychological reasons. Poverty, broken homes, family tension, emotional abuse, rural-urban MigraTion, breakdown of social values and joint family system, atrocities and abuse - es by parents and guardians' faulty educational system, the influence of media besides the unhealthy living conditions of slums and other conditions explain the phenomena of juvenile delinquency. A major chunk of the reason for juvenile delinquents, as per statistics, is the neglect of these children by their parents. It is said to create harmful effects on their physical, and mental growth and overall development. “No child is ever born as a criminal. It might be their surroundings, the peer group, improper socialization, and lack of parental care, which potentially and substantially give rise to delinquent behavior among children. Child development is not only

known by taking care of the basic biological needs of the children but also providing them an environment for proper socialization and extra development for the child. “The problem of juvenile delinquency is not new. It occurs in all social - ties simple as well as complex, that is, wherever and whenever a relationship is affected between a group of individuals leading to maladjustments and conflict.”<sup>5</sup> For the past three years, Maha-Rashtra has been recording the highest number of murders, rioting, and robberies by juveniles [5], [6].

### *1.2. Juvenile delinquents & their background:*

More often than so, we’re always strung with anger and discontent when we hear of any kind of crime committed or harm posed to one human being by another. We question their actions and have no room for empathy/sympathy for them and we feel so with all good reason and it usually does not matter if it’s a child or an adult. Similarly, when we talk about juvenile offenders, things that they do, which are legally wrong, are obviously out of bounds but might just be the most normal thing to them because they have not been told, educated, or for that matter, may not have even grown up seeing otherwise. A lot of times, we find ourselves thinking about what went on in a 15-year-old boy’s head to take a knife and stab somebody with it. We always look for definite answers to things, but unfortunately, this domain is far more complicated than just one particular reason for acting in an anti-social way. However, a really important aspect of this dimension is one’s background. As mentioned earlier, we all have our own set of insecurities and how we act upon them depends from person to person.

One thing that creates a stark difference in behavior would be one’s socioeconomic background, parental influence, culture, the kind of education one receives, and the kind of environment physical, social, and emotional that one comes from. Having said that, to reiterate, these are not the only factors but are more or less dominant contributing factors. Two people could come from the same background keeping in mind all of the above-mentioned factors but still have very different insecurities and their ways of acting on it. This brings us to the age-old wolf’s tale that represents the two wolves that every person has in them. In this short metaphorical story, a grandfather describes to his grandson his internal battles by explaining that two wolves are fighting within him with one being good and the other being evil. His grandson then asks which wolf wins, to which the grandfather replies, “The one you feed.” Now while it is easy for us to point out that we must feed the good wolf, it isn’t always the easiest to practice that. We need the right kind of education, environment, and stimulation social and emotional to name a few, to do so [7], [8].

### *1.3. Observation Homes in India:*

In 2016, the escape of 33 juvenile offenders from an observation home in Chennai raised a lot of questions about the efficacy of the juvenile justice system in the country. “Correctional health professionals have reported that both the number and the acuity levels of inmates with mental health disorders are rising even in systems where the delinquent population at large is declining. In some countries, there are more people with severe mental illness in correctional facilities than in mental health institutions. While a large reason for this is the judicial system that is in place, even the lack of initiative in design for their environment is a barrier to any kind of recovery, whether it is an inmate suffering from a mental illness or not. It is just not feasible to expect individuals to become healthy in an unhealthy environment. Observation Homes in India Irrespective of the crime committed, every person deserves our respect and our best practices. As justice planners, architects, and design practitioners, it is our responsibility to continually evolve the way we design spaces to better serve those who occupy them, particularly the disenfranchised [9], [10].

In the context of India, the law for adult criminals and those less than 18 years of age is different and is governed by a lot of factors. Juvenile offenders, either ask the child to go through counseling, fine the parents of the child, ask the child to do community service, release the child on probation subject to good conduct, or direct the child to live in a special home for not more than three years. In most cases, directing the child to live in a special home to correct their way of thinking and criminal behavioral patterns is suggested or advised by specialists. However, the conditions of these homes are not ideal and favorable for any kind of growth or rehabilitation. “There is a great need for these homes to provide educational activities and training to the kids living there, as the homes do not have any structured activity for them, it ultimately leads to no improvement. There’s this saying ‘an idle mind is a devil’s workshop’, so there is a dire need to carry out proper rehabilitation of juvenile offenders and build infrastructure where informal systems like voluntary organizations, families, and communities are involved and the whole system is transparent enough, is when we can help the juvenile offenders learn a lesson and work towards living a better life once they are out.”

## 2. LITERATURE REVIEW

A. Dent et al. [11] the study explored This meta-review integrates the findings of meta-analyses and systematic reviews to explore the effect of intervention programs on recidivism for juvenile offenders. Methods: The systematic literature search gathered 48 meta-analyses and systematic reviews from 53 research reports, contributing 56 independent effect sizes for analysis. These effect sizes were statistically integrated, and five moderators of theoretical and methodological importance were tested using meta-regression. Results: On average, intervention programs are associated with a significant reduction in recidivism for juvenile offenders who participate in a program compared to those who do not. However, reductions in recidivism significantly vary between the levels of the criminal justice system, characteristics of juvenile offenders, types of program modalities, and methodological quality. Conclusions: Results indicate that intervention programs can be an effective approach to reducing recidivism for juvenile offenders, especially when combined with a rehabilitative program modality.

N. Papalia et al. [12] the study focused on the This study explored the intersection between Indigenous status, gender, and age in law enforcement responses to offending in 53,632 first-time juvenile offenders in Australia. Findings demonstrated that Indigenous offenders were more likely to receive a court summons rather than a diversionary alternative following their first offense compared with non-Indigenous offenders when controlling for gender, age, and the nature and number of charges processed at the first offense. No interactions were observed between Indigenous status, age, and gender. Indigenous status predicted receiving a court summons; however, the strength of this relationship diminished when offenders had one-to-two violent charges and when offenders’ first contact occurred after the commencement of the Young Offenders Act 1997 (NSW), which formalized police responses to diversion. Stronger efforts are needed to prevent initial justice system contact and formal processing among Indigenous youth with a focus on community-led early intervention strategies.

A. Rogers et al. [13] the study focused on Human Behaviour in a Social Environment HBSE, also referred to as Human Behaviour and the Social Environment is a broad topic that often comprises entire courses or academic degrees. It is a foundational aspect of social work, and its topics apply to multiple fields of medicine. As the term itself implies, HBSE seeks an understanding of human behavior and all of the contributors to and characteristics of human behavior; the social environment and different levels and systems of this environment; and the interface between them.

J. Watson et al. [14] study explored This systematic literature review synthesizes available empirical studies exploring the challenges experienced by transgender youth within juvenile justice contexts and systems responses to them. The review followed PRISMA guidelines and searches were conducted in five academic databases from January 2000 to December 2020. Four qualitative articles met the inclusion criteria for review. Further research must be pursued to elucidate the lived experiences of transgender youth in juvenile justice systems. The juvenile justice system's responses in providing for the unique health, social, and psychological needs of this vulnerable, carceral population are necessary to influence and guide best practice policies and procedures.

P. Haveri Pet et al. [15] the study focused on the As per the statistics available, there are 10.2 juvenile offenders per 1 black population in the world. In India, the percentage of recorded juvenile crimes is about 0.9 to 1 % of total crimes. Juvenile delinquency is one of the burning issues all over the world. The paper has been designed to explore the causes, consequences, and diversity of criminal activities by juvenile delinquents. The sample has been selected purposively and the social survey method is used to collect data. It is revealed from the study that, no particular reason is responsible for juveniles' delinquency-a variety of reasons are responsible for this. Lack of proper family control, conflict in the family, the situation of a residential area, the impact of movies, etc. are equally responsible for juvenile delinquency. Several juveniles are incapable of maintaining their basic needs and getting proper recreation from their family. Consequently, they are involved in many antisocial activities to fulfill their basic needs and recreation through earning money.

S. Synder et al. [16] the study explored Youth involved in the juvenile justice system face a multitude of challenges and have many psychosocial needs that span across different contexts and service systems. Practitioners working within the juvenile justice population may thus struggle to determine how to navigate such needs and provide effective care. This article describes how the application of Bronfenbrenner's ecological systems theory may be particularly useful in elucidating therapeutic considerations for working with juvenile justice-involved youth. We provide descriptions of each subsystem within Bronfenbrenner's model and how they relate to the unique needs of justice-involved youth, provide a case example to illustrate relevant interventions within each subsystem that focuses on existing setting strengths, and end with practitioner recommendations to address psychological well-being with the juvenile justice population

### 3. DISCUSSION

#### 3.1. Human Beings and Design:

In the previous chapter, a need to include design as a contributor to rehabilitation was highlighted. A rampant increase in interest in the intersection of neuroscience, psychology, and architecture helps to offer inspired insights into the design of spaces. This interdisciplinary approach to design aims to motivate the development of environments that would contribute to peoples' flourishing in behavior, health, and well-being. In very interesting research conducted, the importance of first understanding, at a very basic level, the psychological effects of certain stimuli on the brain was highlighted. It made us aware of how that will help us understand the impact of architecture and interior design on humans psychologically. During evolution, human brains have evolved in a more sophisticated manner compared to other mammals. The human forebrain for example, which is the center of executive thinking, planning, and emotion is disproportionately larger than that of other mammals. However, the more primitive portions of the brain and brainstem still function in a very similar manner to that of other mammals; specifically, those areas are still designed and function in a way that helps us survive and pursue

pleasure. In its most simplistic form, survival is predicated on the pursuit of shelter, food, and mating. In the modern world, because we have no natural predators, survival has taken on a different; fewer objectives meaning which now varies across demographics, social class, and geographical location. Pleasure on the other hand has, for the most part, held the same meaning for the past 200,000 years or so. Pleasure is a feeling of happiness, satisfaction, and enjoyment. How this feeling can be achieved, however, is subjective and has changed as our interests as humans have evolved and our available resources have changed. Evolutionarily, human brains have been encoded to associate a sense of pleasure with objects and places that increase our chances of survival [17], [18].

Our body consists of the autonomic nervous system, which is further divided into two parts: the simpër thetic and parasympathetic nervous systems. Those two systems, and how they respond to stress were crucial to our ancestor’s survival. When mammals experience danger the sympathetic division of the autonomic nervous system jumps into action raising heart rate and blood pressure, and opening lung airways to improve breathing. These changes result from the release of adrenaline and norepinephrine, followed by cortisol to slow the bodily functions that are not necessary for survival.

This is the fight or flight response that evolved in mammals to increase the chances of survival in response to threats. Once the threat has been neutralized either through fight or flight, the parasympathetic nervous system kicks into action. The parasympathetic system works to return the body to its resting state, returning digestion to its normal levels, and reactivating various routine metabolic processes.

While the connection between these working systems and the psychological effects of architectural and interior design on the human brain might not be immediately apparent, the two play a very important role when it comes to stress regulation in the modern human. Modern-day humans experience stress very differently than our ancestors and other mammals. Stress for our ancestors came primarily from threatening factors that were out of their control including predators and inclement weather.

The combination of modern humans no longer having natural predators and the ready availability of shelter that protects us from the natural environment has not only allowed us to advance intellectually, it has also radically changed our stressors. Stress can come from virtually anything and differs greatly from person to person. Regardless of the source, our bodies today react to stress in the same manner as when it was a matter of life and death for our ancestors: the sympathetic nervous system kicks in and all functions that are irrelevant to immediate survival are slowed. Unlike the episodic stresses our ancestors faced, our stress is problematic because many stressors never go away, and our bodies spend too much time in survival mode at times when our survival is not even remotely at stake [19], [20].

Now that we have understood the relationship between design and human beings, it is imperative to understand the correlation between design and psychology. The project stresses understanding the relationship between the two because good design is centered on human beings and their affinity towards a space based on the relations and associations they build with the space. In context with our target group, juvenile delinquents, it is important to closely understand how a space can aid their development and help them reintegrate back into society. “The relationship between design and psychology is not only consequential, it is bidirectional. On the one hand, successful design has been shown to have clear psychological and physiological impacts; on the other, Psychology, human experience, and the function of our neurological systems all play a significant role in what we perceive to be successful design.” It

is often said that our environment is nothing but an extension of our nervous system. In many ways, it is our extended mind. Every time one feels that their mental illness or health is deteriorating, they should take a look at their environment.

While crafting an experience is truly new age, and rightfully vital, focusing on one's story and the environment's purpose can craft profound connections, with one's self and the others. Usually, children who indulge in anti-social behavior are the ones who are the least connected with themselves and the ones around them, to put it simply. So, a design with intentionality that helps provide what is intended to do even when humans try to hide and put up walls is needed. When the built environment impacts individuals, the individuals become key collaborators in the creation of community health. According to various studies, living in an urban setup has proven to be detrimental to one's mental health. There is a constant feeling of being lost and disoriented in most cities. A major reason for that is the poignant lack of social bonding that our city designs have led to. Focusing on the words "lost and disoriented", again takes us back to the juvenile delinquents who very often don't have any solid guidance from their social environment, which can lead to them feeling these certain thoughts. Just like urban setups do not cater to social bonding, these homes don't entirely focus on it as well and it is something that should be kept in mind to help foster relationships.

Another important observation is that our society is full of situations where we can work with human instincts and flaws and create a huge impact. Just to make this easier to understand, let's illustrate an example at a grocery store, when we spend all of our energy thinking about what to make for dinner or buying the necessary ingredients for the preparation of dinner, we end up low in blood sugar and that is why candy is always at the end of the store, usually near the cashier. This is an age-old supermarket tactic that is being used to tackle the possible occurrence of low blood sugar. A key point to take note of would be sensory deprivation. Sensory deprivation is as bad for the brain as the lack of stimulation is for our muscles. If one does not stimulate their brain, it will lose its plasticity and shrink, and to fight that, your brain can start hallucinating. Keeping in mind diminishing marginal utility, apply the same concept to space and reflect on whether the same space all day long would be beneficial in any way. Not having any activity, even for a few days, with energetic children is a sure recipe for disaster. In a study conducted by Eller, it said: "The Holy Grail in urban design is to produce some kind of novelty or change every few seconds, otherwise, we become cognitively disengaged." Such disengagement is undesirable from a psychological perspective; studies conducted by Merrifield and Danckert suggest that even small amounts of boredom can induce stress.

### *3.2. The Panopticon Prison:*

Seeing without being seen was developed by Jeremy Bentham, a savant from the eighteenth century who had imagined the intricate jail geography and considered it as an ideal jail system. The idea was to allow a maximum number of prisoners with a minimal number of guards. The arrangement comprised a huge round working, with a few levels, that emitted an alarming but great feel to the individuals present inside the space. The cells were set around in such a structure, that the watchmen had the option to see every cell without being seen themselves. The complete structure is separated into two principal classifications: spaces for prisoners also, spaces for the staff. One cell involves a solitary detainee, a little window, a functioning work area, a latrine, and a bed. The conditions could expect something better; each cell has a two-door entry; the entryway confronting the cell is made of metal: nonetheless, the exterior entry is made out of wood. Around the cells is a guardrail, which isolates the open-to-underneath region from the tight winding hallway. A portion of the cells can be viewed as having plasters, enlivened dividers, parquet flooring, and higher roofs, which could imply that the jail had various cells as indicated by the status or the order of a detainee. The stays of the broken-off

paint emit a similar vibe as patina shaping on metal. Besides, iron bars, steel, and glass feature the cold and brutal climate that waits inside the space. Each watchman can see two stories immediately and 96 detainees all at once. Thus, the office can enlist less staff and save up that money. Likewise, the construction is responsible for keeping everything under control inside the jail climate and limiting the pressure caused among the inhabitants, as prisoners have no admittance to one another. Plus, the electrical wires are fixed to the dividers and are presented to the outside. This could prompt a fire to happen, forcing risk to the inhabitants of the space [21], [22].

### 3.3. *Juvenile Home for Boys, Tirupati:*

Their vision was that every Juvenile's quality of life is equal to that of other people in the country, and they should be encouraged to live independently to the greatest extent possible. The detention center was founded in 2006 and is operated independently by the Indian government's Juvenile Justice Board. Objectives: Developing appropriate models of treatment and recovery for juveniles that are suitable to Indian conditions is one of the objectives of the juvenile home. -Inspire juveniles to contribute to society constructively and peacefully. -Assist juveniles with education and vocational training when appropriate. Active spaces have included an observation home, a children's home, a play area, as well as roads and paths. Parking lot's overhead tanks mitigate the land connection between active and passive spaces in passive space. There is a severe lack of cohesion between active and passive spaces. There was no adequate sanitation in the houses. Even though yoga and meditation are available, mental therapy is needed for juveniles. According to the workers, they believe that further provisions, such as medical checkups and separate housing for juveniles based on age group, as well as landscaping and play areas, would make them happier.

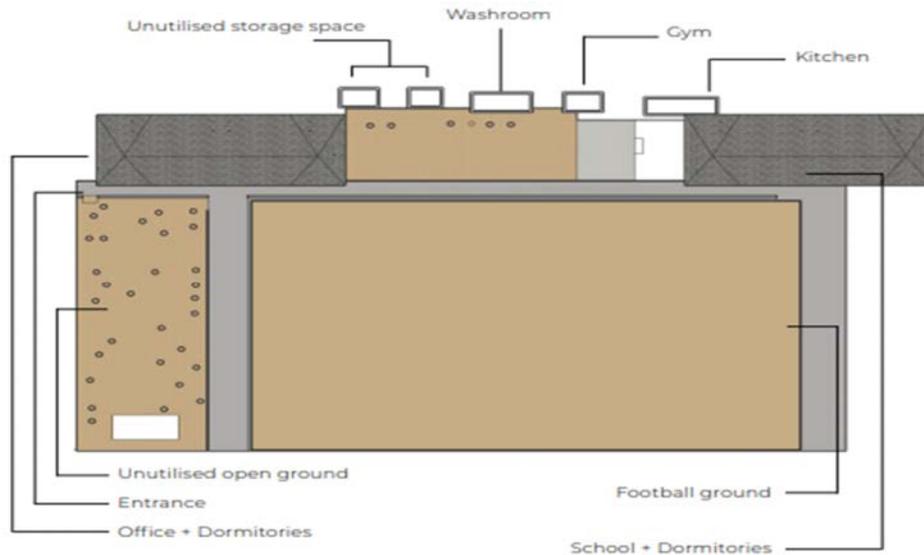
### 3.4. *Storstorm Prison, Denmark:*

The entire institution is 32000 m2 and provides occupants with their basic needs as well as much more. The addition of an indoor and outdoor basketball court, artwork in the corridors, bright colors, tall windows, and a barrier-free environment validates positive behavior and lowers recidivism rates among inmates. Snowstorm's central concept emphasizes the importance of positive communal interaction and expression through art. Inmates are exposed to a variety of environments, including outdoor, indoor, and off-site settings. According to CF Moller, the architecture firm that designed the building, the main goal was to mimic the atmosphere of a village or a section of a town. To summarise, the institution is a city within a city, where inmates can maintain their citizenship and religious practices. Sharp or angled furniture is replaced with soft, rounded, organic shapes to avoid the possibility of self-harm. Each cell has a shower, toilet, work desk, television, and a closet. The institution provides inmates with a strong sense of belonging and comfort by involving them in a variety of activities, workshops, and positive social communication. The irregular layout resembles a village and prevents a rote rehearsed method of detention. The presence of natural daylight and exposure to biophilia have a significant impact on the psychological well-being of space. Inmates are free to cook for themselves, visit a garden, or participate in one of the on-site sports facilities. However, it is important to note that there is strict segregation between staff and inmates, even though both groups have access to the same types of facilities. Furthermore, the building's rural location makes it difficult for family visits to occur regularly.

### 3.5. *David Sassoon Children's School, Matunga:*

David Sassoon Industrial School, established in 1843, is run by the Children's Aid Society. Located in a heritage building in the suburbs of Mumbai, this school is a residential facility for children who are convicted by the court or referred by the court for delinquency or observation.

The premises are centrally located at Mahim and the office. The total area of the premises of the institution is 32164 sq. Meters (6 Acres). This comprises the dormitories, classroom, community center, healthcare center, and industrial training school. Along with this, they have a football ground and an unused ground as well. The main reason for choosing this site would be for the simple reason that it was not a mere juvenile prison for hardcore delinquents. In Figure 2 shown the David Sassoon Industrial School, Established In 1843, Is Run by The Children’s Aid Society.



**Figure 2: Illustration The David Sassoon Industrial School, Established In 1843, Is Run by The Children’s Aid Society.**

It is far from that. It is, in fact, a formal education and vocational training center with an emphasis on character building. Reformation of Juvenile delinquents on the one hand and total physical, mental, and emotional development on the other are the most important functions of the school.

### 3.6. Design Development:

As designers, of juvenile delinquents and the special homes they live in for x number of years, it is not in our capacity to decide what they do and when they do. It is a decision taken by the government, planners of the judicial system, and several NGOs that are well-equipped to make informed decisions about the same. However, what we can do is decide how it is that they do everything that is planned for them. Hence, the design brief - Allows the design to act as a catalyst for the overall development of these children in the observation home by carefully planning and designing spaces for the already enlisted activities for them and making that learning/experience more efficient.

## 4. CONCLUSION

While the vision for these children is to help them in the best way possible through design, recognizing the background they come from, the background that they will be going back to, and the budgetary constraints of a space like this is important. The nature of this space has an involvement of the different stakeholders much more than the user itself and it requires a lot of contribution from other professionals than just the designer itself. As mentioned earlier, the issue of juvenile justice in our country is so much more systemic than anything else but the

lack of design is also a factor. This was a small attempt to at least stir a conversation if anything and let people know that - In the end, good design is just the beginning.

**REFERENCES:**

- [1] M. A. MIRZOYAN, “Evolution of juvenile justice in the Russian legislation of the 20th century,” *Curr. Issues State Law*, 2022, doi 10.20310/2587-9340-2022-6-2-158-166.
- [2] E. C. McKee and L. Rapp, “The current status of evidence-based practice in juvenile justice,” *J. Evid. Based. Soc. Work*, 2014, doi: 10.1080/10911359.2014.897099.
- [3] M. Chávez-García, “Book review: Barry C Feld, *The Evolution of the Juvenile Court: Race, Politics, and the Criminalizing of Juvenile Justice*,” *Theor. Criminol.*, 2019, doi: 10.1177/1362480618775863.
- [4] A. Shaikh, “Analysis of the Juvenile Justice System in India,” *SSRN Electron. J.*, 2020, doi: 10.2139/ssrn.3598979.
- [5] L. S. Abrams, “The Evolution of the Juvenile Court; Race, Politics, and the Criminalizing of Juvenile Justice,” *Contemp. Social. A J. Rev.*, 2019, doi: 10.1177/0094306119828696k.
- [6] E. S. Scott and T. Grisso, “The evolution of adolescence: A developmental perspective on juvenile justice reform,” *J. Crim. Law Criminol.*, 1997, doi: 10.2307/1144076.
- [7] A. V. Merlo, P. J. Benekos, and W. J. Cook, “Waiver and juvenile justice reform: Widening the punitive net,” *Crim. Justice Policy Rev.*, 1997, doi: 10.1177/088740349700800202.
- [8] P. M. Renfro, “The Evolution of the Juvenile Court: Race, Politics, and the Criminalizing of Juvenile Justice by Barry C. Feld,” *J. Hist. Child. Youth*, 2019, doi: 10.1353/hcy.2019.0011.
- [9] S. Engel, M. Deignan, and M. Rozalski, “A Review of: ‘Juvenile Justice: Redeeming Our Children, by Barry Krisberg’ ” *Read. Writ. Q.*, 2008, doi: 10.1080/10573560701808650.
- [10] V. Kumari, “4. Juvenile Justice in India,” in *Juvenile Justice in Global Perspective*, 2016. doi: 10.18574/nyu/9781479826537.003.0004.
- [11] L. N. Pappas and A. L. Dent, “The 40-year debate: a meta-review on what works for juvenile offenders,” *J. Exp. Criminol.*, 2023, doi: 10.1007/s11292-021-09472-z.
- [12] N. Papalia, S. M. Shepherd, B. Spivak, S. Luebbers, D. E. Shea, and R. Fullam, “Disparities in Criminal Justice System Responses to First-Time Juvenile Offenders According to Indigenous Status,” *Crim. Justice Behav.*, 2019, doi: 10.1177/0093854819851830.
- [13] A. T. Rogers, *Human Behavior in the Social Environment*. 2022. doi: 10.4324/9781003195542.
- [14] J. Watson, I. Bryce, T. M. Phillips, T. Sanders, and A. Brömdal, “Transgender Youth, Challenges, Responses, and the Juvenile Justice System: A Systematic Literature Review of an Emerging Literature,” *Youth Justice*, 2023, doi: 10.1177/14732254231167344.

- [15] P. Haveripet, "Causes and consequences of juvenile delinquency in India," *Sci. Technol.*, 2013.
- [16] S. E. Snyder and J. E. Duchscher, "Revisiting Ecological Systems Theory: Practice Implications for Juvenile Justice Youth," *Transl. Issues Psychol. Sci.*, 2022, doi: 10.1037/tps0000324.
- [17] B. Krisberg, "Kids in Court," *Contemp. Psychol. A J. Rev.*, 1989, doi: 10.1037/030647.
- [18] S. J. Fox, "Juvenile Justice Reform: An Historical Perspective," *Stanford Law Rev.*, 1970, doi: 10.2307/1227960.
- [19] A. V. Merlo and P. J. Benekos, *Reaffirming juvenile justice: From Gault to Montgomery*. 2017. doi: 10.4324/9781315111216.
- [20] T. E. Feucht and J. Tyson, "Advancing 'What Works' in Justice: Past, Present, and Future Work of Federal Justice Research Agencies," *Justice Eval. J.*, 2018, doi: 10.1080/24751979.2018.1552083.
- [21] A. W. Cohn, "The Future of Juvenile Justice Administration: Evolution v. Revolution," *Juv. Fam. Court J.*, 1994, doi: 10.1111/j.1755-6988.1994.tb01472.x.
- [22] M. Ajzenstadt and M. Khoury-Kassabri, "The cultural context of juvenile justice policy in Israel," *J. Soc. Policy*, 2013, doi: 10.1017/S004727941200058X.

## CHAPTER 3

### **PRESERVING NAGA ORAL TRADITIONS: A VISUAL NARRATIVE APPROACH TO SAFEGUARDING RICH FOLKLORE**

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#### **ABSTRACT:**

This story tells the story of an orphan who is abused by the community. He later won the sympathy and admiration of a young woman. She then asked for help and transformed into a Hornbeak using her ornaments and clothes.

She flies away but he tells her to find him. He was heartbroken. He turned into an orphaned bird, cursed his birth mother with his feces, and blessed his bride and wife with feathers to bring good luck. Preserving oral traditions in the face of the evolving digital landscape is increasingly crucial.

As the world becomes more visually oriented, there is a constant struggle for attention. In response, I aim to convey the essence of traditional narratives through a compelling blend of visual storytelling and interpretation. Exploring the rich tapestry of oral traditions, particularly folktales, I discovered the fascinating phenomenon of multiple versions of the same story. Engaging in discussions with local elders revealed subtle variations influenced by regional nuances or dialects.

Among the diverse Naga tribes, a wealth of oral traditions, including songs, poetry, tales, and sayings, exists. Recognizing the imminent risk of these traditions fading away with time, documenting them has become imperative.

Much has already been lost, and only a handful of individuals continue to sing or narrate these invaluable cultural treasures. This project aims to contribute to the safeguarding of these oral traditions, ensuring their preservation for future generations amidst the challenges posed by the digital era.

#### **KEYWORDS:**

Community, Naga Society, Plight, Preservation, Traditional Narratives.

### **1. INTRODUCTION**

The story depicts the plight of orphans in the Naga society with its ugliness and poverty. There are also many foster families in the society.

When a parent dies, the child is often adopted by relatives or members of the same clan. Children in foster care are often subjected to abuse. Supernatural beliefs and magical realism such as exodus and lycanthropy are present in the culture and are often heard in stories.

The current symbols in the story are birds with a strong position in society, thought to bring misery or good luck. The story is about an orphan who dug a well for his village, but soon the water in the well suddenly stopped and he waited until that day to catch the culprit. He then used the hood as a shower to catch the flying angels. He had an angel's crown in his hand and decided to marry her [1], [2]. The imprisoned angel had no choice but to marry her.

A few years later, they had children, and one day the angel asked one of his children where their father had hidden the crown. She used it to walk back but also tied the rope and followed her children.

A desperate orphan meets a colorless horse and gets him to color it, and with his help he finally reaches heaven. He adapts quickly, comes to his mind naturally, and makes people jealous, so they put him to sleep and send him back.

The story also depicts the theme of orphans in the Naga society. Interactions with animals and birds show us that horses developed a spiritual connection with nature long before the advent of religion.

Nagas do not worship any god but only one supreme god. Therefore, there is heaven and hell. Another notable sign is the presence of angels in the story. The Naga Angel's version does not have a halo or wings, but instead of using a head to fly, she looks more like a maiden or fairy.

Another theme in the story is magical realism. Interactions with animals can be found in many stories [3], [4]. There was a man who used the cage to carry fish, but every night a snake came to eat the fish in the cage. The man got very angry and said, "I will set a trap for anyone who eats all my fish." He set a trap and when the man went to eat the fish in the cage, the man could not get out. He saw it in the morning. So, you're the one who ate my fish! Now I'm going to eat you."

He put the dog in the cage and went out. The snake was afraid and spoke. Don't eat me! Let me stay. I will give you useful advice. The man said. When one of your kids gets a fish bone stuck in their throat Otter said [5], [6]. "Take a piece of the skin of a snake, strike it eight times on the child's throat, and say: 'These are the instructions of the previous snake bite, if it goes it goes, if it goes up it goes up,' and the fish bones will move to one side, move to one side or the other. Then the man dropped the trick and to this day people here follow the snake that says when a fish bone gets stuck in their throat.

These ancient horses have incredible beliefs and stories about how they got to where they are today.

Animal-human interaction has always existed and is in harmony with nature. There is always a myth or legend behind some traditions that exist or should exist. It also includes nature, and animals are undoubtedly the most involved.

This causes people to do certain things in their daily lives because they believe in these stories. For example, this short story describes why, near a local restaurant, a fish bone was found hanging from a bird's wrist to prevent it from being swallowed.

The preservation of oral traditions has grown in significance throughout time. Because there is a continual struggle for visual attention in today's digital world where everything is becoming more visual by the day, I want to transmit the message of these narratives through an engaging interpretation that combines both aspects of visual narration and interpretation.

Many folklore variations can be attributed to oral storytelling [7], [8]. It was intriguing to hear somewhat various versions of the same story when talking about folktales with the seniors in the area. This poem describes a girl who paid a greater bride price to marry a man from a different village.

The girl describes how her husband mistreated her during the monsoon season when the river was high and impossible to cross, but treated her nicely during the dry season when it was

simple to cross. The girl's desire to go back to her parent's house is expressed in the final verse. She peers out towards her hamlet to check on the maturing paddy.

Figure 1 illustration the girl describes how her husband mistreated her during the monsoon season when the river was high and impossible to cross.



**Figure 1: Illustration The Girl Describes How Her Husband Mistreated Her During the Monsoon Season When the River Was High and Impossible to Cross.**

This meant that the monsoon was ending, which would cause the river to recede and make it easier for her to cross. Preserving oral tradition is important and becomes increasingly important as time continually collides with the digital age. In today's visual world, where attractive images compete for attention, there is an urgent need to find new ways to express the richness of traditional legends. This recognition aims to bridge the gap between the verbal and the visual, revealing the valuable messages contained in these ancient stories through a combination of storytelling and translation. In many cultures, like the art of oral history, there are many versions of what happened. By meeting local elders and delving into the stories, I found the truth in the small differences in the narratives of the region and language. It is in this culture that a touching poem emerges that tells the story of a young woman who pays a high bride price to marry a man from a remote village. The verses of the poem intricately describe the girl's journey and illuminate the different treatment she received from her husband during the harsh monsoon season where water cannot flow and the dry season marked by vulnerability.

The conclusion sums up the girl's desire to return to her parents, looking out over the village and ripe rice fields that mark the end of the monsoon [9], [10]. In exploring the nuances of these narratives, the project seeks to understand the complexity of oral culture, revealing their cultural significance and the urgency of preservation they face in the face of daily challenges. The poem's narrative, steeped in emotion, cultural depth, and seasonal symbolism, serves as an entry point for a broader examination of oral culture in the context of a changing digital landscape.

### *1.1.Statement of Purpose:*

It is said that stories benefit humanity. They are designed to inspire, improve morality, provide insight, or simply apply life. I have always been fascinated by stories and their forms. It allows us to understand people's lives and cultures. This inspired me to work on a project focused on storytelling. Since Naga history, our traditional means of storytelling has been through our stories. We are a society that relies on oral expression as a tradition and is passed down from generation to generation. When I was a child, I always loved some of the stories I heard from my elders with uncertain endings or melancholic stories that people heard while working in the

fields, going to family games, or celebrations. There are always elements and concepts that are repeated over and over again, which helps me understand the importance of each one and why it should be included in the stories I hear [11], [12]. Asking more questions about my parents and grandparents helped me understand my roots better. This makes me want to do more to help young people like me understand ourselves better, watch the death of oral narratives, and prevent us from getting lost in the world wave without knowing much about our culture. I would also like to see more of these narratives brought to life by modeling narratives that are closer to the setting in which the story is based. and make it appealing to today's audiences.

Objective: In the first stage of this project, I aim to touch the emotions and culture that can be expressed, the people that can be related to, those who do not know, and many others by presenting the story. different opinions. What is important is the persistence and contribution of the traditional artistic elements of my community. Document the culture and traditions of the community and use visual interpretation to enhance the narrative and make it more appealing to today's audiences.

1. Contribute to cultural history.
2. Maintain the description.
3. Participation and promotion of culture through arts

Researchers, Naga youth, students, artists, writers, historians, researchers, state governments and interested parties. Beneficiaries Families and clans, the village where the story begins, and the person telling the story. Naga historians, students, historians, historians, artists, writers, thinkers and enthusiasts.

## **2. LITERATURE REVIEW**

C. Chakraborty et al. [13] the study focused on the In this paper, we use a combination of methods to unravel different cryptanalytic analyses of RC4 that have been unconfirmed for over two decades. We also present new observations and theoretical evidence. We first demonstrated the bias proposed by Fluhrer and McGrew (FSE 2000) two decades ago. Surprisingly, although these biases were published long ago and had many applications in cryptanalysis until recently, evidence was not presented. In this article, we complete this task and show that all these differences tell us about the differences in RC4. Additionally, we consider the difference between passing a byte between two non-consecutive significant bytes. Similarly, we simplify some missing observations in the famous Glimpse theorem proposed by Jenkins in 1996. Our results point to the relationship between honest RC4 keystream and a Glimpse of RC4 secret differences. It is evident from our results that the biases and glimpses are everywhere in RC4 and it needs further investigation as we provide a very high magnitude of glimpses that were not known earlier.

A. von Stockhausen et al. [2] the study explored The German word "Histeridae" vividly describes the conclusion reached by most studies of the northeastern region of India today: "Histeridae" means "further India" or even "above India". The term can be found on an old German map showing present-day northeastern India, associated with nineteenth-century French colonial terms such as "Indochina" or what was known in French colonial terms as "Indochina". "Water" bordered the region to the northwest. Even on earlier Latin maps. On these early maps, the Northeast was a region more like Southeast Asia than it is today. India today - an easily spanning link to India's cultural history.

The plains and hills of Assam have been the meeting place of various cultures and religions for centuries. While most religious systems, Hindu and Islam, continue to exist in the plains,

animist religions and shamanistic practices developed in the mountains. Through these religious traditions and their extensive oral wisdom and mythology, many mountain peoples of the East have established informal connections with other groups in the Himalayan region, as well as with other groups in southern China, Burma, and Thailand. These influences have created many ethnic groups in the region, many of them local, sometimes confined to a particular valley, a village, or part of a village. In this context it seems strange to find a tribal name like "Naga" used for people living in large areas. Where did it come from and was it developed against a historical background? So who are the Nagas? The ethnic name "Naga" is now used to describe many ethnic groups living in the region of northern India and northern Myanmar. Over the years, the word design has been used not only to describe the unity of different groups of people but also to express the identity of those united under this umbrella.

This article focuses on the various origins and "lineages" of the word "Naga". Most of the lines we will follow seem to be quite competitive and successful because today's concept of "Naga" is political.

A. Borgohain et al. [14] the study described The Anglo-Burmese War in the 19th century revealed British ignorance of the Inner Line, the important region between Burma and China. Many policies of the British government led to the division of the plains and hills, gradually improving the art of the frontier.

Apart from Assam and Manipur, other hill states also eventually came under the influence of the British Empire. Nagaland is one of the measures taken by the British government on domestic and international flights in the northeastern region. The colonial government created the Inner Line License in 1873 to protect and preserve the identity and existence of the indigenous Naga people. But slowly it seems that the Inner Line Permit is having an impact on the people of Nagaland as well. To examine internal licensing, this article also examines internal documents before and after colonization.

S. Biswas et al. [15] the study explored Nagas are the first Han-Mongol people and are considered to have emerged in the 10th century BC. It is located in the plain between the Yellow River and the Yangtze River in north-central China.

According to reports, migration is a process that has been going on since ancient times, and the Naga people, who could not leave their land and be a part of the great adventure, are looking forward to exploring the renewed region and staying there.

Thus, today the Naga people live on the banks of the Chindwin and Ayeyarwady rivers in Myanmar and in the Indian state of Nagaland. According to its language, it is said to be a branch of the main branch of the Sino-Tibetan family and bears some similarities with Tibeto-Burman. As for the meaning of the word Naga, it is derived from the Sanskrit word Nanga or Nag, which generally means "red" or "mountain".

Khekali [16] the study described The British sought out the tribe's traditions to copy their knowledge that could be used for the expanding empire in the Naga hills of northern India. The Nagas had an oral tradition, so the colonial court's decision was based not on preambles but on its understanding of the content of the plaintiffs' testimony in court. In this way, the cultural laws of the people are interpreted and sent back to the people as the courts analyze and understand the law.

The political system creates the idea of being on the side of "law" in the distribution of justice. Alongside the expanding missionaries in England was a very powerful rival; American missionaries were baptizing in the Naga Hills. Village life changed dramatically when

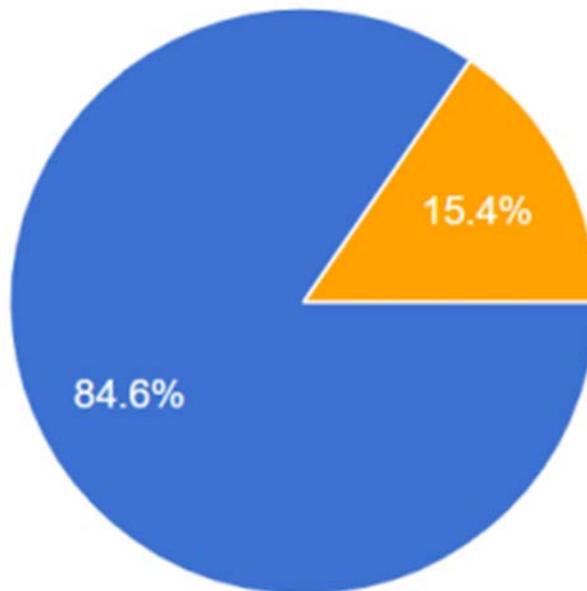
missionaries introduced the system of dividing the local community into old and converted Khels. This system further changed its place in traditions. In this process, many ancient/pagan v. The Christian cause was heard in the Naga Hills colonial court.

G. Sharma et al. [17] the study focused on the study argue two major points: one, ethnicity is not just a feeling of commonality and belongingness of a group of people, but also the construction and contestation of meanings of the geographical and cultural connectivity between the ethnic groups; and secondly, these politics occur dominantly among the civil society organizations of the ethnic groups.

The Nagas and valley society of Manipur have been at the center of territorial contestation for quite a long time. There have been movements in the hills of the state that demand a separate territorial identity for the Nagas. However, this antagonizes another argument that reads the hills and valley as one.

That the Naga tribes have formed parts of an organic society and polity called 'Manipur' has been strongly defended by non-Naga civil society organizations. It is also mentioned in colonial documents that the Naga people of Manipur had a unique spatial trajectory in terms of their culture and geographical proximity to the forest. Against the ideas and traditions of the community and interpretations of Manipur Nagas, Naga civil society asserts territorial control using oral tradition, mythology, religion, and description of the sentiments of the country.

### 3. DISCUSSION



**1. Figure 2: Illustration of The Population According to Gender in Percentage.**

#### *1.1.Data Analysis:*

Gender, an analysis of about 26 respondents ranging in age from 20 to 45 shows that 90% of people have heard of it, including about 80% of women and 15% of men in more than 8 large groups in the state as shown below in Figure 2.

Story 80% of historical legends come from oral transmission, insofar as they are based on oral narration.

**Table1: Illustrates the Themes You Often hear about in Folkier:**

1. Supernatural
2. Love
3. Supernatural elements
4. Supernatural elements
5. Supernatural
6. Love, kingship, Supernatural elements
7. Pain, Tragedy, Love, Spirits, Wisdom
8. Supernatural, Tragic love, war
9. Love, Sandness

The top themes gathered that could be heard through the lore were about love, tragedy, and supernatural elements Table 1. When asked about the unique characteristics of society, from good behavior to enforcement, the answers are very diverse [18], [19]. However, similarities between these features can also be found in ancient stories.

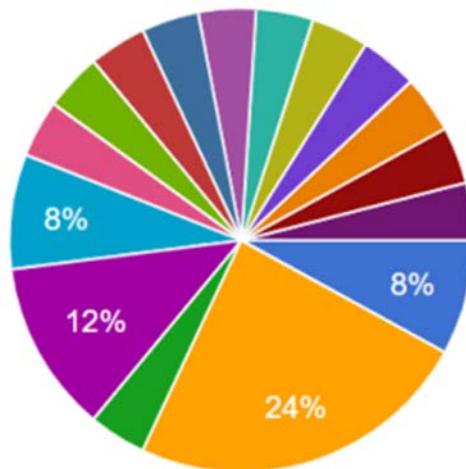
Therefore, the sense of resonance is also reflected in folklore.

*1.2.Trib Community:*

Without additional context or details, it's challenging to provide a precise description of the Trib community.

The term "Trib" could potentially refer to various entities such as an online platform, social group, or specific organization, and its nature would depend on the context in which it is used.

If "Trib" represents a recent development or a niche community, I recommend checking the latest online sources, official community pages, or relevant announcements for the most current and accurate information Figure 3 Illustration of the Diverse Tribe.



**Figure 3: Illustration of the Diverse Tribe.**

### *1.3.Folklores interpreted:*

Approximately 50% of the participants preferred novels, 19% preferred books, followed by novels/comics with 15%.

1. Oral narratives give rise to many forms of folklore. It's interesting to hear slightly different versions of the same story when speaking. The difference depends on region or language.
2. Participants often want to see the narrative in a different way that has not been seen or done before because the desire to mature or complete the narrative is not popular in the media.
3. Through secondary and primary research, themes of realism, love, and tragedy emerge in the story. This is because people's misunderstanding of nature and religion in the past was different from the current situation [20], [21].
4. People have more thoughts and feelings through songs and poems because it is a way to express negative things that are difficult to express in society even today.
5. The possibilities of interpreting this statement are endless; From rewriting words in today's conditions to using them through different media, it can be further researched.

Folklore is a story that creates or imagines our life. They teach us and entertain us. For the Nagas, a community with no recorded history, oral traditions passed down from generation to generation have become more important and need to be preserved.

The participants in this study come from the Naga community, which consists of 8 groups aged 20-65, and most of them know at least one story from the oral tradition of the elders. Due to the scarcity and lack of representation of other groups of these people, many people are attracted to a movie or genre and then explain the narrative through publications.

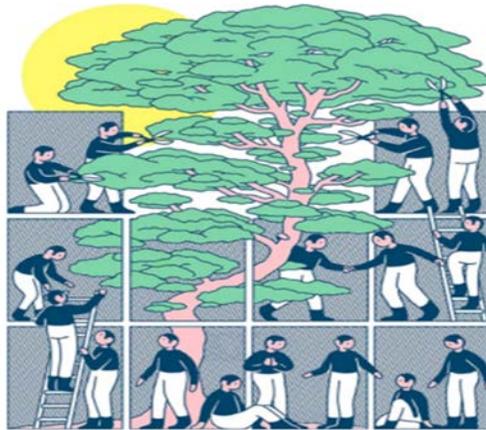
Therefore, as a facilitator and visual communicator, I will create a narrative depicting the life of the Naga culture, often with a moral story, based on the content I have researched and taught myself in my research. I intend to use the characteristics of the movement as a tool to describe cultural scenes through sounds and images.

Engage the audience and support the youth community as well as adults and other users of the online platform accessible through websites such as Vimeo and another meeting places.

### *1.4. There are many methods for visual interpretation:*

I explore different interpretations of storytelling, from patterns on traditional African textiles that tell stories, to non-standard text and humorous illustrations.

Through this event, I learned important connections to culture, personal experience, or just thinking outside the box and having fun. Figure 4 illustrates the traditional African textiles that tell stories.

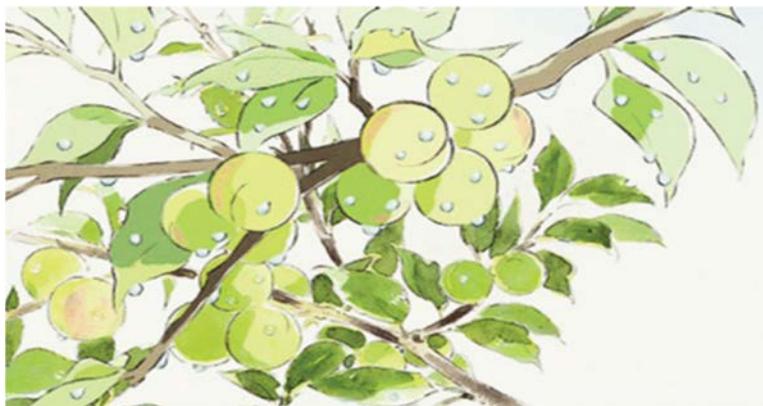


**Figure 4: Illustration of The Traditional African Textiles That Tell Stories.**

Artist and illustrator Evan Cohen creates visual art by carefully guiding viewers through imaginary boxes, transforming grids into boxes. Tell a unique story with African textiles. Every design artist Yinka Ilori's research has a layer of story. Women's needs and dreams are expressed in words through design.

*1.5.References for Visual Narratives:*

I find this storytelling real and passionate. The number of anime fans has increased since the outbreak. This shows that more people are appreciating and appreciating art, and I think animated shows have the potential to attract people's attention, surprise the message, support arts and culture, etc. One of the best platforms to use. Figure 5 Illustration of the References for Visual Narratives.



**Figure 5: Illustration The References for Visual Narratives.**

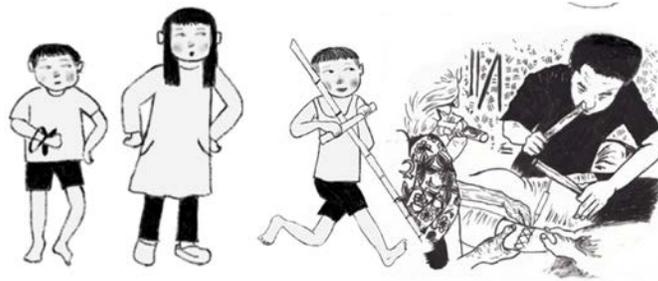
Talk about the content of these images. More information about careful listening is used. Many of these events are due to changes in movies to reflect seasonal changes, similar to real-life movies and documentaries.

The next film is Wit Studios' Girl from the Other Side. The slow effects and transitions are so fascinating that it reminds me of art mediums like graffiti, charcoal, and paint.

*1.6.Mood/ Setting References and style:*

I wanted to follow the existing color palette used to create visually beautiful images. I directly investigate existing descriptive patterns in textiles, tattoos, doors, googly carvings, and more.

Colors specifically used for this purpose are exclusively black and white, with hand-drawn or simple geometric shapes but without much precision. Figure 6 illustration of the activities mood/ setting references and style.



**Figure 6: Illustration The Activities Mood/ Setting References and Style.**

This minimalist design allows me to focus on exploring the charm of minimalist works of art. Thus, I achieved a character style using black and white and personal effects. After exploring various storytelling techniques, I think the most codified ones are traditional storytelling techniques like kava, colorful storyboards that work with clear instructions, and characteristics of dolls or shadow dolls popular in the old days. Eye sight. Its animated shape and the way the box is drawn make it come to life. In it, the narrators of the story have different versions of the same story that depict the basis of oral tradition.

There are also many aspects of the story that I am working on. So, it's hard to believe here, and the explanation of this story is another important part of this movie that I can relate to. Figure 7 illustration of the colorful storyboards that work with clear instructions and characteristics of dolls or shadow dolls popular in the old days.



**Figure 7: Illustration The Colorful Story Boards That Work with Clear Instructions and Characteristics of Dolls or Shadow Dolls Popular in The Old Days.**

Another source of inspiration for the subject seeking the ultimate cure is the film Sita Sings Nina Paley's Blues; Based on the Indian epic Ramayana, it is a fascinating film that captures its traditional story fused with the West [22], [23]. What fascinates me is the style of the animation, the context, and how well it fits with the content. This helped me keep track of the visuals of the story I was creating, that is, tell it in a way that reflected the content.

*1.7.Scenes from the film:*

A sequence of scenes depicting a typical sowing season village life is shown after the opening shot, which is a panorama of the hamlet. During the tea break, the family works on various farm projects and sips tea by the fire in the kitchen. Figure 8 illustrates the Scenes from the film.



**Figure 8: Illustrates the Scenes from The Film.**

The siblings mourn their parents' passing in their total bedroom a typical home construction material. The siblings finish half of the task. Buildings are erected for expansion, and the next day brings with it further development, for example, the sowing of paddy seedlings. When night falls and the sister hides close to see the strange occurrence, she is shocked to see her deceased parents emerge from their hiding place and go to work.

## 2. CONCLUSION

In summary, the research on "Preservation of Naga Oral Tradition: Visual Narrative Approaches to the Preservation of Rich Folklore" highlights the importance of new ways of preserving and disseminating cultural heritage. The combination of narrative and oral tradition not only provides a good and effective way of preserving Naga stories but also provides solutions to problems caused by reform, innovation, and international trade. By leveraging technology and multimedia platforms, the program builds a bridge between generations and promotes a deeper understanding and appreciation of the Naga cultural fabric. While visual narrative breathes new life into old stories, it becomes a powerful tool in sustaining Naga oral culture, giving rise to the strength and power of this unique heritage. This effort not only demonstrates the evolution of culture but also demonstrates the importance of using modern techniques to transmit the rich history and stories of the Naga people to the future.

## REFERENCES:

- [1] A. R. Walker, "Asia - The Nagas: Hill Peoples of Northeast India — Society, Culture and the Colonial Encounter. By Julian Jacobs, with Alan MacFarlane, Sarah Harrison and Anita Herle. London: Thames and Hudson, 1990. Pp. 359. Illustrations, Glossary, Notes, Bibliography.," *J. Southeast Asian Stud.*, 1993, doi: 10.1017/s0022463400001557.
- [2] A. von Stockhausen, "Naga: Lineages of a Term," in *Landscape, Culture, and Belonging: Writing the History of Northeast India*, 2019. doi: 10.1017/9781108686716.007.
- [3] B. G. Gokhale, "Nagaland -- India's Sixteenth State," *Asian Surv.*, 1961, doi: 10.2307/3023644.
- [4] L. N. Kithan, "Indigenous system of Paddy cultivation in Terrace and Jhum fields among the Nagas of Nagaland," *Int. J. Sci. Res. Publ.*, 2014.
- [5] L. Robert and A. W. Walling, "Identity of tribes and the modern state: Contestations in Naga civil society," *Asian J. Soc. Sci.*, 2023, doi: 10.1016/j.ajss.2023.03.002.
- [6] T. Septianawati, Turmudi, and E. Puspita, "Ethnomathematics study: Uncovering units of length, area, and volume in Kampung Naga Society," in *Journal of Physics:*

- Conference Series*, 2017. doi: 10.1088/1742-6596/812/1/012021.
- [7] R. Mishra and K. Newme, "Social Communication and Traditional Folk Media of the Zeme Naga Society," *SSRN Electron. J.*, 2021, doi: 10.2139/ssrn.3839310.
- [8] L. Robert and A. W. Walling, "Tribalization in civic space: Locating civil society in the Naga context," *Asian Ethn.*, 2023, doi: 10.1080/14631369.2022.2159322.
- [9] A. R. Dutta, "The naga national struggle, 'framework agreement' and the peace prospects," *Sp. Cult. India*, 2015, doi: 10.20896/saci.v3i2.151.
- [10] I. H. Achumi, "Remembering the Present: Maps, Identity, and Memory in Naga Politics," *Soc. Cult. South Asia*, 2023, doi: 10.1177/23938617221076174.
- [11] G. K. Chophy and A. G. Zhimo, "Naga tribal councils: A formidable political force," *Economic and Political Weekly*. 2018.
- [12] I. Assumi, T. Assumi, A. Assumi, and C. Phom, "The Modern Flu: Body Dysmorphic Disorder in the Naga Society," *Res. Rev. Int. J. Multidiscip.*, 2021, doi: 10.31305/riijm.2021.v06.i07.021.
- [13] C. Chakraborty, P. Chakraborty, and S. Maitra, "Glimpses are forever in RC4 amidst the specter of biases," *Discrete. Appl. Math.*, 2021, doi: 10.1016/j.dam.2021.03.021.
- [14] A. Borgohain, S. S. Talukdar, M. H. A. Al-Abyadh, I. Patra, Vijaylakshmi, and B. Tripura, "Psychology and Philosophy of Tribes' Community towards Revising Inner Line Prevailing from Colonial Era and Factors Affecting Their Life Entity," *J. Reatt. Ther. Dev. Divers.*, 2023.
- [15] S. Biswas, "NAGA IDENTITY POETICS IN CONTEMPORARY NAGA ENGLISH LITERATURE (A KALEIDOSCOPIIC VIEW)," *Int. J. Res. -GRANTHAALAYAH*, 2020, doi: 10.29121/granthaalayah.v8.i11.2020.2076.
- [16] Khekali, "The Remaking of Custom in the Naga Hills," *Hist. Social. South Asia*, 2018, doi: 10.1177/2230807517733584.
- [17] G. A. Sharma, "Spaces of ethnicity, civil society and territoriality of Naga Tribes in Manipur," *Man India*, 2010.
- [18] U. A. Shimray, "Equality as Tradition Women's Role in Naga Society," *Econ. Polit. Wkly.*, 2002.
- [19] N. P. Singh, P. R. Gajurel, and P. Rethy, "Ethnomedicinal value of traditional food plants used by the Zeliang tribe of Nagaland," *Indian J. Tradit. Knowl.*, 2015.
- [20] E. Komara and S. Rahman, "Educational value entailed in local wisdom in kampung naga tasikmalaya," *Opcion*, 2018.
- [21] G. K. Chophy, "Gandhi and the Nagas," *J. Anthropol. Surv. India*, 2019, doi: 10.1177/2277436x19886422.
- [22] R. Manchanda and T. Bose, "Expanding the middle space in the Naga peace process," *Econ. Polit. Wkly.*, 2011.
- [23] S. Kamei, "Customary Inheritance Practices and Women among the Kabui Naga of Manipur," *Indian Anthropol.*, 2014.

## CHAPTER 4

### A ROLE OF SANSKRUTI IN CULTURAL

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#### **ABSTRACT:**

India is a rich wellspring of inspiration, imparting priceless knowledge to its people. The country's variety is remarkable; every state is almost like a separate country, with its cuisines, dialects, customs, etiquette, arranged marriage systems, and rich history. We come across vibrant cultures wherever we go, and we see unique methods that we greet people that make us stand out. This is what makes India unique. It is imperative that the millennial and Gen Z generations, who are our younger generations, comprehend and value our Indian culture. We performed an observational study on a family vacation with my younger cousins and found that young people are becoming more and more inclined towards Western culture, often at the cost of their understanding of our rich Indian past. Receiving knowledge about Indian culture from our grandparents is encouraging, and it is our duty as the younger generation to preserve this cultural heritage. The fundamental objective is to bridge the gap that exists between the younger generation and the older population by providing a link to an essential facet of our culture and promoting acceptance of our true Indian identity.

#### **KEYWORDS:**

Cultural and Economic Growth, Customized Travel Experiences, Heritage Conservation, Tourism Development.

### 1. INTRODUCTION

Our love of medieval forts and our deep interest in historical documentaries and films inspired us to set out on this voyage of historical research. From an early age, television shows and movies that portrayed the lives of Shivaji Maharaj and Malhar Rao Holkar captured our attention, such as "Bajirao Mastani," "The Kashmir Files," and others. The appeal of these stories made us stop and consider how easy it was to understand history, particularly in comparison to the intricacy of scholarly research. We looked for non-traditional study strategies as we were ready for our BA examinations since it was difficult to cover so much material in one sitting [1], [2]. The discovery of narrative-style chapter summaries on YouTube has proven to be an efficient means of understanding historical themes while also adding an element of enjoyment to the learning process. This insight sparked our curiosity in how to make history more approachable for a wider range of people, especially those from comparable cultural backgrounds who might relate via common experiences and ideals.

Despite the diversity of Indian culture, we found that even among our peers, there was a worrying dearth of knowledge of important historical people, places, and events. We were inspired by this discovery to further explore our goal of integrating history into every Indian home. We wanted to provide anecdotes about historical tragedies, legendary locations, trivia, and brief yet interesting historical tales. We are driven by the aim of bridging the historical and contemporary divides and making sure Indians are aware of their cultural heritage [3], [4]. We saw a rift over India's rich historical tapestry among friends and relatives, which highlighted the significance of knowing one's history and cultural background. We want people to be proud of their legacy, which is why we want to teach them about historical sites, particularly the hidden treasures of India.

We came up with the concept for a smartphone app that would enlighten people about historical sites and monuments, acting as a beacon of knowledge, to support this cause. One of the app's special features is its push notifications function, which provides insightful information and historical context to users whenever they are within a one-kilometer radius of a certain monument. A gap in the market was found when secondary research on already-existing Indian applications with comparable goals was conducted; no direct rivals were found. Nonetheless, international applications with related principles offered insightful information about opportunities for innovation and development. We are dedicated to improving and fine-tuning the user experience as we pursue our objective, making sure that our app functions as a smooth entryway to India's rich historical legacy. By this project, we want to celebrate the rich diversity of Indianness and cultivate a strong feeling of pride and belonging in the hearts and minds of all Indians.

### *1.1. Japan's World Heritage app:*

This software acts as a thorough guide to all of Japan's designated World Heritage sites. When the "Map" option is chosen, viewers are shown a map of Japan that shows the locations of all the World Heritage sites. The name of the particular World Heritage site is also shown on the map screen, providing users with a fast reference to their preferred locations. The application's "History" feature provides users with comprehensive details on every World Heritage site [5], [6]. By zooming in on the map and pressing on a certain spot, users may see photographs and more information about that exact area. This feature's interactive quality improves the user experience by enabling users to virtually visit heritage places and learn about their historical importance.

Additionally, users may tailor the program to suit their tastes. By selecting "Settings," customers may alter the application icon and even the color scheme of the map. This customization option improves the application's overall usefulness by adding a unique touch to the user interface [7], [8]. It's crucial to remember that the program only supports Japanese, meaning that users who are fluent in the language or from the area may use it. This language emphasis makes the program accessible to its target audience by guaranteeing that users can fully understand and interact with the offered material.

But despite its intriguing features, the software has run into problems. There are errors in the functions offered, according to user reports, and it is not operating correctly [9], [10]. These issues might adversely affect the user experience and impair the application's overall efficacy. The timely resolution of these difficulties is crucial for the developers to guarantee the smooth operation of the program and the provision of precise information, thereby optimizing its usefulness for users who are visiting Japan's World Heritage sites.

### *1.2. World heritage app:*

With its extensive list of UNESCO historic sites, the World Historic app is a great resource for both tourists and aficionados. In addition to providing basic details on each site, this compilation also shows the cases in which some of these culturally important landmarks have several locations. This feature provides a more nuanced knowledge of the variety inside each UNESCO site, which enhances the user experience. The app's capacity to help users find local UNESCO historic sites is one of its noteworthy features [11], [12]. This function comes in particularly handy when organizing a trip to visit many locations in a particular area or for impromptu investigations. Users may quickly add interesting sites to a customized wishlist inside the app after finding them. With the help of this wishlist, individuals can easily maintain track of the historical locations they want to see, making their travels more planned and intentional.

Similar to this, the app lets users make a list of places they have visited, which helps with the post-visit phase. This feature functions as a digital logbook, enabling users to contemplate and honor the wide range of historic locations they have had the chance to visit. Wishlist and visited list capabilities together provide the app an extra personal touch that makes it more appealing to a wider range of users. The app adds a timeline element to enhance the user's understanding of the historical importance of each cultural site. This timeline, which runs from the 1990s to the 2020s, gives readers a contextual framework to comprehend how these sites have changed over time. It is important to keep in mind, nevertheless, that this timeline's interactive features may not always be obvious, which might make it difficult for certain people to navigate. Despite all of its advantages, there is one significant accessibility flaw with the program [13], [14]. Some users may find it difficult to understand the complexities of its features and functions, which might restrict its usage. The app's overall appeal and efficacy might be greatly increased by making it more accessible via intuitive design and user-friendly interfaces, which would guarantee that it serves a wider range of tourists and history aficionados.

## 2. LITERATURE REVIEW

*Nevola et al.* carried out an analysis of the operation of Hidden Florence, an augmented reality (AR) application created for historical tourism at the UNESCO World Heritage Site in Florence, Italy. Their inquiry was conducted against the background of the city's management plan, which has been aggressively supporting digital and smart solutions since 2016 to solve difficulties presented by mass historical tourism. This study examines trends in app use both within and outside of cities by analyzing user interaction data collected between 2013 and 2018. The research makes two main contributions. First, from a managerial perspective, the empirical research highlights important methodological and practical issues that must be resolved to successfully integrate augmented reality applications and related data into the management plans of well-known cultural sites. Second, the findings from Hidden Florence suggest that translating these conceptual possibilities into sustained management practices and meaningful transformations presents more significant challenges than the current discourse acknowledges, despite recent theoretical and advocacy efforts surrounding the use of AR apps and smart approaches in tourism management [15].

Potential digital interpretation methods were studied by *Wimalasuriya and Kapukotuwa* to improve on-site interpretation of Sri Lankan Cultural and World Heritage Sites (CWHS). Thirteen in-depth interviews with experts, on-site inspections, a scan of the literature, and a questionnaire with 505 responses were all used in the study's data collection process. The theoretical framework was developed by the analysis, which was organized around 24 criteria divided into six themes: site condition, legal and regulatory considerations, technical and financial feasibility, content preparation, implementation, and sustainability. The results showed that "mobile apps with augmented reality (AR) enabled," which combined mobile apps with mobile [16]-AR technology, were workable and appropriate for each of the six CWHS. The study suggests creating customized apps for every CWHS that are enhanced with Mobile-AR modules, including customizable itineraries, side tabs that highlight heritage values, virtual tour guides, virtual markers for navigation, virtual reconstructions, AR filters, and world context comparisons. Under topics like "Content creation," "Organizational adaptability," "Policy changes," "Partnerships and promotion," and "Post-Implementation Evaluation and Extended Uses," the research offers suggestions to guarantee effective implementation. The thorough result of the research acts as a benchmark for improving on-site interpretation at the nation's CWHS and elsewhere [17].

*Ramos et al.* used an inquisitive and elucidative approach that included qualitative methods like focus groups to investigate how older adults use ICT and travel applications. Quantitative

techniques were also used, including content analysis on several travel-related applications [18]. The results show that ICT is an important tool for senior travelers, positively influencing their impression of their trip overall. Examining these mobile applications shows that they meet the needs of older travelers, a group that is important for cultural tourism and especially important for the long-term viability of World Cultural Heritage Sites (WCHS). These tools' evolution and design need modification to meet the needs of this particular generation, known as Generation W.

*Gaižutytė* works on root-diaspora tours, apps, and the study of Jewish mobile multimedia cultural heritage. The author compares and contrasts the UNESCO Creative Cities Network in Central and Eastern Europe, focusing on post-World War II Jewish populations' thriving cities such as Budapest (Hungary), Kraków (Poland), Prague (Czech Republic), and Kaunas (Lithuania). The article also explores towns with notable Jewish cultural legacy that are not part of the UNESCO Creative Towns Network but provide multimedia tours, such as Vilnius (Lithuania) and Warsaw (Poland). Examining how these multimedia tours and apps combine and accentuate aspects of the creative city idea is the goal of the investigation. Memory culture is greatly influenced by the visiting of memory locations, which intersects with some creative and cultural sectors, such as tourism, museums, and heritage. The cityscape and Holocaust memorials represent traumas, regrets, and the need to remember the past, and they function as a cultural topography. The purpose of contemporary technology, including apps and mobile multimedia tours, is to help tourists find historical places and other tourist destinations on a map by offering useful information, maps, photographs, augmented reality, and Jewish itineraries. These technologies radically alter our connection with cultural heritage and memory, changing not just how we travel and take pictures but also how we relate to them. Mobile phones are becoming more than just communication tools; they are becoming digital prosthetic memories [19].

*Soto-Martin* described a process for restoring and reconstructing old structures, including mural paintings. Digital models that are integrated into an engaging and interactive virtual reality (VR) environment are used in the process. Windows-Mixed Reality makes this VR experience more visually appealing. This strategy was used at the St. Augustine Church in La Laguna, Canary Islands, Spain, a UNESCO World Heritage Site in Tenerife. The church's artwork and architectural features were converted into a virtual three-dimensional (3D) image. While DStretch®, a digital image technique, was used to restore paintings, topography, and terrestrial photogrammetry were used to rebuild building details. The resulting 3D model was incorporated into a cross-platform Unity game engine that created a VR experience that was both immersive and engaging. One noteworthy component of the project was overcoming the difficulty of recovering deteriorating mural paintings using DStretch®. All in all, the result is an immersive virtual reality (VR) environment built inside Unity that allows users to explore, watch, and engage with a live simulation of the cultural heritage site that includes both artistic and architectural details [20].

### 3. DISCUSSION

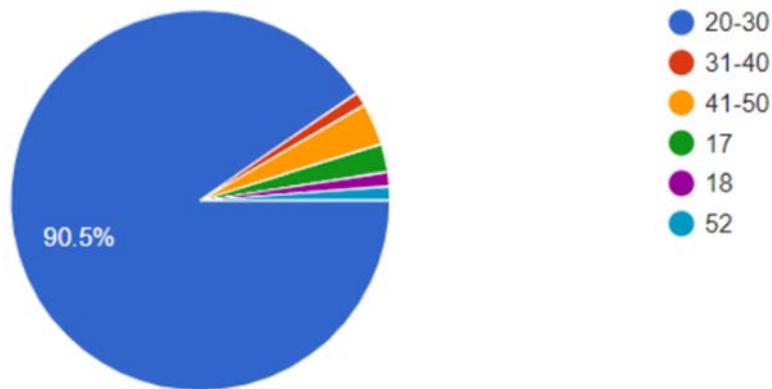
We set out to do research in an attempt to uncover Mumbai's hidden gems, mostly to raise awareness and encourage travel to lesser-known locations inside the city. This investigation was driven by the desire to draw attention to these underappreciated locations, highlight their historical and cultural relevance, and eventually pique the curiosity of prospective tourists. In the process of my study, I explored the nuances of Mumbai's diverse landscape, looking for places that had escaped the notice of the general public. The goal was to uncover the history

and legends connected to these locations, bringing them out of obscurity and into the spotlight as captivating attractions that would pique the interest of both residents and visitors.

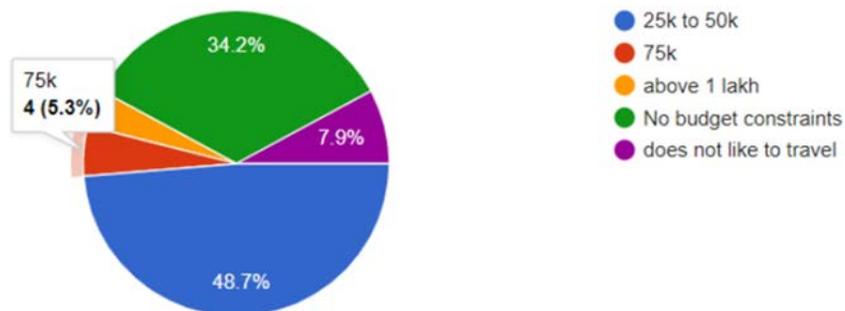
We conducted a comprehensive investigation to gain significant knowledge of the topic. We decided to use a Google Form with ten well-constructed questions to expedite the data-collecting process. With the help of this strategy, I was able to methodically get important information from the participants, guaranteeing a thorough investigation of the subject. After the data-gathering phase was over, I received a sizable number of responses—85 in all. The respondents added to the dataset's variety and richness by reflecting a range of age groups. Participant diversity across age groups allowed for a more comprehensive understanding of the topic as well as the chance to identify patterns and trends that could exist across distinct demographic groups.

After obtaining the dataset, the next stage included a thorough examination of the gathered answers. A thorough analysis was made possible by the large quantity of responses, which enabled me to draw insightful and significant findings. I was able to find patterns, trends, and correlations that gave me a better grasp of the issue by grouping and classifying the data according to the respondents' age ranges. A thorough investigation, a well-thought-out questionnaire, and a wide range of answers came together to provide a rich dataset that cleared the path for wise decision-making. The following stages in this study project have been significantly shaped by the use of a Google Form and the analysis that followed of the 85 replies from different age groups.

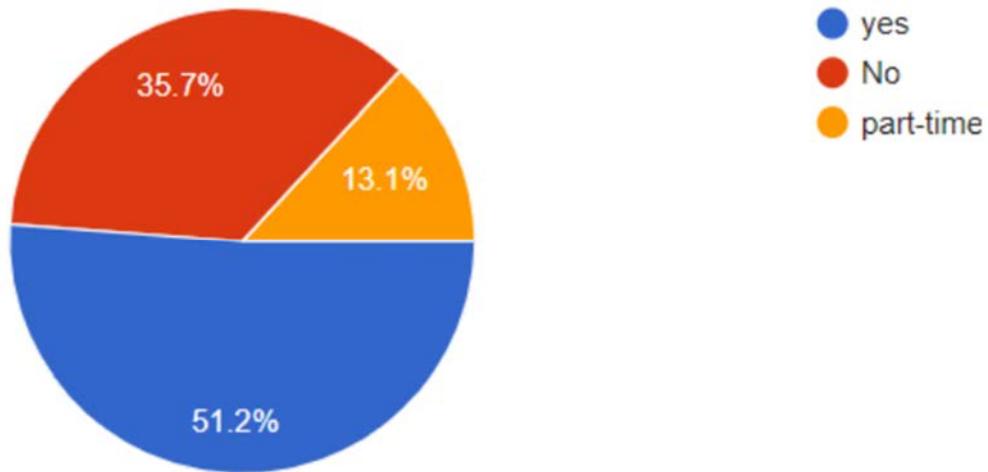
1. What is your age?



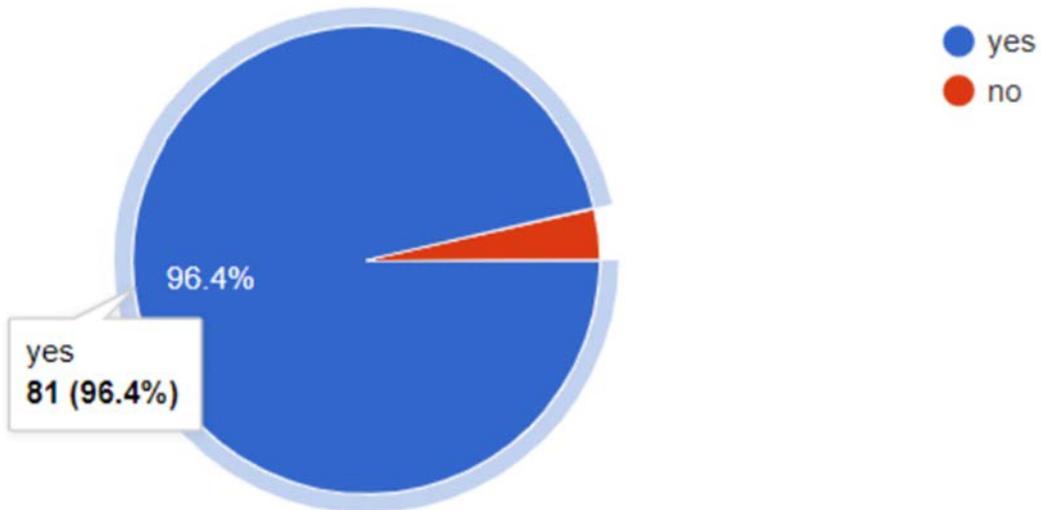
2. From your monthly income, how much do you spend?



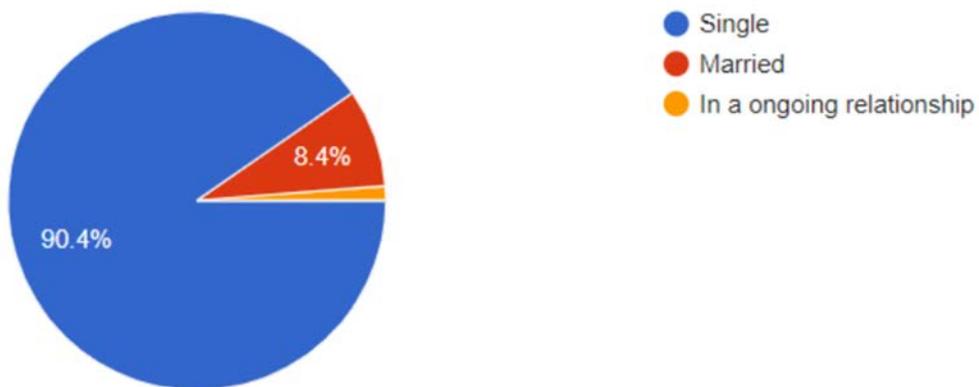
3. Occupation?



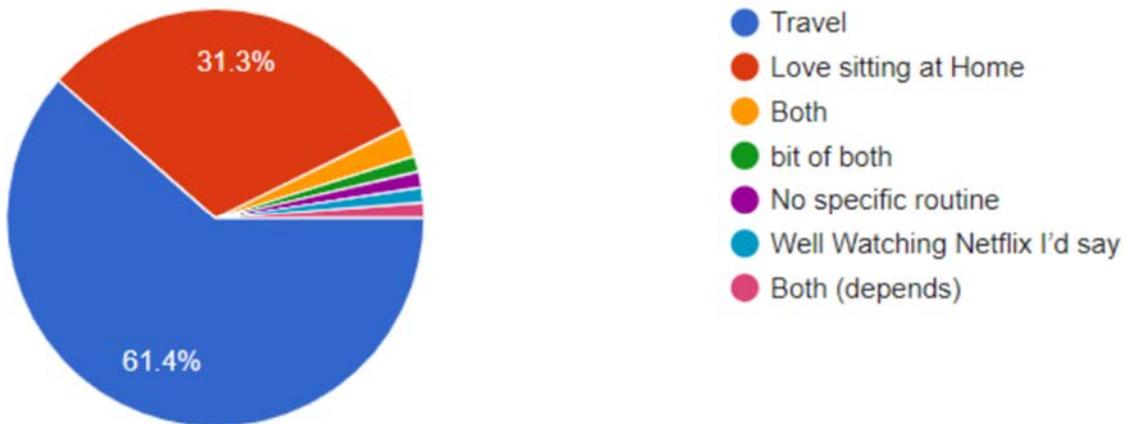
4. Are you from India?



5. What is your marital status?

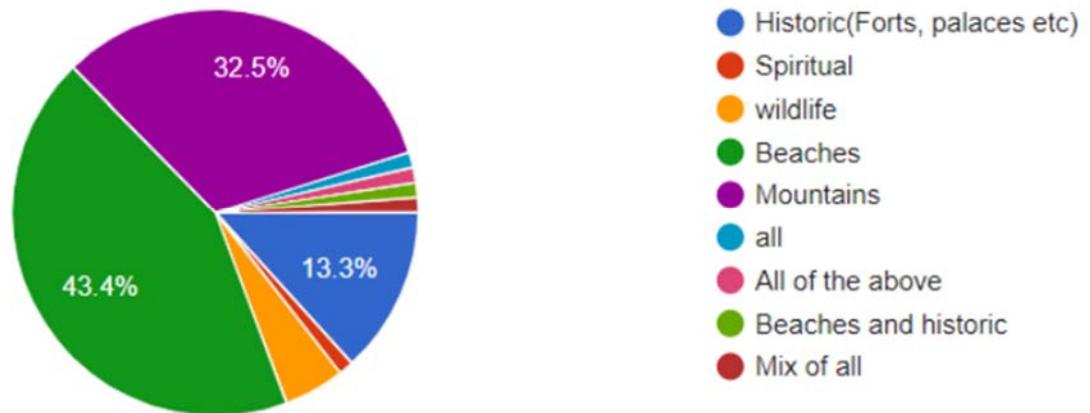
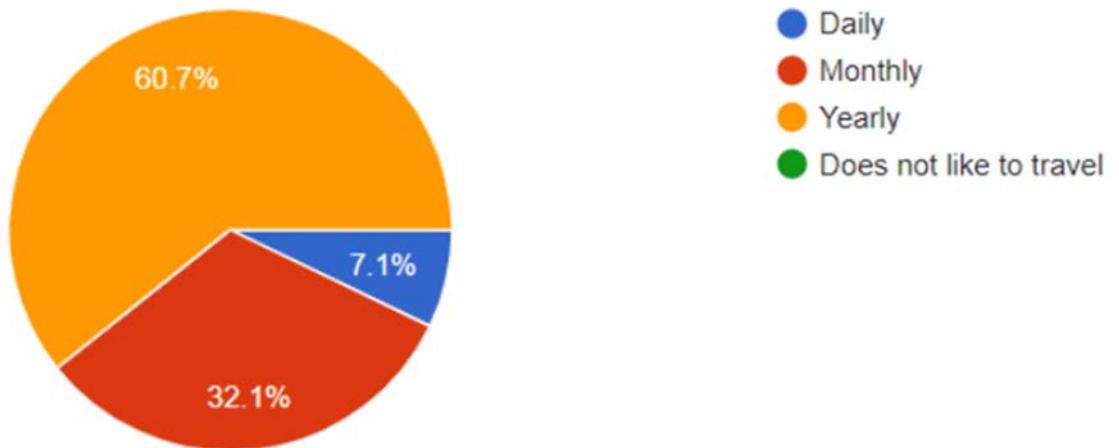


6. What do you do on Holidays?

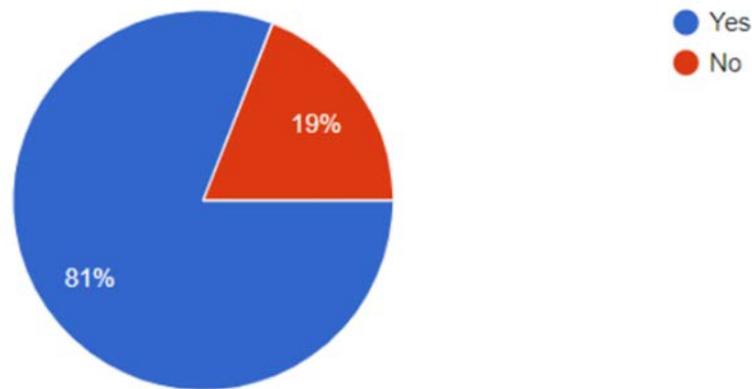


7. How often do you travel?

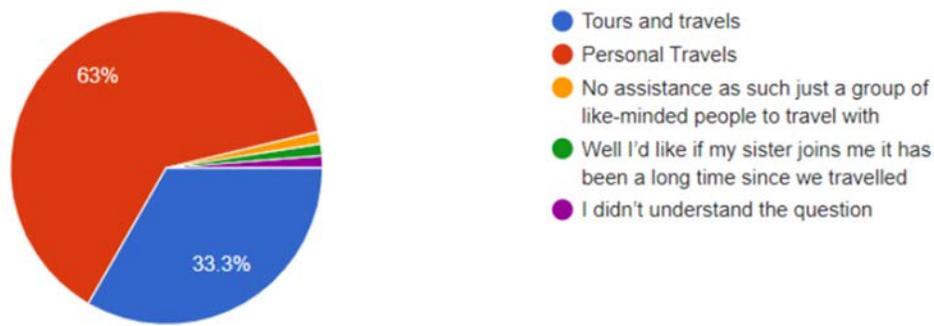
8. What kind of places do you like to visit?



9. Are you interested in less visited places?



10. What kind of assistance do you your travel?



The study results indicate that a considerable segment of the populace allots a budget within the range of 25,000 to 50,000 for their trip expenses. This understanding of spending trends offers important details regarding the financial factors people take into account when making travel plans. Professionals in the travel industry and companies looking to understand and meet the needs and budgets of their target market may find this kind of information to be quite valuable. People's definite preference for beach and mountain resorts over historic sites is another noteworthy trend shown by the poll. This tendency points to a rising interest in adventurous and nature-focused travel experiences.

Travel tastes seem to be shifting towards more scenic and recreational places, with most respondents finding greater attraction in attractive beaches and stunning mountains than in historical monuments.

Additionally, the poll results show that a significant portion of people have a strong desire to visit locations that are not as well-known. This preference for off-the-beaten-path locations highlights the dynamic nature of travel preferences by indicating a desire for uncommon and undiscovered experiences. Travel companies and tourist boards hoping to market off-the-beaten-path locations and hidden treasures may find this information useful. The responder has decided on a personal choice for travel after carefully analyzing the poll data. The person has a preference to concentrate on locations that blend historical value with the unspoiled beauty of mountains and beaches. This subtle strategy points to a desire for a comprehensive tourism experience that combines cultural heritage with beautiful scenery. The responder seeks to demonstrate a deliberate and personalized approach to vacation planning by including historical components into beach and mountain locations, so striking a balance between relaxation and cultural research.

The poll yielded a wide variety of replies, which is indicative of the participants' various tastes. The purpose of the study was to determine people's preferences for various kinds of locations. After the data was analyzed, a tendency that stood out was that people said that they liked beaches or mountains, among other things. This made it necessary to divide the answers into several categories to provide a more in-depth picture of the participants' preferences. Additional classification was done according to age groups to identify possible trends and inclinations within certain demographic subgroups. This phase was essential for detecting any significant differences in the ways that different age groups preferred to travel.

Furthermore, a portion of respondents said in the study that they were interested in visiting less-traveled or off-the-beaten-path locations. This subgroup offered insightful information on a specific market that looks for unusual and one-of-a-kind travel experiences. The next step was a detailed analysis of the information for each age group. Differential personas were created by analyzing the data gathered to capture the interests and travel habits particular to each group. The use of this technique enabled a more sophisticated comprehension of the heterogeneous target demographic, hence enabling the creation of customized approaches and products that cater to certain age-related traits and inclinations. The study revealed a range of travel preferences and emphasized the significance of segmenting the population according to variables like age group and kind of trip. The development of customized personas was made possible by this thorough analysis, which helped to create a more focused and efficient strategy for meeting the various demands and preferences of the survey respondents.

One such undiscovered treasure is Banaganga (Bannganga), a location that may not have caught the attention of many people. Utilizing my research, I attempted to unveil the cultural and historical aspects of Banaganga, exhibiting its distinct allure and encouraging others to delve into its depths. Apart from Banaganga, my investigation uncovered a few additional intriguing sites that have stayed hidden under well-known tourist attractions. Among these are the noteworthy forts of Sion, Sewri, and Revdanda. Wandering beyond the well-beaten pathways of Mumbai's most well-known sites may lead to a rejuvenating and rewarding experience at these forts, each with its own unique history and architectural importance. Our goal was to add to Mumbai's tourist scene's diversity by educating people about these lesser-known locations and inspiring them to go beyond the typical and uncover the city's hidden gems.

These places have the potential to become valuable tourist destinations and to support the region's broader cultural and economic growth via greater knowledge and appreciation.

### *3.1. Banganga:*

Tucked away in the Malabar Hill region of Mumbai, India, lies the holy and historic Banganga water tank, part of the Walkeshwar Temple Complex. Based on historical reports, it is thought that the Silhara dynasty, which ruled Mumbai at that period, provided sponsorship for the construction of this hallowed tank in the 12th century. The term "Banganga" originates from Sanskrit, where "Ganga" refers to the holy Ganges River and "Ban" means arrow. According to legend, here is where Hindu mythological hero Lord Rama fired an arrow into the earth, creating a spring that feeds into the sacred Ganges. Surrounded by a collection of Hindu temples, the Banganga Tank is a holy focal point of the Walkeshwar Temple Complex. Of these temples, the Walkeshwar Temple, which honors Lord Shiva and is thought to have been built in the tenth century, is particularly significant historically. Mumbai's rich cultural and religious fabric is reflected in this temple, which is among the oldest in the city.

Combined, the Banganga Tank and the Walkeshwar Temple Complex serve as important symbols of Mumbai's religious and cultural legacy. All year long, pilgrims and tourists alike

swarm to this location, with a noticeable uptick in attendance around holidays like Mahashivratri and Diwali. Seekers of heavenly connection and cultural enrichment are drawn to the place by its spiritual ambiance and historical significance. The Banganga Tank and its surrounds provide more than simply a holy sanctuary, despite its religious significance. This location is popular with photographers and people looking for some downtime because of the expansive views of the Arabian Sea that provide a charming background. Thus, inside the busy metropolis of Mumbai, Banganga is not only religiously significant but also a varied cultural and scenic jewel.

### *3.2.Sion Fort:*

In Mumbai, Maharashtra, India, the Sion Fort, often referred to as the Castillo de Sion or the Fort of Sion, is a monument to history. The British East India Company commissioned this architectural marvel in the seventeenth century. Its construction was primarily intended to protect the city against any Portuguese assaults, indicating its strategic importance in the area. The fort, which is perched on a hill, offers stunning views of the Arabian Sea and the shoreline in addition to the city skyline. Sion Fort, which was built of blackish basalt stone, has an unusual architectural design that combines European and Islamic influences. The finished construction is more appealing since it is both aesthetically pleasing and useful.

Sion Fort, with its rich history, has been instrumental in forming Mumbai's history. It turned into the scene of a bloody conflict between the Marathas and the British in 1774. The fort subsequently functioned as a jail during the British colonial period. It changed into a watchtower in the 19th century, acting as a watchful bulwark against any sea dangers. Sion Fort is becoming one of Mumbai's most visited tourist destinations these days. Visitors and enthusiasts swarm to its grounds, anxious to climb to the peak and enjoy the magnificent views that showcase the city's spread and the vast sea beyond. The fort has grown to be a popular spot for outdoor activities including picnics and photography. It's vital to remember that the fort is now in a condition of decay with no active government upkeep, despite its historical and recreational value. Despite this, tourists looking for a window into Mumbai's past and a distinctive viewpoint on the present are nevertheless drawn to the city by its rich history and alluring beauty.

Located in Mumbai, India's Sewri neighborhood, Sewri Fort is historically significant as a British-built strategic military bastion from the 17th century. With a commanding view of Mumbai's eastern shore, its position as a watchtower made it essential to keep an eye out for any hostile ships that may pose a danger as they approached the port. Built with solid stones and shaped like a circle with a circumference of about sixty meters, the fort was a monument to the military architecture of the era.

### *3.3.Sewri Fort:*

Sewri Fort is a powerful construction with walls that reach an astonishing height of around 5 meters and a thickness of 1.2 meters. The main gateway, which has three openings and looks eastward toward the sea, highlights its function in protecting the coastal area. The fort has served a variety of functions throughout the years, including housing Indian independence fighters during the 1857 uprising against the British. In addition, during World War II, it served as a military base for British soldiers.

The majority of the Sewri Fort's original building has been reduced to ruins, despite the fort's rich history and contributions to several ages. But what keeps drawing people back to the fort is its expansive perspective of the eastern shoreline and the contemporary Mumbai cityscape. In addition to getting a look into the past, visitors may experience a striking visual contrast

with the busy city that has sprung up around this historical relic. Sewri Fort is an evocative reminder of centuries of change and a physical connection to Mumbai's military history and past.

### *3.4. Revdanda Beach*

Revdanda Beach is a reminder of a multi-century past that is rich and diverse. When the Portuguese first set foot on its beaches in the early 16th century, it gained great historical importance. On the coastline at that time, the Portuguese built a chapel and a fort. The Marathas, who had a strong position in the area at the time, constituted a danger, which is why the fort was strategically located. Over time, the balance of power at the fort changed. An important turning point in the history of the area occurred when the Marathas took possession of the fort in the 18th century. Later on in the war between the Marathas and the British, known as the Battle of Revdanda in 1818, this fort would prove to be very important. In the end, the British prevailed, turning the fort into a watchtower for their British Raj.

The historical story of Revdanda Beach is further enhanced by the presence of the St. Francis Xavier Church. This church is one of the oldest in Maharashtra, having been built by the Portuguese in the early 16th century. With a stunning front and a plethora of antiquities and artifacts that provide a window into the past, it stands as a remarkable example of Portuguese architecture. Revdanda Beach served as an important port for the movement of commodities to and from Mumbai during the British period. This enhanced its historical significance as a center of strategic and commercial activity. Revdanda Beach has developed into a well-liked vacation spot today, drawing guests with its picturesque scenery and old ruins. Standing tall and strong, the fort and the chapel preserve the echo of a bygone period by acting as concrete reminders of the happenings on this stretch of coastline. Discovering the ruins of the chapel and fort enables tourists to engage with Revdanda Beach's rich past and recognize its significance in Maharashtra's historical narrative.

## **4. CONCLUSION**

The research set out to discover and highlight Mumbai's historical and cultural gems, illuminating lesser-known sites that make a substantial contribution to the city's rich legacy. 85 replies from a range of age groups were obtained using the study approach, which included a thorough inquiry utilizing a well-structured Google Form with a variety of questions. The results showed clear preferences for travel, with a discernible trend toward beach and mountain locations, indicating a move toward experiences that emphasize nature. In addition, a noteworthy proportion of participants conveyed a desire to investigate lesser-known locations, underscoring the need for distinctive and non-traditional travel encounters. The study suggested a smartphone app that would give historical context and details about monuments to close the generational divide and promote a closer relationship with Indian culture. The app would be modeled after popular global models such as Japan's World Heritage App and the World Heritage App.

Mumbai's hidden treasures, including Banaganga, Sion Fort, Sewri Fort, and Revdanda Beach, were highlighted to highlight their cultural and historical importance. By highlighting these lesser-known spots, the study hopes to inspire locals and visitors to go beyond typical tourist destinations and support the region's cultural and economic development. In the end, the research emphasized how important it is to protect and celebrate India's rich cultural legacy while also encouraging a feeling of national pride and community among its citizens.

## REFERENCES

- [1] P. A. Permatasari, A. A. Qohar, en A. F. Rachman, “From web 1.0 to web 4.0: The digital heritage platforms for unesco’s heritage properties in Indonesia”, *Virtual Archaeol. Rev.*, 2020, doi: 10.4995/var.2020.13121.
- [2] J. G. Andrade en P. Dias, “A phygital approach to cultural heritage: Augmented reality at regaleira”, *Virtual Archaeol. Rev.*, 2020, doi: 10.4995/var.2020.11663.
- [3] B. Csurgó en M. K. Smith, “Cultural Heritage, Sense of Place and Tourism: An Analysis of Cultural Ecosystem Services in Rural Hungary”, *Sustain.*, 2022, doi: 10.3390/su14127305.
- [4] G. Foster, “Circular economy strategies for adaptive reuse of cultural heritage buildings to reduce environmental impacts”, *Resour. Conserv. Recycl.*, 2020, doi: 10.1016/j.resconrec.2019.104507.
- [5] S. Blanco-Pons, B. Carrión-Ruiz, J. Luis Lerma, en V. Villaverde, “Design and implementation of an augmented reality application for rock art visualization in Cova dels Cavalls (Spain)”, *J. Cult. Herit.*, 2019, doi: 10.1016/j.culher.2019.03.014.
- [6] D. R. Stiller en W. Beex, “Apps under the surface. Problems with cultural heritage apps”, *Stud. Digit. Herit.*, 2017, doi: 10.14434/sdh.v1i2.23232.
- [7] S. J. Barnes, “Heritage protection and tourism income: the tourism heritage Kuznets curve”, *Tour. Rev.*, 2022, doi: 10.1108/TR-03-2022-0125.
- [8] S. Jiang, B. Moyle, R. Yung, L. Tao, en N. Scott, “Augmented reality and the enhancement of memorable tourism experiences at heritage sites”, *Curr. Issues Tour.*, 2023, doi: 10.1080/13683500.2022.2026303.
- [9] V. Barrile, A. Fotia, G. Candela, en E. Bernardo, “Geomatics techniques for cultural heritage dissemination in augmented reality: Bronzi di riace case study”, *Heritage*, 2019, doi: 10.3390/heritage2030136.
- [10] B. Stichelbaut, G. Plets, en K. Reeves, “Towards an inclusive curation of WWI heritage: integrating historical aerial photographs, digital museum applications and landscape markers in ‘Flanders Fields’ (Belgium)”, *J. Cult. Herit. Manag. Sustain. Dev.*, 2021, doi: 10.1108/JCHMSD-04-2020-0056.
- [11] S. N. Tan en K. H. Ng, “Gamified Mobile Sensing Storytelling Application for Enhancing Remote Cultural Experience and Engagement”, *Int. J. Hum. Comput. Interact.*, 2022, doi: 10.1080/10447318.2022.2144121.
- [12] Z. S. Seidametova, Z. S. Abduramanov, en G. S. Seydametov, “Using augmented reality for architecture artifacts visualizations”, in *CEUR Workshop Proceedings*, 2021.
- [13] F. Haq, J. Seraphim, en A. Medhekar, “Branding heritage tourism in Dubai: A qualitative study”, *Adv. Hosp. Tour. Res.*, 2021, doi: 10.30519/ahtr.782679.
- [14] R. Prayuda, Syafrinald, D. Akbar, Nurman, en D. V. Sary, “Development of Penyengat Island Area as an International Tourism Area Based on Heritage Tourism”, *Int. J. Sustain. Dev. Plan.*, 2022, doi: 10.18280/ijstdp.170434.
- [15] F. Nevola, T. Coles, en C. Mosconi, “Hidden Florence revealed? Critical insights from the operation of an augmented reality app in a World Heritage City”, *J. Herit. Tour.*, 2022, doi: 10.1080/1743873X.2022.2036165.

- [16] P. Bhowmik, “Heritage Tourism: a bibliometric review”, *Anatolia*, 2021, doi: 10.1080/13032917.2021.1875250.
- [17] I. G. R. N. Wimalasuriya en A. Kapukotuwa, “Augmented Reality-enabled Mobile Apps for enhancing Value-Based Interpretation at Cultural World Heritage Sites of Sri Lanka”, *TRIVALENT* □□□□□□□□□□ *J. Archaeol. Tour. Anthropol.*, 2021, doi: 10.4038/tjata.v2i2.47.
- [18] I. Ramos-Soler, A. M. Martínez-Sala, en C. Campillo-Alhama, “ICT and the sustainability of world heritage sites. Analysis of senior citizens’ use of tourism apps”, *Sustain.*, 2019, doi: 10.3390/su11113203.
- [19] Ž. Gaižutytė-Filipavičienė, “Jewish heritage in the creative cities of central and eastern Europe: Tourism, technologies and prosthetic memory”, *Creat. Stud.*, 2020, doi: 10.3846/cs.2020.6079.
- [20] O. Soto-Martin, A. Fuentes-Porto, en J. Martin-Gutierrez, “A digital reconstruction of a historical building and virtual reintegration of mural paintings to create an interactive and immersive experience in virtual reality”, *Appl. Sci.*, 2020, doi: 10.3390/app10020597.

## CHAPTER 5

### A BRIEF DISCUSSION ON CRAVINGS

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#### **ABSTRACT:**

The global technological sector has undergone substantial growth and advancement, fostering collaborations with various industries, including agriculture, business, education, and food. This progress has effectively addressed intricate challenges and elevated the capabilities of diverse sectors. A recent phenomenon gaining traction in the technology landscape is the "Metaverse," an emerging 3D-enabled online environment that amalgamates cutting-edge technologies such as AI, AR, VR, and MR to deliver an immersive user experience. This experiential realm has the potential to span various domains like sports, education, food, business, lifestyle, and fashion. Notably, research indicates a rapid evolution in the food industry, incorporating modern technologies to offer a virtual global food experience. Consequently, this paper endeavors to establish a Metaverse space that provides a distinctive and gratifying encounter with Indian cuisine. By uniting the realms of food, experience, and technology, the paper aspires to set a new benchmark in India's Food Industry.

#### **KEYWORDS:**

Augmented Reality, Cravings, Metaverse, Virtual Reality.

#### **1. INTRODUCTION**

Starting a paper is an important endeavor, and my experience was no exception. Like many other paper papers, mine went through many versions before arriving at its final draft. I knew that my paper had to be something that made me happy and fulfilled, so I decided to make it all about food. As a passionate foodie, the attraction of the large food sector lured me in and started an interesting but difficult journey. This paper book painstakingly details my journey from conception to completion, revealing the detours and turns that ultimately led me to the fulfillment of my capstone paper. After deciding to work on a paper, the next step was to identify the particular area of interest. I've always had a strong interest in food, therefore it seems sensible to focus my research on this area [1], [2]. When I thought back on my academic career, I realized that the majority of my previous assignments had also had a food theme, which fueled my desire to explore the topic further in my paper and furthered my interest in the topic. But my goal went beyond just doing a traditional paper about food branding or packaging I wanted to make something completely original, one-of-a-kind, and revolutionary. I came up with a lot of paper ideas throughout the ideation process since I was obsessed with finding an undiscovered niche in the food market. I wanted to provide something new and creative.

The information I learned in my sixth-semester Advanced Research seminar course served as the basis for my original paper idea and my final paper paper. The notion of "Cloud Kitchens," a relatively recent phenomenon in the culinary sector that allows companies to function without a physical storefront, caught my interest as I was exploring possible paper ideas. This idea intrigued me, so I looked into the possibilities of creating feature-rich software to help cloud kitchens in India. However further investigation showed that releasing a second app would be unfeasible, so I had to abandon this plan. My third and last concept came from the conclusion of my ideas, which built on the preceding one by examining the distinctive way that food

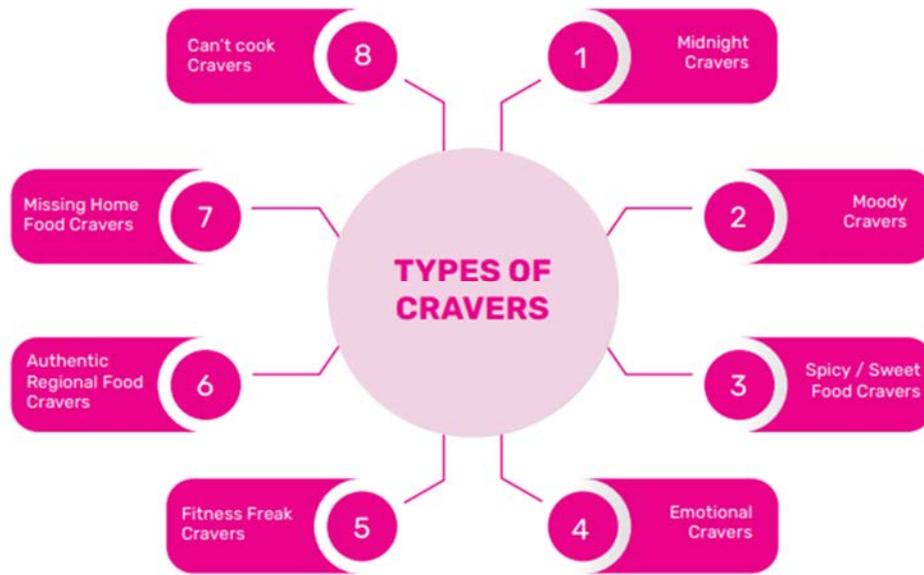
cravings might be satisfied. Examining the science behind appetites and the revolutionary effects of contemporary technology, I imagined using immersive technologies such as AR and VR to provide a comprehensive culinary experience. This idea sought to go beyond national borders, giving individuals all across the globe the chance to partake in unique and fulfilling culinary experiences [3], [4]. The concept was appealing as it was centered on giving customers an unforgettable experience with a variety of Indian food. To confirm its viability in the present technical environment, I conducted a thorough investigation into the matter.

My long-lasting love for the food and beverage sector first drew me into well-known areas. But since I knew I had to push myself, I started a novel and ambitious endeavor in the same field. My dream was to provide a cutting-edge dining experience for other foodies with strong appetites, to comprehend, recognize, and fully satisfy their needs. I wanted to make the process of satisfying food desires immersive and effortless by prioritizing the needs and preferences of the client. Subsequent investigation has shown how cutting-edge technology like augmented and virtual reality may be used to improve this experience. My interest sprang from the idea of combining technology and the culinary arts to create something unique and enticing. In addition to being in line with my interest, this study delves into unexplored areas that have the potential to completely transform the food sector.

Two rounds of interviews were conducted for the study; the first set sought to explore people's perceptions of cravings, while the second set comprised industry experts with a focus on contemporary technology. I conducted interviews with a wide range of individuals, including friends, relatives, and professionals in the field, to get a thorough understanding of people's perspectives on cravings and the viability of incorporating contemporary technology into the food business [5], [6]. Beyond the traditional approach to problem-solving in academic papers, the goal of the study is to provide an immersive and distinctive experience of satiating food cravings via the exploitation of technologies like augmented reality.

It aims to create a compelling link between each person's unique eating desires and the improved satisfaction that comes from satiating them. The main study, which included interviews with people in a range of relationships and age groups, gave important insights into the varied viewpoints and attitudes on cravings. This thorough comprehension guided the examination of several cravers, which helped to provide the classification shown in Figure 1. Overall, the goal of this article is to revolutionize how we perceive and satisfy our food needs by using contemporary technology to provide people with a unique and immersive experience.

The general public's understanding of immersive technologies like virtual reality (VR) and augmented reality (AR) is growing quickly. Numerous sectors have already been significantly impacted by AR and VR, and many more might be transformed in the future. AR and VR have been widely adopted by the gaming industry, as seen by the enormous success of AR games like *Pokemon Go* and VR games like *Beat Saber*. VR and AR have also been quickly embraced by the entertainment sector for immersive experiences like 360-degree films and virtual concerts [7], [8]. Applications for AR and VR are also being found in industries including retail, healthcare, and education. Through interactive learning experiences that let students explore and learn in virtual settings, augmented reality and virtual reality may be used in education. More immersive and interesting experiences might be had with AR and VR, which have the power to completely change the way we engage with technology and one another. We have a great deal of potential for these technologies to change the way we interact with the world around us, so in the years to come, we can expect to see even more creative uses of AR and VR.



**Figure 1: Types of Cravers.**

Since virtual reality technology is still in its infancy, most individuals cannot readily access it at this time. Few people can afford virtual reality since the gadgets required to enjoy it may be quite pricey. Moreover, the charges related to the upkeep and maintenance of the devices are included in the total cost of the technology, beyond the original equipment purchase. These accessibility obstacles restrict the potential applications of virtual reality technology and make it hard for a larger audience to use it. It will thus take some time for this technology to become generally accessible and within the reach of the average person. Immersion technologies have great promise for future developments and applications that might revolutionize a variety of sectors, such as retail, healthcare, education, and entertainment.

Future developments in immersive technologies should be anticipated, including enhanced hardware and software as well as the creation of new use cases and applications. It's crucial to keep in mind that, given its present high cost and restricted accessibility, virtual reality technology may not be appropriate for your paper at this time, even when you have a firm grasp on the idea and topic of your work [9], [10]. Without the required equipment, virtual reality offers a unique and immersive experience that cannot be duplicated. But because augmented reality is more widely available and doesn't need any particular hardware, it's a perfect match for your article. This technology, which is readily accessible via a mobile device, enhances the objective of your article, which is to provide a visual experience.

Including a 360-degree view option would improve your paper even more by making it more dynamic and interesting.

With ideas like interactive menus and augmented menus that let clients see their meals in three dimensions before placing an order, augmented reality has already been effectively used in the food industry in many different nations. Offering great dining experiences has also made extensive use of augmented reality. Your paper's concept is original, fascinating, and completely in line with the prevailing market trends. Artificial intelligence and augmented reality can be used to make your paper feasible and perhaps very influential. It is just a matter of time before augmented reality technology is more extensively used in the Indian food business as well, given the country's shifting market patterns.

## 2. LITERATURE REVIEW

*Meule* delved into the topic of dieting, often accused of triggering food cravings. Such cravings induced by dieting might be influenced by physiological factors like nutritional deprivation or psychological mechanisms such as the ironic effects of suppressing thoughts about food. However, this concept is frequently grounded in cross-sectional discoveries, leaving the causal link between food deprivation and cravings uncertain. Experimental studies propose that brief, selective food deprivation does heighten cravings for restricted foods. Nevertheless, these studies also reveal that food cravings can be viewed as a conditioned response and, consequently, can be unlearned. Support for this comes from intervention studies, indicating that prolonged energy restriction leads to a decrease in food cravings among overweight adults. The negative reputation of dieting for exacerbating food cravings is only partially accurate, as the connection between food restriction and craving proves to be more intricate. While short-term, selective food deprivation may indeed amplify food cravings, long-term energy restriction appears to diminish them, implying that food deprivation can also facilitate the extinction of conditioned food craving responses [11].

*Filippone et al.* analyzed the psychological and eating processes involved in how exposure to social media might contribute to the emergence of food cravings and problematic eating behaviors. A group of 103 young adults, consisting of 15 men and 88 women, participated in the study, responding to questionnaires that assessed their impulsivity, eating habits, food cravings, and the amount of time spent on social media. The findings revealed two significant serial mediations. A positive correlation was observed between the time spent on social media and food craving scores, and this relationship was indirectly influenced by cognitive impulsivity. Additionally, a positive correlation emerged between cognitive impulsivity and food craving scores, with cognitive restraint acting as a mediating factor. Enhancing our comprehension of the connections among social media, food cravings, and eating behaviors, including cognitive restraint, could provide valuable insights for researchers and clinicians, aiding them in guiding young adults in their utilization of social media for food-related content [12].

*Meule* investigated the Food Cravings Questionnaires, which are commonly used instruments to gauge the frequency and severity of food desire episodes. Studies that have looked at certain cut-off scores that would point to pathologically high levels of food cravings are few, nevertheless. The Food Cravings Questionnaire-Trait-reduced (FCQ-T-r) was utilized to measure the sensitivity and specificity of scores to distinguish between people who had ( $n = 43$ ) and those who did not ( $n = 389$ ) have "food addiction," as measured by the Yale Food Addiction Scale 2.0. A cut-off score of 50 on the FCQ-T-r demonstrated high sensitivity (85%) and specificity (93%), effectively differentiating between persons who had and did not have a "food addiction." A score of 50 or above on the FCQ-T-r may represent clinically significant levels of trait food appetite. Evidence level V: a descriptive study [13].

*Abdella et al.* looked at the effects of body mass index (BMI), gender, age, fat mass, and the obesity-associated (FTO) genotype. The revised 18-question Three-Factor Eating Questionnaire (TFEQ-R18) was administered to 475 individuals (252 females and 223 men, BMI:  $25.82 \pm 6.14$  kg/m<sup>2</sup>, age:  $30.65 \pm 14.20$  years) to assess emotional eating, uncontrolled eating, and cognitive constraint. They also completed the Food Appetites Inventory (FCI) to evaluate their appetites for fast food, sweets, fats, and carbs. Genotyping was done on DNA samples to check for the obesity-related rs9939609 polymorphism in the FTO gene. To determine correlations between TFEQ-R18 and FCI subscales for the whole study group as well as age ( $\leq 25$  years vs  $>25$  years) and sex subgroups, the questionnaire data was analyzed. Lastly, the associations between BMI, cognitive restriction, and food desires were examined

using mediation analysis. There was no correlation seen between the FTO AA + AT genotype with differences in eating behavior or food-seeking ratings, but rather with an elevated BMI. Age was associated with higher BMI and lower food desire ratings, with the impact being more noticeable in women than in males. Furthermore, in the group of those under 25, lower ratings for food cravings were associated with greater cognitive inhibition. This group's mediation study showed that cognitive restraint mediated the relationship between BMI and decreased food cravings, indicating that people in this age range use cognitive constraint to control their appetites. The results indicate that the complex links between eating habits and food cravings are influenced by a combination of factors, including age, sex, FTO genotype, and BMI. These variables also interact to impact the positive association between age and BMI, which is consistent with earlier research [14].

*Anguah et al.* hypothesized that even after a relatively short (4-week) period of carbohydrate (CHO) restriction, there would be observable decreases in food cravings and improvements in eating habits, and that these changes would be associated with weight loss (WL). Over four weeks, a group of adult volunteers ( $n = 19$ , 53% male, mean  $\pm$  SD, BMI =  $34.1 \pm 0.8$  kg/m<sup>2</sup>, age  $40.6 \pm 1.9$  years) followed a diet limited in carbohydrates (14% CHO, 58% fat, and 28% protein). The Food Craving Inventory (FCI) was used to measure both general and specific desires before and after the intervention, and the Three-Factor Eating Questionnaire was used to assess eating patterns. Food cravings showed a considerable decline by week 4, with women showing much higher declines in sweet cravings than men. A significant 102% increase in dietary constraint was seen, although disinhibition and hunger ratings dropped ( $p < 0.05$ ) to 17% and 22%, respectively. Except for high-fat cravings, which decreased less in those who dropped the greatest weight ( $r = -0.458$ ,  $p = 0.049$ ), desire reductions did not correspond with changes in body weight. Several FCI subscales showed a negative connection with dietary constraint modifications. This suggests that reducing food desires for a brief period with a low-CHO diet worked. These results imply that those who were able to effectively lose weight on a low-CHO diet but who at first had desires for items rich in fat were able to satiate those needs, maybe because the limited diet included a lot of fat [15].

### 3. DISCUSSION

I extensively researched and studied many components of my project in-depth before I started to directly study and grasp the numerous technical discoveries in the food sector. I studied the distinctions between cravings and hunger, as well as the technical definition of cravings, in the first part of my secondary study. My goal was to comprehend the psychological and emotional underpinnings of human desires as well as the many elements that impact them. In addition, I looked into several hypotheses and presumptions about appetites and tried to comprehend the idea of "experiential food." My research's second half was devoted to developing a thorough grasp of contemporary immersive technologies including MR, VR, AI, and AR. I researched their effects in other domains, particularly their possible uses in the food sector. I also looked at case studies of effective uses of these technologies in the food industry. Finally, I looked at the idea of a metaverse area [16]. After carefully investigating and analyzing every facet of my project including a detailed examination of cravings and their causes as well as learning everything there is to know about cutting-edge immersive technologies like AR, VR, AI, and MR, I concentrated on comprehending how these technologies would affect different industries, particularly the food sector.

Food cravings are strong wants or hankerings to consume certain meals that may happen at any time and be brought on by several different things. It's important to differentiate between

cravings and hunger since the latter may be intense and difficult to resist. They usually appear as a strong or pressing need for a certain kind of food, which may last until the demand is sated. The need may become more intense and difficult to resist because of the expectation of enjoying the flavor, texture, and perfume of the desired meal. While everyone's experience of food hunger is unique, studies reveal that they are quite prevalent, with over 90% of individuals reporting having had one at some time in their lives. According to research, 97% of women and 68% of men reported experiencing food cravings, indicating that women tend to experience cravings more often than men [17], [18]. While desires for food are common, frequent and strong cravings may be a sign of a problem with your health or a bad connection with food. As a result, it's important to monitor the frequency and kind of your food cravings and, if needed, seek expert guidance.

### *3.1.Hunger:*

The physical feeling that appears when your body requires nourishment and food is called hunger. When your body's energy stores are low, hunger is a normal physiological reaction that lets you know your body needs food to be healthy. Physical manifestations of hunger, such as weakness, dizziness, and rumbling in the stomach, are common. A physiological reaction known as hunger occurs when the body requires nutrition.

### *3.2.Craving:*

While cravings are intense desires for a certain kind of food, they are often brought on by emotional or psychological issues. Contrarily, psychological or emotional variables like stress, boredom, or the need for pleasure are usually what trigger cravings. Items like chocolate, ice cream, or pizza are often linked to cravings, which may be set off by outside signals like the scent or sight of these items. Actual physiological demand for food may not always be reflected in cravings, which are often motivated by psychological or emotional causes.

Many different things might cause cravings, making them a complicated phenomenon. These may consist of boredom, tension, hormone fluctuations, or social signals. Cravings may strike out of nowhere sometimes, or they might be connected to a particular cuisine that someone has heard, smelled, or seen. A variety of inputs, including auditory, olfactory, and visual signals, may be very influential in initiating cravings. Furthermore, a person's emotional condition might influence their desire to eat. Cravings that are psychological, like those brought on by food signals, may be quite strong. A tantalizing commercial or social media post, for instance, might quickly start a yearning for a certain meal [19], [20]. Cravings may also be influenced by internal variables including hormones, hormone imbalances, sleep deprivation, physical exercise, dehydration, and a diet heavy in processed foods. Dopamine released by certain meals stimulates the brain's reward system and strengthens the link between that food and pleasure. Moreover, food cravings are closely linked to the brain areas in charge of memory, pleasure, and reward. Cravings are often brought on by stress and boredom, therefore learning constructive coping techniques is crucial to controlling them.

Complex reactions to food and cravings are often distinguished by their strength and uniqueness. Despite their extraordinary prevalence, they do not imply a higher caloric consumption. Food cravings are mostly influenced by psychological and emotional variables; stress, worry, melancholy, and boredom are all known to cause desires for certain meals, especially ones rich in calories. Given that certain meals cause the production of dopamine and other "feel-good" chemicals in the brain, some people may utilize food as a kind of self-medication. Desires may also be influenced by prior encounters and connections with certain meals; happy recollections of favorite foods from childhood often trigger desires during stressful or anxious moments. A food desire is a complex psychological, cognitive, and

emotional experience that includes thoughts about food, mood swings, and other psychological aspects linked to memory, pleasure, and reward. A behavioral component is often present as well, with people actively searching out and eating the desired meal. Food has a tremendous influence on us and may change us in a variety of ways. Particularly potent stimuli for food desires and decisions are emotions and moods. People who comprehend the intricate connection between psychological and emotional elements and cravings are better able to control their urges.

Food cravings are portrayed negatively because of misunderstandings and societal attitudes that classify them as addictive and undesirable behaviors. The food industry, which misrepresents desires as a personal weakness or a nutritional need, has contributed to the spread of these misconceptions. Cravings are a typical aspect of being human and do not always mean that there is an issue with eating. However, the consensus is that urges should be restrained or managed, which gives rise to dangerous ideas and a false perception of addiction. This is particularly troublesome when it comes to food since there is no evidence linking the phrase "craving" to real food intake. Diet culture, which categorizes foods as either "good" or "bad" and perpetuates the notion that certain meals should be avoided at all costs, also adds to the negative perception of cravings. When these foods are eventually ingested, this may result in strong cravings as well as emotions of guilt or shame.

Studies reveal that it's not always necessary to resist or disregard our desires for certain meals. Instead, we may learn a great deal from our appetites and use them as a tool to identify our body's fundamental demands and requirements. What if we adopted a new viewpoint in which food was seen as just food—neither good nor bad? Our connection with food may become healthier and more self-care when we let go of the limitations we put on ourselves. Numerous things, including pressures and underlying emotions that we may not be aware of, might contribute to our food desires. Rather than hurting ourselves with restricted diets, we may enjoy our cravings and embrace intuitive eating. It's critical to understand that cravings are multifaceted messengers that may provide us with insightful information from the inside rather than acting as the adversary. We may better control our desires and find immediate satisfaction in gratifying them if we make peace with food and permit ourselves to enjoy whatever we love to eat.

A good meal involves more than simply filling our bellies; it also involves enjoying the tastes, textures, and scents that cuisine has to offer. It's about enjoying each taste and realizing how much work went into making that meal. The setting and ambiance may significantly improve our whole eating experience, whether we're cooking together or eating out. Our perception of food is greatly influenced by our senses. Together, smell and taste provide a symphony of tastes that may entice our senses and make an enduring impression. Our eating experience also depends on how the food is presented. A dish's presentation might increase our desire to taste it by making it seem more enticing and tasty. Another crucial element to take into account while enjoying food is texture. The way food feels in our mouths has a big impact on how much we like it. While an unpleasant texture might turn us off, food with a good feel may be more pleasurable to consume. Apart from our fundamental senses, auditory perception might also impact our eating experience. The sound of freshly popped popcorn or the sizzle of a steak on a hot grill may enhance the whole sensory experience. Restaurant owners are increasingly concentrating on developing a more comprehensive dining experience as the food business continues to change. Every detail, from the mood and music to the lighting and décor, has been thoughtfully chosen to provide a memorable and pleasurable eating experience. Given the multitude of variables involved, it is evident that a satisfying culinary encounter entails more than simply a meal; rather, it creates a lasting memory.

In computer science and engineering, artificial intelligence (AI) is the study of building computers that are capable of activities that normally require human intellect. It simulates several cognitive functions, including perception, logic, learning, and creativity. AI software can automatically learn from patterns or characteristics in the data by integrating massive volumes of data with intelligent algorithms, rapid, iterative processing, and processing speed. Expert systems, machine learning, voice recognition, natural language processing, and vision are just a few of the many uses for artificial intelligence. Cognitive abilities like learning, reasoning, self-correction, and creativity are the main emphasis of AI programming. Because AI can alter the way we work, play, and live, it is crucial. It has been successfully used in business to automate human labor-intensive operations, resulting in higher productivity and efficiency. Artificial intelligence (AI) is capable of doing some activities much more effectively than humans, especially those that are repetitive and detail-oriented. The main benefits of artificial intelligence (AI) are that it can complete activities faster, handle complicated tasks without large financial investments, and work continuously for 24 hours a day. AI offers broad commercial potential across businesses and can help improve the skills of people with disabilities. Furthermore, AI may help in decision-making by accelerating and improving the process. Artificial intelligence (AI) finds several uses in daily life, including voice assistants, smart keyboards, entertainment streaming apps, travel and navigation, and face recognition technology. Artificial intelligence seems to have a bright future as long as technology continues to progress. Artificial intelligence (AI) has the potential to completely change how we live, work, and communicate as it develops.

### *3.3. What is Augmented Reality?*

A multimodal interactive experience, augmented reality blends computer-generated material with the physical environment via visual, aural, haptic, somatosensory, and olfactory senses. This technique creates a composite vision that enhances the user's engagement with reality by superimposing computer-generated pictures over the user's perspective of the actual world. The main objectives of augmented reality (AR) are to draw attention to certain aspects of the physical environment, deepen our comprehension of those aspects, and provide astute and easily understandable information that has practical implications. Three fundamental components make up augmented reality (AR) systems: a blend of the real and virtual worlds; real-time interaction; and precise 3D registration of virtual and real things. An estimated 1.73 billion devices, including smartphones and other gadgets, will use augmented reality by 2024. Marketing, medicine, education, journalism, decor, shopping, fashion, sports, manufacturing, logistics, maintenance/repair, remote assistance, navigation, art, gaming, military, construction, retail, and industry are just a few of the industries where augmented reality has many applications. By increasing operational effectiveness, AR is also transforming the industrial sector and offering major advantages in terms of productivity, efficiency, and safety. AR interfaces may save manufacturing, maintenance, and design costs while improving the working environment. Augmented reality (AR) will become less of a niche technology and more widely used as more customers embrace it. Although smartphones are now the primary device for augmented reality, the development of lightweight, reasonably priced, and discreet headgear is necessary for general public acceptance. Despite this, customers are starting to have greater access to AR technology, and given its numerous advantages and applications, it is expected to continue to gain popularity and become more important in a variety of sectors.

### *3.4. What is virtual reality?*

A completely digital, computer-generated, three-dimensional virtual reality immerses the user in a simulated world complete with interactive elements and sensory input. Pose tracking and 3D near-eye displays are used by this technology to create an immersive, realistic experience.

Through a virtual reality headset or helmet, the user is immersed in this world. VR is a cutting-edge technology that has transformed some sectors, including automotive, healthcare, retail, tourism, real estate, interior design, learning and development, entertainment, sports, education, and the arts. Its roots may be traced back to the mid-1950s. By fostering a real-world learning environment, virtual reality (VR) technology has the potential to drastically change the way education is delivered today and increase student engagement. It also has a broad variety of applications in fields including weather forecasting, traffic accident awareness, security, anti-terrorism, and medicine. Users may engage with a 3D world via the use of technology that can generate a virtual environment that seems real or tactile. Today's virtual reality simulations fall into three main categories: semi-immersive, fully immersive, and non-immersive. The possibilities of this technology are enormous, and these simulations are just the beginning. The technology is developing quickly, so even while the present VR headsets are not practical for daily usage, we may anticipate major advancements in the next five to ten years that will make VR more affordable, comfortable, and useful for mass use.

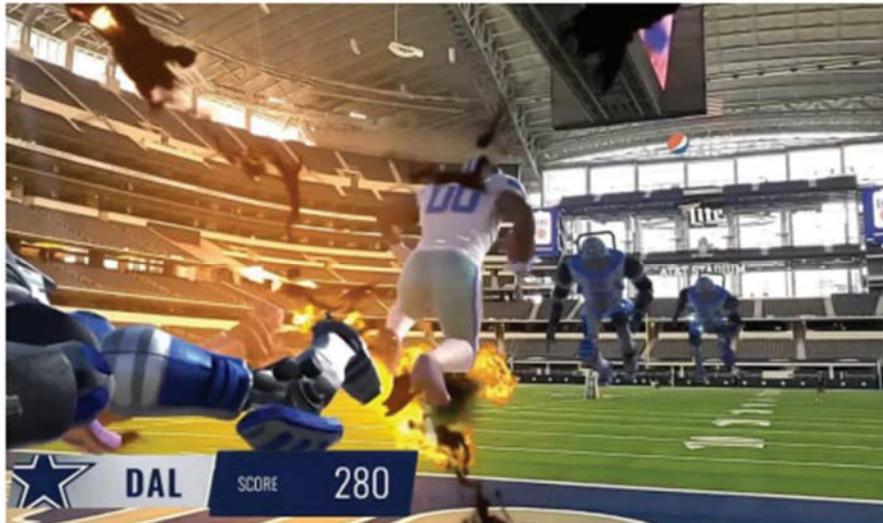
### *3.5. What is Mixed Reality?*

Combining a computer-generated environment with the actual world is known as mixed reality, or MR. It is a fusion of the actual and virtual worlds, where virtual and real-world items may communicate with each other in real-time. With mixed reality, users may engage with a virtual environment in a manner that seems intuitive and natural to them while fully submerging themselves in a simulated world. In mixed reality, virtual and real-world things interact with one another in your actual environment. It is a cross between augmented reality and virtual reality. Mixed reality combines digital and physical aspects to provide a more immersive and engaging experience than either AR or VR, which project digital information onto the actual world and fully submerge viewers in a virtual environment. A quickly developing technology called mixed reality (MR) is altering how we interact with our surroundings. Mixed reality is becoming increasingly complex and popular because of developments in computer vision, graphics processing, display technologies, input methods, and cloud computing. Beyond its present applications in training, education, entertainment, manufacturing, and construction, machine learning (ML) has even more intriguing uses ahead of it. Combining the terms "hologram" with "teleportation," or "holoportation," is just one of many innovations that have the potential to completely change the way people interact and work together over large distances. Mixed reality is also anticipated to have a big influence on image-guided surgery, multi-screen computing, 3D interactions, and interactive training. As mixed reality technology advances, it will surely change how we see and engage with the world around us, enabling intuitive and natural 3D interactions between people, computers, and the environment. Mixed reality has the power to broaden our perspective and provide novel and fascinating experiences, whether it is used for personal or professional purposes.

### *3.6. What is Extended Reality?*

The term "extended reality" (XR) refers to a broad category of immersive technologies that mimic or merge the actual environment with an interactive digital counterpart. Three different types of immersive technologies are included in the term "extended reality" (XR): mixed reality (MR), virtual reality (VR), and augmented reality (AR). Combining or replicating the real world with a virtual one is the main objective of XR, allowing people to engage with both. Through the integration of the five classical senses—sight, hearing, smell, taste, and touch—XR enables computer-generated settings that may merge the real and virtual worlds, or it can create fully virtual experiences. Numerous sectors and businesses, including marketing, real estate, healthcare, entertainment, and tourism, have acknowledged the promise of XR. A multitude of application cases, including the development of immersive educational tools and

captivating brand experiences, are made possible by the adaptability of XR technology. More than 60% of respondents to a recent study predicted that XR will be widely adopted over the next five years, suggesting that it is ready for mainstream acceptance. XR technology is expected to become more significant in influencing how we interact with and perceive the world around us as it develops and improves.



**Figure 2: AR in Sports and Entertainment.**

Based in Los Angeles and London, Nexus Studios debuted its first experience with augmented reality technology in Dallas, transforming the AT&T Stadium into a giant platform for location-based AR visuals. As seen in Figure 2, users of Samsung's 5G-ready phones may play an augmented reality game at halftime, stream holograms of Dallas Cowboys players, snap AR selfies, and access real-time AR scoreboards and analytics. In Figure 3 shown the AR in Military Defence.



**Figure 3: AR in Military Defence.**

Microsoft won the US Army's US\$21.88 billion contract. As per the agreement, Microsoft would provide the US military with approximately 120,000 HoloLens AR headset-based devices for more than a decade. With hand and speech motions, users of the HoloLens AR headset may view holograms superimposed over their real environments and the internet (Figure 3). Soldiers will be able to train, practice, and battle all inside the same system by using it in military operations.

### 3.7. Present-Day Impact of AR & VR:

The food business is beginning to feel the effects of Augmented Reality (AR) and Virtual Reality (VR) technology in many ways, including Improved Customer Experience: By presenting 3D pictures of the food items on the menu or the dishes on their table, augmented reality and virtual reality may provide consumers with an immersive experience. It may also include further details on the food's ingredients, preparation method, and nutritional worth. Virtual Tasting and Testing: Customers may sample the flavor and feel of food products in a virtual setting without actually ingesting them thanks to AR and VR technology. This may assist patrons in choosing meals that meet their tastes. Education and Training: Chefs, waiters, and other employees in the food sector may get training using AR and VR technology. It may assist staff members in learning and practicing in a secure and regulated environment by simulating various circumstances. Marketing and branding: Food businesses may benefit from the usage of AR and VR in interactive and captivating marketing efforts. It may provide clients with an immersive experience while showcasing their items distinctively and imaginatively.

## 4. CONCLUSION

Food cravings are a common and common occurrence that affects individuals of all ages and backgrounds. The hallmark of these appetites is a strong desire for and concentration on a particular food, beverage, or flavor. While some people may give in to their desires outright, others might look for creative methods to sate them without actually eating the food. The technology behind augmented reality, or AR, has advanced dramatically and is now more than just fiction. With the enormous potential to completely transform the food sector, this technology is already a reality and is within reach. By using virtual reality (VR) and augmented reality (AR), companies may develop novel and captivating experiences that take eating to a whole new level. This is known as extended reality (XR). Thanks to the quick development of technology, it is now feasible to digitally create a customized, engaging, and immersive eating experience. With the use of augmented reality (AR) technology, businesses can provide their clients with a distinctive and customized experience by developing digital menus, virtual food displays, and interactive culinary guides. Customers can also see and alter their orders in real-time using XR, giving them more information to choose from when it comes to food. It is important to acknowledge that the implementation of augmented reality technology may encounter obstacles in global marketplaces owing to disparities in technical infrastructure and adoption rates. Still, the food business should keep an eye on AR technology given its rapid advancement and potential to improve consumer satisfaction.

## REFERENCES

- [1] C. L. Yang, J. Schnepf, and R. M. Tucker, "Increased hunger, food cravings, food reward, and portion size selection after sleep curtailment in women without obesity", *Nutrients*, 2019, doi: 10.3390/nu11030663.

- [2] A. Meule, T. Hermann, en A. Kübler, “A short version of the food cravings questionnaire-trait: The FCQ-T-reduced”, *Front. Psychol.*, 2014, doi: 10.3389/fpsyg.2014.00190.
- [3] C. L. Verzijl, B. Gius, R. Schlauch, en D. Rancourt, “The transdiagnostic role of food craving: An application of substance use models”, *Appetite*. 2022. doi: 10.1016/j.appet.2021.105867.
- [4] A. J. Fahrenkamp, K. E. Darling, E. B. Ruzicka, en A. F. Sato, “Food cravings and eating: The role of experiential avoidance”, *Int. J. Environ. Res. Public Health*, 2019, doi: 10.3390/ijerph16071181.
- [5] M. A. White, B. L. Whisenhunt, D. A. Williamson, F. L. Greenway, en R. G. Netemeyer, “Development and validation of the food-craving inventory”, *Obes. Res.*, 2002, doi: 10.1038/oby.2002.17.
- [6] C. N. Kahathuduwa, M. Binks, C. K. Martin, en J. A. Dawson, “Extended calorie restriction suppresses overall and specific food cravings: a systematic review and a meta-analysis”, *Obesity Reviews*. 2017. doi: 10.1111/obr.12566.
- [7] I. T. Cohen, B. B. Sherwin, en A. S. Fleming, “Food cravings, mood, and the menstrual cycle”, *Horm. Behav.*, 1987, doi: 10.1016/0018-506X(87)90004-3.
- [8] R. J. Wurtman en J. J. Wurtman, “Brain serotonin, carbohydrate-craving, obesity and depression”, *Adv. Exp. Med. Biol.*, 1996, doi: 10.1007/978-1-4613-0381-7\_4.
- [9] H. M. McGee, B. Amare, A. L. Bennett, en E. A. Duncan-Vaidya, “Behavioral effects of withdrawal from sweetened vegetable shortening in rats”, *Brain Res.*, 2010, doi: 10.1016/j.brainres.2010.01.033.
- [10] R. A. Carels *et al.*, “Using an acceptance-based behavioral approach as a supplement to obesity treatment: A stepped-care approach”, *J. Context. Behav. Sci.*, 2019, doi: 10.1016/j.jcbs.2019.03.002.
- [11] A. Meule, “The Psychology of Food Cravings: the Role of Food Deprivation”, *Current Nutrition Reports*. 2020. doi: 10.1007/s13668-020-00326-0.
- [12] L. Filippone, R. Shankland, en Q. Hallez, “The relationships between social media exposure, food craving, cognitive impulsivity and cognitive restraint”, *J. Eat. Disord.*, 2022, doi: 10.1186/s40337-022-00698-4.
- [13] A. Meule, “Food cravings in food addiction: Exploring a potential cut-off value of the Food Cravings Questionnaire-Trait-reduced”, *Eat. Weight Disord.*, 2018, doi: 10.1007/s40519-017-0452-3.
- [14] H. M. Abdella, H. O. E. Farssi, D. R. Broom, D. A. Hadden, en C. F. Dalton, “Eating behaviours and food cravings; influence of age, sex, BMI and FTO genotype”, *Nutrients*, 2019, doi: 10.3390/nu11020377.
- [15] K. O. B. Anguah *et al.*, “Changes in food cravings and eating behavior after a dietary carbohydrate restriction intervention trial”, *Nutrients*, 2020, doi: 10.3390/nu12010052.
- [16] W.-R. B., L. R.E., L. M.D., en W. R., “Dietary cravings and aversions in the postpartum period”, *J. Am. Diet. Assoc.*, 1989.

- [17] M. Ferrer-García, J. Gutiérrez-Maldonado, en J. Pla, “Cue-elicited anxiety and craving for food using virtual reality scenarios”, *Annu. Rev. CyberTherapy Telemed.*, 2013.
- [18] T. Ledoux, A. S. Nguyen, C. Bakos-Block, en P. Bordnick, “Using virtual reality to study food cravings”, *Appetite*, 2013, doi: 10.1016/j.appet.2013.09.006.
- [19] M. Ferrer-Garcia *et al.*, “Eating behavior style predicts craving and anxiety experienced in food-related virtual environments by patients with eating disorders and healthy controls”, *Appetite*, 2017, doi: 10.1016/j.appet.2017.07.007.
- [20] M. Ferrer-Garcia, J. Gutierrez-Maldonado, J. Treasure, en F. Vilalta-Abella, “Craving for Food in Virtual Reality Scenarios in Non-Clinical Sample: Analysis of its Relationship with Body Mass Index and Eating Disorder Symptoms”, *Eur. Eat. Disord. Rev.*, 2015, doi: 10.1002/erv.2375.

## CHAPTER 6

### INTEGRATING MINDFULNESS PRACTICES INTO WORKPLACE CULTURE FOR EMPLOYEE WELL-BEING AND ORGANIZATIONAL EFFECTIVENESS

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#### **ABSTRACT:**

The incorporation of mindfulness techniques into the workplace environment and its effects on worker well-being and organizational performance are examined in this review abstract. A rising number of people are interested in using mindfulness treatments to tackle the holistic requirements of workers in response to the changing dynamics of the contemporary workplace. The potential benefits of mindfulness practices, which include self-awareness exercises and meditation, have drawn attention. These activities have been shown to improve mental health, reduce stress, and improve overall employee well-being. An analysis is conducted of the literature on mindfulness programs used in workplaces, with a focus on the positive effects on employee happiness, reduced stress, and enhanced productivity. Moreover, the abstract delves into the relationship between mindfulness and the efficacy of organizations, examining how a mindful atmosphere at work may foster creativity, cooperation, and overall organizational success. This summary provides an overview of recent study results and provides insights into the possible advantages and difficulties of implementing mindfulness techniques in the workplace. The following implications are meant to serve as a roadmap for companies looking to foster a resilient and upbeat work environment that puts their workers' diverse well-being first. This will help the company succeed in the modern workplace.

#### **KEYWORDS:**

Life Balance, Mindfulness Practices, Workplace Culture, Work Life, Workers.

#### **1. INTRODUCTION**

A rising number of people are realizing the tremendous effects that meditation can have in the modern workplace when it comes to building strong well-being support networks, meaningful relationships, and great workplace cultures. The goal of incorporating mindfulness into the workplace culture is to foster a holistic approach that puts workers' mental and emotional well-being above traditional notions of productivity and efficiency. Creating a mindful workplace fundamentally entails bringing awareness and attention to daily tasks [1], [2]. This means instilling a culture of empathy and understanding, supporting people in being present in their work and cultivating a nonjudgmental awareness of what they are feeling and thinking. Being mindful is more than just a catchphrase that is now popular; it is a transforming technique that may improve communication and interpersonal interactions at work. Organizations may enable their workers to handle the pressures of the current work environment with more resilience and concentration by providing venues for mindfulness activities like meditation or introspection. A common commitment to the well-being of the group, trust, and cooperation serve as the cornerstones of positive workplace cultures. Through encouraging an optimistic outlook and lowering stress levels in workers, mindfulness serves as an impetus in this process. People who know how to practice mindfulness are better able to handle the demands of the workplace, which boosts morale and increases job satisfaction [3], [4]. Moreover, mindfulness breaks down divisions and encourages a collaborative attitude by fostering a feeling of connectivity.

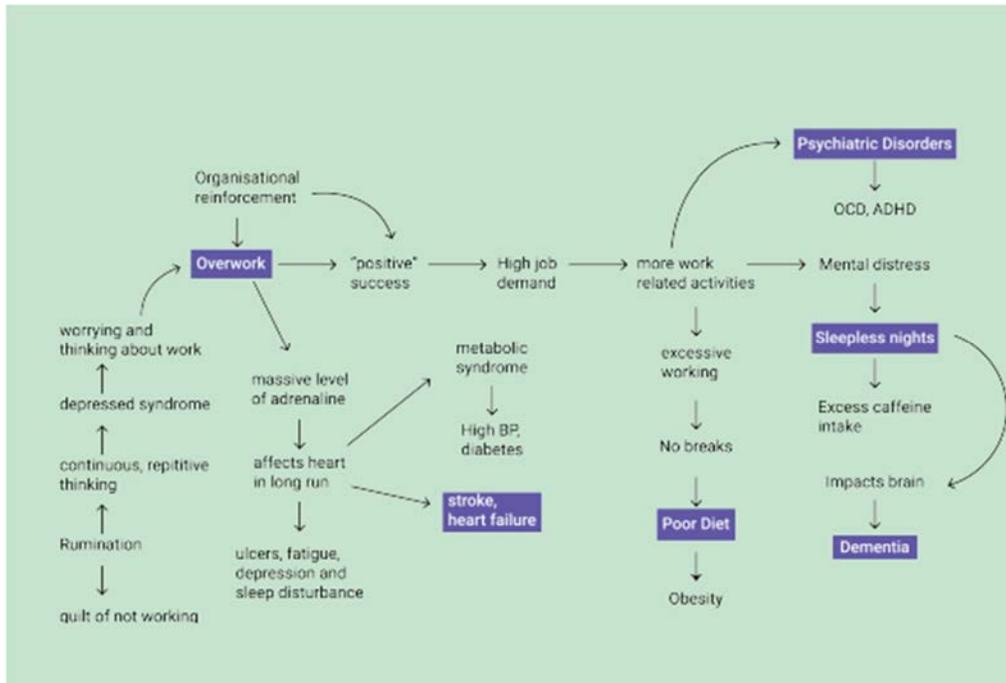
Since mindfulness fosters a greater awareness and regard for a range of viewpoints and experiences, this connectivity goes beyond professional interactions. As businesses embrace inclusion and diversity, awareness emerges as a useful instrument for fostering an atmosphere in which each worker feels appreciated, acknowledged, and seen.

Strong interpersonal ties must be purposefully developed to foster mindful interactions at work. Open communication and attentive listening are two mindfulness techniques that help strengthen bonds among team members and promote a feeling of community. People who are more aware of their feelings and ideas also become more sensitive to the wants and worries of their coworkers. This raised awareness creates the foundation for productive cooperation and teamwork. A group's general cohesiveness may also be improved by adding mindfulness into team-building exercises as it creates a place where people can interact on a level that goes beyond their work responsibilities [5], [6]. Mindful connections are even more important in preserving a feeling of solidarity and camaraderie among employees in a world where distant work and virtual contacts are becoming more common. Creating processes that promote well-being is essential to creating a mindful workplace culture and shows a dedication to workers' overall health. A complete framework for well-being incorporates employee support programs, mental health services, and mindfulness practices.

Giving staff members access to mindfulness training classes or seminars may provide them with useful skills for stress management, improving attention, and boosting mental toughness in general. Organizations may also put in place rules that emphasize work-life balance, emphasizing the value of relaxation and self-rejuvenation. Businesses demonstrate their commitment to fostering a work environment where workers flourish professionally and maintain a healthy balance in their personal lives by integrating mindfulness into wellness initiatives. The incorporation of mindfulness into workplace culture signifies a paradigm change in how businesses view employee well-being. A mindful work culture fosters an atmosphere where positive cultures develop, mindful relationships blossom, and happiness support is deeply established in the corporate ethos benefits that extend beyond the apparent gains in productivity. Adopting mindfulness recognizes the complex interaction between an individual's psychological, emotional, and professional elements of life and is a wager in the human capital of a firm [7], [8]. A thoughtful approach to corporate culture develops as a guiding light as companies traverse the complexity of the contemporary world, encouraging not just achievement in the professional sphere but also the blossoming of the human spirit inside the workplace community.

Being too dependent on one's job or working nonstop has long been seen as a necessary condition for success. The underlying negative consequences on people's wellness, however, are being ignored. The Covid-19 epidemic has led to the emergence of a new kind of excessive production. According to Microsoft India's first yearly Work Trend Index, 57% of Indian workers believe that their new way of working has resulted in excessive workloads. Sixty-two percent of workers say their employers are too demanding of them. 32% of respondents said that working from home with its high digital demands left them tired. The culture of working from home has blended work and personal life, which has an impact on workers and their environment. Workers who are in continual demand for labor put in extra hours out of fear of jeopardizing their jobs and demonstrating their value to the organization [9], [10]. Workers use their leisure time to work in an attempt to fulfill unachievable ambitions and validate their value. Employees in India's creative sector are known to labor under very cruel conditions. Workers are required to put in fifteen hours a day, seven days a week. Even though they are seated next to one another, they are overworked, always on the phone, and have little time for their families. It is looked upon for someone to have the "audacity" to put a personal duty ahead

of work. Overworking has led to a rise in burnout, resignations, and serious health issues over time. Sustaining a healthy work-life balance is critical for both mental and physical health. Overworking has a detrimental effect on the body, leading to stress, anxiety, depression, memory loss, sleep disturbances, and a host of health issues that might result in mortality. Figure 1 shows the stress level due to Toxic Work Culture.



**Figure 1: Represents the stress level due to Toxic Work Culture.**

## 2. LITERATURE REVIEW

Dix D [11] Explained to leaders in a mindfulness-based program their experience, influence, and significance for leadership positions which is Although there is some indication that mindfulness-based programs (MBPs) might enhance leadership abilities, little is known about the actual experiences of program participants. Therefore, it is uncertain how leaders perceive MBPs presented in a corporate setting or how MBPs might support the growth of leaders. This qualitative research investigated the effects of an MBP on leaders' work life and leadership roles, as well as how leaders encountered the intervention as part of a larger leadership development program. Leaders from a multinational manufacturing company comprised the participants who had participated in a three-day mindfulness workshop as part of a program for the development of leadership. They were questioned, and theme analysis was used to examine the data. Eight participants reported having a better knowledge of the effects of work-related stress and increased emotional awareness after completing the MBP, which benefited them in their leadership roles. While the majority of participants found the MBP to be beneficial, two could not see how meditation might improve their leadership abilities.

Hadrian E *et al.* [12] Described work-life balance and the relationship between employer branding and employee retention among the next generation of workers They Examined two models that investigate how the balance between work and life and retention in young workers is related to corporate branding. Methods/Design/Action Plan: This research used Google Forms to distribute surveys to use quantitative methodologies. The models were tested on 189 Generation Z professionals in Greater Jakarta Indonesia using a purposive sample. The

software SmartPLS 3 was used to process the data. Results: A strong correlation was found between balance in life and work, job stress, emotional weariness, and employee retention based on the PLS-SEM study findings. This research found that company branding substantially mediated the association between emotional tiredness and employee retention within Generation Z workers, rather than moderating the association between balance between work and life and employee retention.

McIntyre Miller W and Abdou A. [13] explained building a peaceful and inclusive professional culture which is the enormous duty of establishing supportive, active systems or cultures that welcome the expanding cultural, linguistic, economic, and cognitive variety in the American environment, in addition to the function of teaching students in all academic fields. Many school leaders have adopted school-wide preventative and intervention activities, such as Multi-Tiered Systems of Service (MTSS) for kids' social-emotional and behavioral development, with the shared objective of creating peaceful learning environments that can serve varied learners. Unfortunately, a lot of educators have still encountered major obstacles to sustained systems transformation because of the inherent complexity and dispersion of such attempts. The authors contend that the school-wide initiatives that are most frequently used in classrooms do not have the clear organizational frameworks necessary to incorporate collaborative community building, leadership development, and culturally sensitive practices all of which are critical to the long-term viability of the program.

Olson S [14] described developing well-being and strengthening fortitude in the veterinary field which is Call to Life is to empower veterinary professionals in their goal to promote animal health globally by helping them become more self-sufficient, reduce needless suffering, and become more sustainable. The veterinary field is driven by committed, intelligent, and altruistic people. Sadly, veterinary caretakers throughout the globe are expected by a long-standing, dysfunctional culture to be willing to give up everything their time, their health, and their personal lives to be seen as competent and "worthy." By fusing based on research theory, hands-on activities, debate and deliberation points, and personal anecdotes from a variety of veterinary parents with real-life stories, the book encourages veterinarians by demonstrating that they've got the power and ability to make healthier decisions for both themselves and their profession.

Tran L [15] described instructing and involving foreign students which is The movement of international students has become more volatile due to changes in public health, politics, culture, economy, and natural calamities. The COVID-19 pandemic has caused an unprecedented disturbance to the welfare and flow of foreign students in the new decade. The vulnerability of the existing transactional higher education paradigm in Australia and other key destination nations such as the United States, the UK, Canada, and New Zealand has been exposed by COVID-19. For host institutions, this health issue that is affecting foreign education poses several difficulties. The relationship between colleges and overseas students is more important than ever in a situation like this. This link is essential to the operations and recuperation of the institution, but much more so to the education and welfare of foreign students. This will thus have longer-term effects on the image of host nations and institutions as study destinations as well as their ability to attract and retain foreign students.

Stankevičienė A et al. [16] explained the relationship between work culture and staff happiness is mediated by work-life balance which is the current lack of research about the possibility that work-life balance (WLB) might both directly affect employee well-being and function as a mediator between well-being and work culture. The goal of this research was to look at the mediating role that WLB plays in the link between employee well-being and the structural aspects of work culture, such as operational flexibility, supportive supervision, and temporal

flexibility. The information was gathered via a poll of workers in Lithuanian businesses and government agencies. The study found that every aspect of work culture had a direct and significant influence on employee well-being, influenced WLB, and was a significant element in determining employee well-being. The findings showed that the direct impact of workplace atmosphere on wellbeing was much greater than the secondary impact of WLB.

Sarwar A. et al. [17] Described how a creative environment promotes project success which is These days, innovation is seen to be essential to maintaining a competitive edge. This article aims to determine how innovation influences a project's chances of success at the individual (innovative work behavior, or IWB) and organizational (innovative organizational environment, or IOC) levels. The research also examines the moderating role that gender and workplace culture have on the relationship between creative atmosphere and behavior. Design, procedure, and strategy: Data from 425 personnel in project divisions at the executive, medium, and senior levels of management in Pakistan's paint manufacturing business was gathered using the survey approach. The hypotheses were tested methods in addition to multiple regression. Conclusions: The data analysis's outcome demonstrated that IWB mediates the relationship between IOC and project achievement (PS), which lends credence to the theory of creativity and PS. The findings did not substantiate the moderating influence of gender, although work culture had been suggested as a moderator. Limitations and implications of the research

Børve H [18] explained the effect of males working in kindergartens on workplace culture. There has been a request for more male teachers in kindergartens in Norway and other nations. A rise in the proportion of males might indicate a challenge to established norms and practices. Through the use of a case study methodology, the experiences and practices of the kindergarten staff are highlighted. The empirical portion of this essay is shown by two processes: the division of labor and negotiations over work organization. The results show that although male employees bargain for a flexible work schedule and a division of labor according to their interests, female employees bargain for standardized days at work and norms of sameness.

Maaranen A and Tienari J [19] described By explaining the connections between social networking and excessively macho work environments between hyper-masculine work cultures and social media, it is possible to understand social media as a platform for gender interactions and inequality.

Our empirical emphasis is on the intense social media discourse around MeToo, which originated on New York's Wall Street. Even though there hasn't been much study done on the risk of this movement backfiring, we contend that online responses show how erratic social media movements may be and how they're seen by organizations. Our study demonstrates how often using quite dubious humor, they attempt to normalize gender disparities and polarize viewpoints. Examining the linkages between hypermasculine work cultures and the rise of popular sexism on the internet provides a key framework for examining the constitutive function of social media as an instrument in creating modern workplaces and society.

Rahim N [20] explained the impact of family culture on the work performance of employees in reaching sustainable development goals which is Achieving a harmonious equilibrium between job and family life may be challenging in contemporary industrial society due to the growing demands placed on both work and family life. Prior research examined the link between work-family culture and workers' job performance, but it did not concentrate on any one industry. This research is to examine the link between work-family culture and workers' job performance in a few Malaysian businesses.

### 3. DISCUSSION

The atmosphere we live in every day is called culture. It is your organization's disposition and style. It's what sets your company apart and consists of all of its customs, values, beliefs, relationships, behaviors, and attitudes. The character of your company is essential. Culture is greatly influenced by elements such as people, policies, workplace practices, leadership, and management. A healthy workplace culture strengthens morale, fosters better cooperation, and improves the workspace as a whole. Good cultures are valuable because they attract talented people. Prospective employees assess the company and its culture. Engagement and retention are fueled by a robust, upbeat, well-organized, and well-communicated culture. The way that workers engage with their jobs and the organization as a whole is influenced by culture. It affects contentment and happiness. Strong workplace cultures are associated with higher levels of employee satisfaction and enjoyment, according to Deloitte research. Performance is impacted. Businesses with stronger corporate cultures outperform their rivals in terms of revenue and overall performance. Most significantly, a supportive and caring workplace helps workers feel less stressed and burned out.

Building a solid culture in the workplace is a complex process that goes beyond just putting regulations into place; it calls for a methodical, all-encompassing strategy that penetrates all aspects of a business. In essence, creating an atmosphere where people feel appreciated, inspired, and a part of a common goal is the foundation of creating healthy workplace cultures. Leadership is the first step in this process, as managers and executives create the cultural blueprint. Leaders need to model the principles they want others to follow by cultivating an environment of openness, honesty, and trust. Leaders create a healthy culture that permeates the whole business when they proactively show their dedication to the welfare and career development of their staff. Aligning corporate principles with concrete behaviors is crucial, in addition to leadership. A good culture is built on well-defined values, which serve as a compass for behavior and decision-making at all levels. Instead of just being displayed on conference room walls, these principles need to permeate every aspect of business operations, impacting how staff members communicate, work together, and advance the group's goal. By appreciating the work of both individuals and teams, acknowledgment and celebration of accomplishments big and small further strengthen the cultural fabric and promote a feeling of pride and success. Any workplace culture depends on communication, and healthy cultures flourish when there are open, welcoming, and productive channels of communication. Establishing environments where staff members feel free to express their thoughts, collaborate on projects, and provide criticism without worrying about retaliation must be a top priority for organizations. This candid conversation fosters a continual improvement culture in addition to strengthening interpersonal ties. Communication also includes nonverbal clues, body language, along the design of physical workplaces. It goes beyond just spoken words. The general good vibe of an organization is greatly enhanced by a thoughtful design that promotes accessibility, cooperation, and a feeling of belonging.

Building great environments requires a strong understanding of servant leadership. Instead of just exercising power, leaders who put their teams' development and well-being first create a supportive and inspiring work atmosphere. This strategy incorporates empathy, active listening, and a dedication to eliminate roadblocks to professional growth. Leaders who embrace a servant leadership approach become agents of good change, encouraging a group culture in which mutual achievement is valued above all else. To ensure that the work environment is a mirror of society at large, diversity and acceptance are essential elements of a healthy culture. Organizations need to actively encourage variety in ideas, experiences, and opinions in addition to diversity in demography. Teams that welcome a range of perspectives and experiences

become more creative, flexible, and equipped to handle the challenges of a fast-changing global environment. Beyond simple representation, inclusive cultures foster settings where each person feels appreciated, respected, and encouraged to use their special talents to further the group's goals. A fundamental aspect of good culture is the prioritization of ongoing education and career advancement. A culture of inquiry and resilience is fostered by companies that place a high priority on the professional development of their staff members via training programs, mentoring initiatives, and chances for skill upgrading. A dedication to acquiring knowledge is in addition a tactical advantage in a corporate climate that is changing quickly, but it also shows that a company values the long-term prosperity and job happiness of its employees. A further essential component in creating great cultures is employee well-being. Organizations need to acknowledge the comprehensive aspect of well-being, which includes mental, emotional, and physical health. Wellness initiatives, mental health support services, and flexible work schedules all help create a work atmosphere where workers feel valued and are thus more inclined to be real. As the lines between work and personal life become hazier, companies that put a high priority on well-being not just attract top people but also develop enduringly good cultures.

Developing good workplace cultures is an ever-evolving endeavor that calls for dedication, purpose, and a sincere desire to foster an atmosphere in which people may flourish. Every element has a significant impact on the cultural landscape, from channels of communication to initiatives to promote inclusion and diversity, corporate principles to leadership practices. Good cultures don't just happen; they develop over time as a result of shared values, consistent behavior, and an ongoing dedication to creating an environment where people can find purpose, satisfaction, and a feeling that they belong in their careers. When companies set out on this transformational path, they plant the seeds for a robust and dynamic culture that is essential to long-term success and contented workers.

### *3.1 Creating Mindful Connections:*

A purposeful and purposeful approach that goes beyond surface-level encounters is necessary to weave conscious connections within the intricate web of human relationships. Fundamentally, to establish mindful relationships, we must engage with people with true presence and heightened awareness. This requires more than just attentive listening; it calls for a profound and compassionate comprehension of the feelings, ideas, and life events that mold the people we interact with. When people approach their encounters with non-judgmental awareness, it creates a space where vulnerability and honesty are not only welcomed but also cherished. This is where mindful connections thrive. Recognizing that meaningful interactions add to a fuller tapestry of individual and community experiences, cultivating these relationships is not limited to professional settings but rather to all aspects of life. Self-aware relationships begin with the self. Self-awareness and self-compassion are prerequisites for genuine interpersonal connections. Comprehending one's feelings, intentions, and responses establishes the foundation for more genuine and compassionate relationships. As a kind of compass, self-awareness helps people navigate their interpersonal interactions with a better grasp of who they are and, as a result, a greater respect for the distinctive characteristics of the people around them. Journaling, meditation, and mindful self-reflection may all be very effective tools in this process of self-discovery because they help cultivate the presence and clarity required to form mindful connections.

The foundation of thoughtful interactions in the field of interpersonal relationships is communication. To communicate mindfully, we must not only convey our ideas and emotions but also do so while being aware of the potential effects of what we say on other people. It includes the skill of listening intently to fully comprehend rather than merely react. People who

are present at the moment are more receptive to nonverbal and vocal clues, which cultivates a deeper relationship that extends beyond appearances. Other aspects of mindful communication include making thoughtful word choices, communicating with empathy, and appreciating the value of quiet as a tool for reflection and comprehension. The foundation of conscious relationships is empathy, which enables people to put themselves in other people's positions and accept their viewpoints without passing judgment. This kind of comprehension is a two-way street; people must be able to provide compassion in addition to receiving it. Mindful connections cultivate a feeling of oneness and interconnection by recognizing the common humanity that unites us all. In our relationships with others, this understanding that we are all handling the difficulties of life lays the groundwork for compassion, tolerance, and support. Mindful connections have a critical role in fostering creative and collaborative work cultures in professional contexts. When members of the team feel appreciated, heard, and seen, team dynamics flourish. In this process, leaders are essential because they set the tone for thoughtful relationships within teams. A mindfulness-embodied leader fosters an environment where colleagues feel free to be who they are at work, which boosts creativity and output. Furthermore, attentive leadership is appreciating each team member's contributions and building a feeling of unity and belonging that goes beyond conventional hierarchical systems.

### *3.2 Structuring Well-being Support in Workplace Premises:*

Creating a supportive environment for employees' well-being on the job site is an important initiative that not only improves their mental and physical well-being but also fosters a vibrant company culture. A strategic, all-encompassing strategy that considers the many aspects of workers' health and happiness is necessary for the design and execution of a complete well-being support system. First and foremost, it's critical to create an emotional atmosphere that prioritizes well-being. By including features like ergonomic furniture, sunlight, and areas for rest and physical activity, office designs should support physical wellness. Access to leisure spaces, exercise centers, or peaceful regions may improve workers' well-being by offering chances for stress reduction and physical activity. Promoting a tidy and orderly environment also helps to create order and lessen unneeded stress.

Mental health assistance must be given equal weight to physical well-being. It is essential to have private areas for counseling and mental health consultations so that staff members may seek assistance from professionals without worrying about being judged. Creating mindfulness rooms or meditation areas gives staff members a chance to unwind and reduce stress. Pieces of training or workshops on resilience, stress management, and mindfulness may provide staff members with even more useful skills to help them deal with the demands of the contemporary workplace. Support for well-being goes beyond the actual workplace and includes work-life balance-oriented policies and procedures. Strategies like as reduced workweeks, remote work choices, and flexible working hours acknowledge the variety of demands of workers and enable a smooth transition between work and personal life. An organization's commitment to the welfare of its employees is shown by clear information about these policies and the promotion of their use.

### *3.3 The Forced Shift in Work Premises:*

There were obstacles associated with the growth of the "Work From Home" lifestyle. When the epidemic first started, emails appeared to be coming in nonstop. It became clear that there was a need to appear online as if disappearing meant one's worth was being questioned. Many people lost their jobs in the early phases of the epidemic. The workers felt uneasy and afraid. They had to provide more than was necessary to keep their jobs because of a behavior change. Workers began working after lunch and into the evening. Going to work before the epidemic

entailed organizing meetings, breaks, commutes, and other activities while attempting to avoid peak times. But when it came to working from home, such worries were set aside, and workers were tricked into believing they had "infinite time." Our perception of having more time on our hands led us to believe that we should be working longer hours.

The expectation of always being online and ready for work eventually emerged. Using this to their advantage, clients began contacting during "non-working" hours as they had an unconscious understanding that the recipient of the message was accessible and at home. The breaking point for employee stress levels has finally been reached. Due to rising competition, job losses and cost reductions, overly ambitious corporate goals, and growing expectations to achieve more with less, employee burnout cases are expected to rise along with the demands of contemporary work. Employees now believe they are entering the burnout period in their 20s and 30s, which is supposed to be the best time for them to thrive at work. Competitive or "over-engaged" workers have developed a bad habit of putting in excessively long hours of work despite fatigue, stress, and the possible harm to their mental and physical well-being. They are forced to go above and above to fulfill the demands of their organization and the absurd deadlines they have been given.

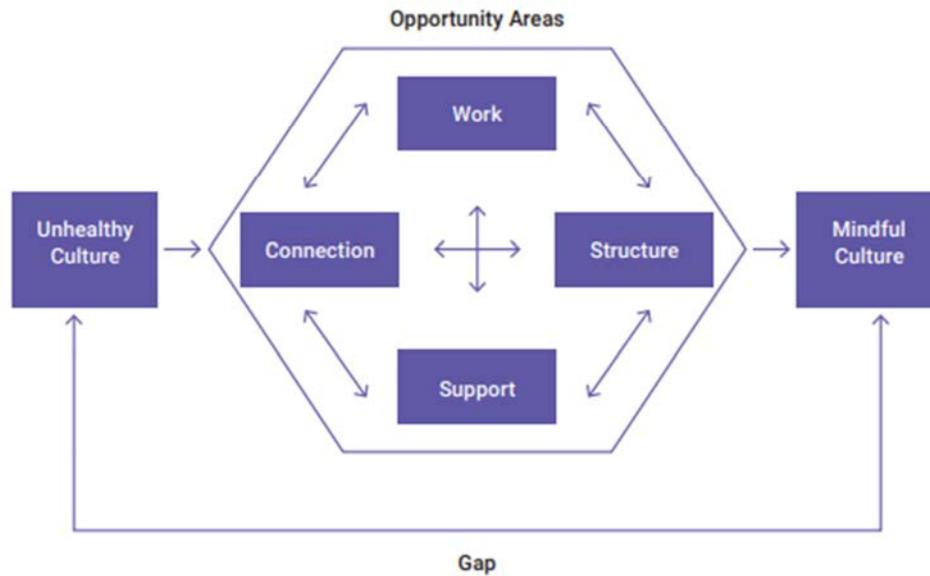
he Marketing & Marketing Company in India as a case study and dug further into their work culture, functioning, structure, and most importantly workforce to corroborate my secondary research. The globalized field of advertising and marketing offers extremely creative, diversified, flexible, and free-form work environments. Nonetheless, it is well recognized that the agencies and branches located in India have some of the most unhealthy, overworked, and draining cultures. This has led to poor physical and mental health, frequent job changes, and increased employee churn over time. Employee conditions have become worse as a result of the COVID-19 epidemic and the move to work-from-home policies. A large number of workers complained in 2020 that they were working too hard and often between calls. Even if they are seated next to one another, they do not have time for their families. Due to the heavy demands of their jobs, they eat while they work and put their personal lives on hold on the weekends. Over the years, a lot of creatives have quit and never turned back. For peace of mind, many creative workers choose to forgo their passion and accept a 9 to 5 job. Those who continue in the field have come to terms with the reality that work consumes their lives.

#### *3.4 Work From Home "Means never being able to 'Sign off':*

Employees are urged to take each month's Monday off, schedule a free consultation with an internal counselor, or record their hours on a time sheet that alerts HR to excessive work. A highly skilled Creative Director with around 15 years of advertising experience works for one of the top advertising agencies in India. He pointed out that although some organizations have sound HR policies, things work quite differently. Before COVID, the end of the workday was signified by leaving the office. But you can't even leave your home for the day. The hours we work are 24/7 now that we are working from home. To address problems connected to stress, HR planned a Town Hall meeting where employees may express their worries.

However, as the whole workforce would be on the call simultaneously, many felt uncomfortable discussing their serious issues. As a consequence, people decide to discuss easier subjects. One of the primary reasons for this overload is that clients are so picky and agencies can only take on so much work at a time. Finally, the customer will let you know about their other options if you don't live up to their expectations. Due to the false sense of urgency that the consumers created, the staff put up a great deal of effort during the lockdown. Most of these projects were never finished. Without even considering informing the workers,

the customers cancel. Workplace stress has always existed in this industry, but it is now a more serious problem. Figure 2 shows Represent overall procedure of Workplace Culture.



**Figure 2: Represent the overall procedure of Workplace Culture.**

### 3.5 Workplace Trends:

Several significant trends have evolved in the ever-changing contemporary workplace, changing the dynamics of where and how work is done. One notable trend is the rise of remote work, which is a result of both technology improvements and a growing understanding of the value of flexibility. Businesses are adopting hybrid work models more and more, which enable workers to combine in-person and remote work and boost performance and work-life balance. Concurrently, there has been a noticeable increase in the emphasis on employee well-being, as seen by the adoption of comprehensive wellness plans, mental health assistance programs, and flexible work arrangements by employers in response to the changing requirements of their workforce. With firms realizing how important it is to nurture varied and equitable work to spur creativity and provide a feeling of belonging, diversity, equality, and inclusion have emerged as key concepts. With automation, data analytics, and artificial intelligence transforming conventional roles and processes, the development of a digital overhaul has become crucial.

Organizations are being forced to reconsider their strategy for attracting and retaining talent as more professionals choose part-time or freelance employment as the freelance sector grows. Learning and development are now lifelong endeavors, with an emphasis on reskilling and upskilling to keep up with the ever-evolving demands of the workforce.

Amidst these developments, the significance of clear communication, genuine leadership, and a robust organizational culture are evident as essential components for effectively managing the intricacies of the modern workplace. Organizations looking to promote innovation, draw in top talent, and build flexible and resilient work environments must keep aware of these trends as the workplace keeps shifting.

### 3.5.1 Flexible Hours:

Employees are advised to make use of the free monthly Monday off, log their hours on a time sheet that alerts HR whether they are working too much, or consult with an internal counselor. But are these guidelines followed in the letter? An exceptionally skilled Creative Director with almost fifteen years of experience in advertising works for one of the top advertising agencies in India. While some agencies have strong HR policies, he pointed out that the real reality is quite different. Before COVID, the workday ended when one left the office. Still, you can't spend the day out of your home. We are now able to work around the clock since we do it from home. HR planned a Town Hall meeting so that employees may share their concerns about stress-related problems. But because everyone at work was going to sit on the call together, many felt uncomfortable discussing their serious issues. As a consequence, people decide to discuss more reasonable subjects.

One of the primary reasons for this overload is the fact that companies are only able to manage so much work and consumers are so demanding. Finally, if you don't live up to the client's demands, they will let you know what other options they have. Motivated by the false sense of urgency that the customers had created, the staff pushed very hard all through the lockdown. Most of this kind of work was never finished. The patrons abruptly withdraw without considering informing the staff. Although there has traditionally been stress at work in this industry, it is now a more serious problem.

### 3.5.2 Hybrid Work:

Due in great part to the pandemic, work has become more remote and hybrid. Globally, this epidemic has impacted millions of workers. There is far less demand for large office premises when fewer employees go to work each day. Not only can smaller workplaces save on rent, but they also produce less pollutants in the workplace. Employee happiness may be increased with a hybrid structure, and this has a beneficial impact on productivity.

### 3.5.3 Virtual Company Culture:

Businesses must figure out how to preserve their workplace culture while operating virtually. Creating a strategy with an emphasis on employee motivation and engagement is crucial. Establishing a robust workplace culture in a remote environment requires organizations to be creative. Businesses must demonstrate how they can care for their workers after they leave the company to reduce turnover. Employers are finding critical information about the performance of their whole business and the specific requirements of each employee via the use of employee analytics, or insights drawn from data connected to worker talent.

## 4. CONCLUSION

Incorporating mindfulness techniques into corporate culture seems to be a viable approach to improving organizational productivity and employee well-being. The examined research continuously emphasizes how mindfulness treatments improve employee satisfaction, stress reduction, and mental health in a variety of ways.

Based on available data, implementing mindfulness techniques in the workplace may help develop a workforce that is more adaptable and resilient, and better able to handle the challenges of today's complicated work environment.

It is evident from the observed advantages that mindfulness practices have an impact on organizational results in addition to improving human well-being. An attentive work environment is linked to better collaboration, more inventive thinking, and higher overall

performance within the company. The development of a mindfulness-focused work environment is not only in line with current trends that emphasize the holistic health of employees, but it also shows to be a calculated investment in the long-term growth of the company as a whole.

## REFERENCES:

- [1] R. T. Naveed, H. Alhaidan, H. Al Halbusi, and A. K. Al-Swidi, "Do organizations really evolve? The critical link between organizational culture and organizational innovation toward organizational effectiveness: Pivotal role of organizational resistance," *J. Innov. Knowl.*, 2022, doi: 10.1016/j.jik.2022.100178.
- [2] A. Dhoopar, P. Sihag, and B. Gupta, "Antecedents and measures of organizational effectiveness: A systematic review of literature," *Hum. Resour. Manag. Rev.*, 2023, doi: 10.1016/j.hrmmr.2022.100915.
- [3] A. Nazarian, P. Atkinson, P. Foroudi, and D. Edirisinghe, "Factors affecting organizational effectiveness in independent hotels – The case of Iran," *J. Hosp. Tour. Manag.*, 2021, doi: 10.1016/j.jhtm.2021.01.002.
- [4] S. Douglas, D. Merritt, R. Roberts, and D. Watkins, "Systemic leadership development: impact on organizational effectiveness," *Int. J. Organ. Anal.*, 2022, doi: 10.1108/IJOA-05-2020-2184.
- [5] N. Sharma and R. K. Singh, "A unified model of organizational effectiveness," *Journal of Organizational Effectiveness*. 2019. doi: 10.1108/JOEPP-10-2018-0084.
- [6] Y. T. Muzondiwa, I. Swarts, and C. M. Schultz, "The relationship between transformational leadership, perceived organisational effectiveness and organisational culture in a selected multinational corporation in Africa," *SA J. Hum. Resour. Manag.*, 2022, doi: 10.4102/sajhrm.v20i0.1888.
- [7] K. Cameron, C. Mora, T. Leutscher, and M. Calarco, "Effects of positive practices on organizational effectiveness," *J. Appl. Behav. Sci.*, 2011, doi: 10.1177/0021886310395514.
- [8] Reetu, A. Yadav, and K. Singh, "Study of Predictors of Organizational Effectiveness Among Private and Public Sector IT Companies," *Int. J. Hum. Cap. Inf. Technol. Prof.*, 2022, doi: 10.4018/IJHCITP.300315.
- [9] B. Oyewo, O. Moses, and O. Erin, "Balanced scorecard usage and organizational effectiveness: evidence from manufacturing sector," *Meas. Bus. Excell.*, 2022, doi: 10.1108/MBE-01-2021-0005.
- [10] L. Lucianetti, V. Battista, and X. Koufteros, "Comprehensive performance measurement systems design and organizational effectiveness," *Int. J. Oper. Prod. Manag.*, 2019, doi: 10.1108/IJOPM-07-2017-0412.
- [11] D. Dix, K. Norton, and G. M. Griffith, "Leaders on a Mindfulness-Based Program: Experience, Impact, and Effect on Leadership Role," *Hum. Arenas*, vol. 5, no. 4, pp. 783–801, Dec. 2022, doi: 10.1007/s42087-021-00183-5.
- [12] E. Hendriana, A. Christoper, H. O. A. Zain, and N. Pricilia, "The Role of Employer Branding in Work-life Balance and Employee Retention Relationship among Generation Z Workers: Mediation or Moderation?," *J. Manaj. Teor. dan Ter. J. Theory Appl. Manag.*, vol. 16, no. 1, pp. 124–143, Apr. 2023, doi: 10.20473/jmtt.v16i1.41703.

- [13] W. McIntyre Miller and A. S. Abdou, “Cultivating a Professional Culture of Peace and Inclusion: Conceptualizing Practical Applications of Peace Leadership in Schools,” *Front. Educ.*, vol. 3, Jul. 2018, doi: 10.3389/educ.2018.00056.
- [14] S. A. Olson, *Creating Wellbeing and Building Resilience in the Veterinary Profession*. Boca Raton: CRC Press, 2022. doi: 10.1201/9780367816766.
- [15] L. T. Tran, “Teaching and Engaging International Students,” *J. Int. Students*, vol. 10, no. 3, pp. xii–xvii, Aug. 2020, doi: 10.32674/jis.v10i3.2005.
- [16] A. Stankevičienė, V. Tamaševičius, D. Diskienė, Ž. Grakauskas, and L. Rudinskaja, “THE MEDIATING EFFECT OF WORK-LIFE BALANCE ON THE RELATIONSHIP BETWEEN WORK CULTURE AND EMPLOYEE WELL-BEING,” *J. Bus. Econ. Manag.*, vol. 22, no. 4, pp. 988–1007, Jun. 2021, doi: 10.3846/jbem.2021.14729.
- [17] A. Sarwar, M. K. Imran, Z.-U.-Z. Anjum, and U. Zahid, “How innovative climate leads to project success: the moderating role of gender and work culture,” *Innov. Manag. Rev.*, vol. 17, no. 4, pp. 413–430, Aug. 2020, doi: 10.1108/INMR-08-2019-0096.
- [18] H. E. Børve, “Men in kindergartens: work culture and gender,” *Early Child Dev. Care*, vol. 187, no. 7, pp. 1083–1094, Jul. 2017, doi: 10.1080/03004430.2016.1154853.
- [19] A. Maaranen and J. Tienari, “Social media and hyper-masculine work cultures,” *Gender, Work Organ.*, vol. 27, no. 6, pp. 1127–1144, Nov. 2020, doi: 10.1111/gwao.12450.
- [20] N. A. A. B. A. Rahim, K. Omar, A. U. Haque, H. Muhammad, J. Saputra, and F. Hulu, “Impacts of Work–Family Culture on Employee Job Performance in Achieving Sustainable Development Goals,” *Sustain.*, 2022, doi: 10.3390/su14127003.

## CHAPTER 7

### LINEA: A LINE OF COLLAPSIBLE BAGS

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#### **ABSTRACT:**

This paper explores the long-standing connection between people and travel, following the development of the bag an essential travel companion. Humans have traveled the earth in search of necessities like clothes, food, and shelter since the beginning of time. The ways that people travel have changed significantly throughout time, in line with people's growing desire to see the world. One thing has remained consistent throughout this turbulent journey: the traveler's luggage. The bag has been essential in enabling people to move about, from its simple beginnings as cloth potlis to its modern incarnations as large cases. All of these different carriers are referred to as baggage in this study, which also examines their historical relevance and the subtle ways in which they have evolved throughout time to satisfy the various demands of passengers.

#### **KEYWORDS:**

Baggage, Luggage, Travel, Travel Planning.

### 1. INTRODUCTION

Since the beginning of time, travel has been an integral part of the human experience and has shaped who we are. From the beginning of human history, people have traveled in search of necessities like clothes, food, and shelter. These journeys, which began the complex interaction between humans and movement and mobility, were not only exploratory goals but also survival necessities. Throughout history, travel has changed fundamentally, reflecting the advancement of human civilization [1], [2]. Our transportation options have developed beyond the simple means of walking or riding animals to include a complex system of cars, trains, aircraft, and ships. The natural human yearning to travel the world has grown into a modern-day quest for discovery, excitement, and cultural immersion.

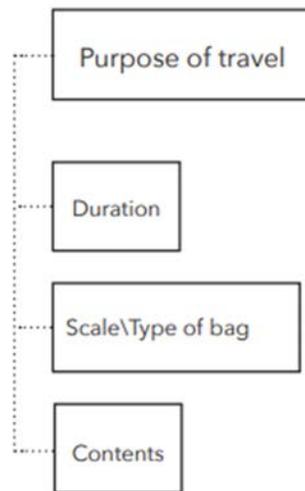
One constant that has endured throughout this growth is the traveler's bag. This essential tool has withstood the test of time, molding it to fit the various requirements and tastes of adventurers throughout history. In its most basic version, the bag functioned as a container carrying necessities for comfort, safety, and nourishment during long trips. The story of the bag's voyage is one of constant invention and adaptation, following the growth of travel itself. Bags have evolved from their simple beginnings as cotton potlis used to carry the barest necessities to complex, specialized cases made to meet the needs of contemporary travel. This evolution, characterized by improvements in usefulness, design, and materials, illustrates the mutually beneficial link that exists between human inventiveness and the instruments that we carry with us on our travels.

Whether traveling as a group or alone, these fellow travelers are more than just inanimate objects—they represent the spirit of discovery and the resiliency of the human spirit. The word "luggage" encompasses the many shapes and sizes that these journey companions come in, from roomy bags to little backpacks. Every variation serves a distinct function and meets the individual requirements and tastes of a wide range of tourists. More than only serving a practical function, baggage represents the spirit of the traveler's adventure [3], [4]. It includes

all of the material needs, including clothes, toiletries, and personal items, as well as the intangible goals, memories, and experiences accumulated throughout time. In this way, a traveler's baggage becomes a container for more than simply their personal effects it also holds the tales and experiences that make up their journey.

Specialized baggage grew more and more in demand when travel turned from a business venture to a recreational activity. The development of materials and design innovations made it possible to create baggage that was both fashionable and practical. Traveler's bags evolved from a practical need to a stylish adornment, a reflection of shifting social mores and the increasing value placed on individual expression. Today's wide range of baggage options reflects the variety of travel experiences and tastes. Suitcases that are sleek and stylish and made for city explorers coexist with backpacks that are made for the agile and daring individuals who travel across difficult terrain. Specialized baggage for families, outdoor enthusiasts, and business travelers demonstrates how adaptable these travel companions are in meeting the particular requirements of various lifestyles.

Furthermore, the idea of baggage has evolved beyond its tangible forms. Digital gadgets and cloud storage are examples of virtual baggage that travelers bring with them on their travels in the digital era when connection is crucial. The merging of the actual and virtual worlds highlights how dynamic modern travel is and how people's relationships with their possessions are changing. The entwined histories of travel and baggage tell a narrative of human adaptation, resilience, and the quest for the unknown [5], [6]. These travel companions have developed with us, mirroring the constantly shifting terrain of human discovery, from the crude cloth potlis of bygone days to the state-of-the-art, specialized baggage of today. Beyond its practical uses, baggage captures the spirit of our travels, serving as containers for both our tangibly needed items and our more ethereal experiences. As we keep traveling the world, our bags serve as a reminder of the never-ending spirit of discovery that every traveler. In Figure 1 shown the Factors relating to travel.



**Figure 1: Factors relating to travel.**

Luggage is a necessary travel companion that consists of a variety of bags, cases, and containers that are carefully crafted to hold a person's belongings while they are traveling. Luggage is the steward of one's possessions, whether it's for a last-minute weekend vacation or a lengthy international journey. It provides safe and well-organized storage for clothes, cosmetics, personal items, trip necessities, and, on the way back, treasured mementos. Beyond its practical

use, baggage enters the sphere of personal style and is often seen as a unique fashion statement. Luggage becomes a concrete symbol of a person's travel identity, and its importance goes well beyond its utilitarian use. It is more than just a practical object; it is a tool for self-expression, a reflection of the traveler's preferences, interests, and often, sense of style. Many people make a conscious effort to choose the appropriate baggage, which affects how they are seen and their whole trip experience.

In the modern world, there are many different kinds of baggage available, from small backpacks for quick trips to large check-in bags and trunks designed for extended travel. The kind of trip a person takes has a significant impact on the baggage they choose. Different baggage sizes, designs, and functionalities are required for different kinds of travel. The choice reflects lifestyle choices and personal preferences in addition to necessity. Recognizing the significant influence that the purpose of travel has on the amount of baggage needed, the person's trip begins with a thoughtful evaluation of the planned destination, length of stay, and particulars of the trip. Whether traveling for work, pleasure, a family holiday, or an academic excursion, every kind of travel has unique requirements and affects how much luggage is needed [7], [8]. As such, a journey must begin with a methodical procedure that includes determining the reason for the trip, outlining its length and any unique travel requirements, creating a packing list, organizing the luggage, and finally packing.

Travel planning is a customized, nuanced process that takes into account each person's specific reasons for wanting to travel, rather than a one-size-fits-all approach. Business travelers may place a premium on professionalism and functionality; lone travelers may choose small, adaptable baggage; families may choose roomy, well-organized luggage to accommodate a range of demands; and college students may seek a compromise between practicality and flair. Essentially, baggage becomes a crucial component of the trip story, expressing the priorities, choices, and way of life of the traveler. The process of planning a vacation is a methodical one, where each stage is shaped by the unique features of the destination of choice. In addition to being a useful travel companion, the traveler's baggage also acts as a physical representation of their individuality and a reflection of their distinct approach to the craft of travel as they set off on their adventure. As a result, baggage serves as more than just an accessory it is a traveling companion that helps the traveler navigate while preserving memories, experiences, and style.

## 2. DISCUSSION

Over time, baggage has evolved to represent not just the nature of travel itself but also the complex interplay of technology, design, and the ever-evolving requirements of the contemporary traveler. Examining the history, current state, and prospective future of baggage provides us with important perspectives on the dynamic character of this indispensable travel companion. In the annals of history, the first human travels may be traced back to the basic form of baggage. Travel and discovery were central to the nomadic lifestyle, as seen by the crude bags made from animal skins that they used to transport their possessions. Luggage evolved with civilizations. Rich travelers in the Renaissance wore elaborate trunks and chests that displayed their riches and workmanship. These early versions served as status symbols in addition to being bearers of belongings.

An important turning point in the development of baggage was the industrial revolution. With the development of the steam engine and the ensuing railway network, heavy, immovable trunks gave way to more lightweight, adaptable baggage. As the travel industry changed, leather luggage with handles became a fashionable and useful option for the growing middle class. In the modern day, baggage has evolved into a sophisticated fusion of design and use. Traditional leather has been replaced by lightweight materials like polycarbonate and ballistic

nylon, which provide durability without sacrificing appearance. The introduction of wheels and telescoping handles has completely changed how easy it is to move about, making bulky objects into strolling companions.

Innovation in the baggage sector has surged, leading to the rising prevalence of technologies like built-in charging outlets, GPS monitoring, and anti-theft systems. Today's visitors want a companion who is astute and tech-savvy as well as a vehicle to store their goods. The growing popularity of specialty baggage for a variety of travel uses, including tech-focused vacations, adventure travel, and business travel, highlights how adaptable the sector is to the subtleties of modern life. Looking back at the history of baggage provides valuable insights and motivation. Retro styles that bring to mind old-fashioned trunks or traditional leather bags are popular again, attracting those who want a little refinement when they travel. The lesson here is simple: although innovation is welcomed, designs that honor the artistry and workmanship of the past have an eternal appeal.

Furthermore, the robustness and artistry of vintage baggage impart to us the timeless value of excellence. Artifacts handed down through the centuries attest to the durability of well-made baggage, a quality worth maintaining in an age that is often defined by disposability. Looking into the future of baggage, one imagines a world in which intelligent technology is woven into our travel companions like second nature. Thoughtful yet intriguing possibilities include self-repairing devices, smart materials that adjust to changing environments, and even baggage that follows its owner about on its own [9], [10]. Future designs will probably be influenced by the pursuit of sustainability, which will lead to a move toward environmentally friendly materials and circular production techniques. Customization may also become a distinguishing feature of baggage in the future. Custom baggage that fits each traveler's tastes in terms of both appearance and practicality may eventually become the norm. Personalized, on-the-go baggage alterations made possible by 3D printing might enable passengers to customize their luggage to meet the unique requirements of each trip.

Future baggage functions may also include virtual reality (VR) and augmented reality (AR). Imagine traveling with luggage that uses augmented reality overlays to let you see what's inside or gives you a virtual tour of your location. Even if they are theoretical, these developments highlight how baggage can go beyond its traditional function and integrate fully into the travel experience. Ultimately, the development of luggage from its simple origins to the complex, technologically advanced baggage we see today is evidence of the dynamic interaction between human inventiveness and the dynamic nature of travel. Luggage continues to be a canvas onto which we project our goals for both practicality and style in our travels across time and space, as we take inspiration from the past, traverse the present, and envisage the future.

The dynamics of baggage have changed significantly in the modern era of air travel, reflecting the complexities of aviation rules and the changing requirements of passengers. There are two primary categories of baggage: check-in luggage and cabin/carry-on luggage. In the context of air travel, each category has a specific function, and both are subject to strict rules enforced by airlines to guarantee efficient and safe operations. The term "luggage" describes the baggage that travelers are permitted to bring inside the aircraft cabin. These bags provide accessibility and convenience by being made to hold necessary goods that passengers may require throughout their journey. Conversely, checked baggage refers to bigger bags that travelers must check in at the counter of the airline before boarding. During the trip, this baggage is kept in the aircraft's cargo hold.

The International Air Transport Association (IATA), a widely acknowledged organization with 250 member airlines, is essential to the standardization of aviation laws, notably those about

baggage dimensions. Acknowledging the need for standardization, IATA has suggested the ideal dimensions for travel bags. The goal of this standardized scale is to reduce passenger stress by offering uniform recommendations for all airlines. The IATA recommends that carry-on luggage have the following dimensions: 22 inches in length, 14 inches in breadth, and 9 inches in depth. By guaranteeing that cabin baggage can fit under seats or into overhead compartments, these regulated dimensions help make effective use of available cabin space. Registering In contrast, the maximum dimensions for luggage are 27 inches in length, 21 inches in breadth, and 14 inches in depth [11], [12]. This size variation is a reflection of the various storage capacities and structural needs of bags used for various uses.

Another important consideration when it comes to baggage laws is weight. Check-in bags often have a greater weight capacity than carry-on bags, which are designed to be lighter for easier handling during the journey. The majority of airlines have a maximum weight limit of around 25 kg for checked baggage. If the passenger's weight exceeds this limit, they may be fined or have to take goods out of their suitcase to comply with airline regulations. For tourists, breaking these rules may have expensive repercussions. The weight and size restrictions are closely enforced by airlines, and any violations may result in penalties or the need for the traveler to convert to a compliant bag. As such, travelers must use extreme prudence while buying and packing baggage.

When choosing or packing baggage, there are a few important factors to take into account. One must carefully consider the weight of the bag itself as well as the kind and volume of goods to be transported. Passengers need to be aware of the particular guidelines provided by the airline they are using since these policies might differ across them. The possibility of penalties or inconveniences further highlights how crucial it is to follow these rules. To put it simply, the rules governing checked and carry-on baggage are essential to guaranteeing the effectiveness, safety, and general success of air travel. These are not capricious limitations, but rather necessary steps that support the smooth operation of airlines and the contentment of travelers. Travelers thus must keep themselves informed about these rules and use caution when making judgments concerning their baggage to improve their entire travel experience.

To meet the varied demands of contemporary travelers, the baggage business has seen a major change in materials, design, and production techniques. There are several materials available for both carry-on and check-in bags, each with its benefits. The materials vary from more flexible possibilities like canvas, nylon, polyester, leather, and even carpet to more robust and impact-resistant ones like polycarbonate, resin, ABS, aluminum, and carbon fiber. Due to the variety of materials, baggage may be divided into two main categories: soft luggage and hard luggage.

Hard baggage usually has an exterior made of materials like plastic and metal that are durable and protective. Polycarbonate is a common material for hard-shell bags because of its resilience to impact and low weight. Another popular hard luggage material is ABS (Acrylonitrile Butadiene Styrene), which is valued for its sturdiness and scratch resistance. Conversely, soft baggage offers a more flexible and adaptive design by using materials such as canvas, nylon, polyester, leather, and others. Whether to choose hard or soft baggage often comes down to personal taste, the needs of the trip, and how much protection is needed for the belongings.

The range of materials and styles available is reflected in the diversity of production techniques used to create baggage. Injection molding and vacuum forming are often employed for hard luggage, shaping materials like polycarbonate into structured and impact-resistant shells. Punching methods may be used to make complex patterns or motifs on hard luggage as well as

soft luggage. Sewing and adhering procedures are essential for soft baggage because they enable the integration of materials made of fabric into patterns that are both visually beautiful and useful.

To guarantee the luggage's functioning and quality, the assembly and inspection stage is essential. This is when everything comes together and the product is rigorously tested to ensure that it satisfies industry requirements. The baggage proceeds to the packing step, where it is ready for distribution, after passing inspection. In addition to keeping the baggage safe during transportation, packaging must display it to prospective buyers in an enticing way. There are so many choices available when it comes to travel bags from trunks to backpacks. Nonetheless, the ease of use of rolling, trolley, and suitcase luggage has led to their enormous popularity particularly when traveling by air. The demands and limitations of flying have greatly impacted the design of these bags, making them essential travel companions.

Travel bags have to meet certain requirements for air travel, which is why rectangular block designs that improve packing efficiency within the International Air Transport Association's established scale are common (IATA). By ensuring that baggage adheres to airline size requirements, this standardization helps to avoid delays during check-in and boarding. The addition of two or four wheels improves these bags' movement and makes it easier for passengers to move about airports and other travel hubs. Contemporary travel bags include three handles to provide convenient and adaptable grasping. These handles are placed in a way that makes it easier to draw, hoist, and move the baggage with ease. Travel bags are made more useful by the inclusion of front compartments, which provide quick access to necessities like boarding cards, passports, and electrical gadgets without opening the main compartment.

The tough and long-lasting exteriors of modern travel bags are among their most important characteristics. This robustness guarantees the luggage's lifetime in addition to shielding the contents from outside damage. Strong materials that add to the luggage's toughness, such as ABS and polycarbonate, enable it to withstand the demands of regular travel. The travel bag market has changed to accommodate the ever-changing demands of contemporary tourists, offering a wide range of materials, styles, and production techniques. The popularity of rolling bags, trolley bags, and suitcases emphasizes how practical and convenient these items are, especially while traveling by air. With their uniform sizes, wheels, handles, and sturdy exteriors, these bags have evolved into indispensable allies for those juggling the demands of modern travel. Luggage design and production innovation are expected to continue as the travel industry grows, giving passengers the confidence to start on their adventures with style, ease, and trust in their chosen travel companions.

When it comes to traveling, especially with airlines, one of the first things that travelers think about is how much luggage each carrier allows. The quantity of checked baggage and hand/carry-on luggage that a traveler is allowed to bring on board is determined by this allotment. The luggage allowance restrictions are not the same for every airline; rather, they vary depending on several variables. These variables include the class of the traveler, their elite status, the kind of ticket they bought, and the departure and arrival locations of the aircraft. The adaptability of these restrictions enables airlines to efficiently oversee the loading and unloading of luggage, guaranteeing the security and effectiveness of air travel.

Passengers are sometimes confused and frustrated due to the intricacy of luggage allowance laws. The International Air Transport Association (IATA) has established ideal luggage size recommendations to solve this problem. It is hoped that these uniform standards would lessen the difficulties caused by the various restrictions that various airlines have put in place, giving travelers a better idea of what proportions are appropriate for their cabin luggage. This uniform

method improves the general effectiveness of airline operations while also making flying easier for customers. Turning from the travel industry to urban life, a rising number of people and changing environmental habits are contributing to the difficulty of space, both horizontally and vertically. This problem is especially noticeable in Mumbai, a busy metropolis that finds it difficult to provide enough open spaces when compared to other significant cities in the nation. Vertical living has become popular as a result of the lack of available horizontal space, with people choosing to live in tall apartment buildings.

These dwellings' small size is a direct result of the geographical limitations seen in highly crowded metropolitan settings. To accommodate the growing population, architects and city planners have embraced the vertical orientation as horizontal space becomes a premium commodity. The difficulty with this vertical living paradigm is to include green areas inside these high-rise buildings in addition to providing enough residential space. As a consequence, vertical urban landscapes typically have short, artificial green areas intended to resemble natural areas. The way Mumbai and other such cities contrast tall skyscrapers with small-scale residential districts and open spaces captures the delicate balance between population expansion and environmental sustainability. More people may live in the same geographic area thanks to the practical answer provided by the vertical expansion to the spatial problems. But it also calls for reconsidering how open spaces which are essential to urban residents' well-being can be included in this vertical structure.

The idea of condensed green areas within these skyscrapers is a reflection of how metropolitan areas have adapted to the environmental restrictions brought on by increasing urbanization. Despite their small size, these areas are meant to provide inhabitants with a break from the concrete jungle and make living conditions more visually appealing and mentally healthy. To maintain the general livability and sustainability of the urban environment, it is difficult to strike a balance between vertical growth and the preservation of green spaces. The complexities surrounding baggage allowance regulations in aviation underscore the need for uniform protocols to mitigate passenger uncertainty. However, the rise of vertical living in crowded metropolitan areas Mumbai being a prime example showcases creative solutions to space limitations. The way cities are changing to make room for more people highlights the fine balance that has to be struck between environmental preservation and urban growth as skyscrapers rise. The difficulty is in coming up with urban planning techniques that support livable and sustainable urban settings in addition to meeting the urgent spatial demands.

### **3. CONCLUSION**

Essentially, the dynamics of travel, as embodied in the complex world of luggage, highlight the many roles that luggage plays in people's journeys. Beyond its practical use as a secure, well-organized place to store personal items when traveling, baggage takes on a palpable personal statement of the owner's style and individuality. Travel planning, which is closely related to the selection of luggage, is a customized and sophisticated procedure that recognizes that various trip kinds demand varied luggage needs. The development of luggage across time, from simple designs used by people leading nomadic lives to today's highly technologically sophisticated, adaptable travel companions, is a reflection of both human creativity and the ever-evolving nature of travel. Studying the past, present, and prospective futures of luggage not only sheds light on the dynamic nature of this indispensable travel companion, but also raises the possibility of future improvements like as customized designs, intelligent technology integration, and sustainable materials. In addition, the conversation touches on the severe guidelines that airlines impose, stressing how important it is for passengers to follow luggage size and weight limitations to ensure the efficient operation and safety of air travel. Moving on from travel, the conversation focuses on the problems with space in crowded cities, where

vertical living has become a practical option at the expense of a reduced amount of open space. The way that luggage laws and city living are contrasted highlights the fine line that must be drawn as people adjust to new difficulties that arise in the air and on the ground as they negotiate the intricacies of contemporary travel and city living.

## REFERENCES

- [1] P. He, J. G. Jin, F. Schulte, en M. Trépanier, “Optimizing first-mile ridesharing services to intercity transit hubs”, *Transp. Res. Part C Emerg. Technol.*, 2023, doi: 10.1016/j.trc.2023.104082.
- [2] J. Choi, “Material Selection Method Using Tangible and Intangible Material Properties: A Case Study of Travel Luggage”, *Met. Mater. Int.*, 2023, doi: 10.1007/s12540-022-01358-7.
- [3] H. K. Yeung en M. Marinov, “A Systems Design Study Introducing a Collection Point for Baggage Transfer Services at a Railway Station in the UK”, *Urban Rail Transit*, 2019, doi: 10.1007/s40864-019-0101-4.
- [4] R. Muammar Andini, M. Abdul Rohman, en H. Jundan Hendrawan, “Design of Tourism Mountain Travel Luggage Based on Augmented Reality Technology As a Media Optimization of Tourism Facilities”, *KnE Soc. Sci.*, 2020, doi: 10.18502/kss.v4i12.7609.
- [5] S. N. Alhussein, “Analysis of ground access modes choice King Khaled International Airport, Riyadh, Saudi Arabia”, *J. Transp. Geogr.*, 2011, doi: 10.1016/j.jtrangeo.2011.07.007.
- [6] G. GÜNAY, “MODE CHOICE BEHAVIOR FOR GROUND ACCESS TO AIRPORTS: A CASE OF ISTANBUL ATATÜRK INTERNATIONAL AIRPORT (IST) AND SABIHA GOKCEN INTERNATIONAL AIRPORT (SAW)”, *Mugla J. Sci. Technol.*, 2020, doi: 10.22531/muglajsci.688018.
- [7] P. P. Felkai, “How to Travel After the COVID-19 Pandemic?”, *Int. J. Travel Med. Glob. Heal.*, 2020, doi: 10.34172/ijtmgh.2021.01.
- [8] S. S. Choi en C. E. Son, “Testing method for on-site measurement of explosive materials contaminated on travel luggage bag and backpack using ion mobility spectrometry”, *Bull. Korean Chem. Soc.*, 2018, doi: 10.1002/bkcs.11338.
- [9] I. D. M. Bos, R. E. C. M. Van der Heijden, E. J. E. Molin, en H. J. P. Timmermans, “The choice of park and ride facilities: An analysis using a context-dependent hierarchical choice experiment”, *Environ. Plan. A*, 2004, doi: 10.1068/a36138.
- [10] E. J. E. Molin en H. J. P. Timmermans, “Context dependent stated choice experiments: The case of train egress mode choice”, *J. Choice Model.*, 2010, doi: 10.1016/S1755-5345(13)70013-7.
- [11] M. Schultz en J. Fuchte, “Evaluation of aircraft boarding scenarios considering reduced transmissions risks”, *Sustain.*, 2020, doi: 10.3390/su12135329.
- [12] R. Davidson, “Invention of Space: City, Travel and Literature by Enric Bou”, *Hispan. Rev.*, 2015, doi: 10.1353/hir.2015.0040.

## CHAPTER 8

### SAMSARA: A MULTIDISCIPLINARY EXPLORATION AND REDISCOVERY OF THE PROFOUND ESSENCE OF SANSKRIT

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#### ABSTRACT:

Embark on a journey of rediscovery to delve into the profound legacy of Sanskrit. Engage in learning, contemplation, and connection within the samsara of this soulful language. Let this mark the commencement of an exploration into the wonders of Sanskrit. This capstone project endeavors to rhythmically explore the classical Sanskrit language through the prism of interior design. Employing mixed research methods, the project will delve into the musical essence of Sanskrit, unraveling its contributions. The overarching objective is to craft an immersive and interactive encounter that not only imparts knowledge about the language's beauty and significance but also fosters a profound connection through the synergies of rhythm and design. Examining Sanskrit's potential as a wellspring of inspiration for contemporary design and its role in safeguarding cultural heritage will be central to this project. It will entail thorough research, expert interviews, sensory mapping, and the conceptualization of the ultimate manifestation. Samsara transcends being a mere assortment of artifacts and texts; instead, it represents an opportunity for a fresh perspective in rediscovering the language. The aim is to showcase Sanskrit's vibrant history, its relevance in the present, and its potential for the future. It aspires to be a space that beckons audiences to immerse themselves in the timeless essence of Sanskrit.

#### KEYWORDS:

Language, Legacy, Philosophical, Samsara, Sanskrit.

#### 1. INTRODUCTION

Sanskrit stands alone in its ability to convey the diverse layers of meaning within a word, a unique quality extolled by Swami Vivekananda. Like the ubiquitous air we breathe, language envelops us so thoroughly that we often overlook its profound impact. Our native languages shape our perspectives, influencing the way we perceive nature, formulate thoughts, and wield power. Language, far beyond being a tool of politics, serves as a fertile medium for preserving and transmitting vast reservoirs of knowledge. Often hailed as the "soul of India," Sanskrit has played a pivotal role in the country's spiritual and philosophical thought for centuries. Renowned for its refined grammar and extensive vocabulary, it proves to be a fitting vehicle for articulating complex philosophical concepts [1], [2]. Despite its historical significance, modern times have witnessed the neglect of Sanskrit, fueled by misconceptions, limited access to education, and historical-political factors. This project, though not crafted by a Sanskrit scholar, represents a heartfelt endeavor to explore and revive the language through design intervention and rhythmic exploration. While I haven't delved into Sanskrit systematically or extensively, its rhythmic nature has always captivated me, even without a deep understanding. This exploration has given birth to Samsara – a multidisciplinary museum that celebrates the beauty and importance of Sanskrit. Serving as an experiential space, Samsara aims to revive the allure of Sanskrit, making it accessible and relevant in contemporary times [3], [4].

More than a mere educational space, Samsara invites visitors to not only learn about Sanskrit but also to experience it through their senses and emotions. Through diverse exhibits, displays,

and installations, the museum unfolds the rich history and culture associated with Sanskrit, fostering a deeper appreciation for its enduring legacy. The interactive elements encourage users, whether seasoned scholars or curious enthusiasts, to engage with the language in a novel and exciting manner. Samsara promises a unique and transformative encounter that will leave visitors with a newfound admiration for the language of Sanskrit. Language, a marvel in itself, often carries ambiguity, and interpretation is inherent in all forms of communication. It's perplexing that languages like Sanskrit and Latin, which have naturally evolved and served as prolific mediums for transmitting vast knowledge from our ancestors, are labeled as dead [5], [6]. The declaration of their demise seems unjust when considering their role as fecund conduits of ancestral wisdom. Sanskrit, for instance, holds a wealth of non-religious literature, surpassing its association solely with religious texts. The reduction of Sanskrit to a religious language oversimplifies its rich and diverse contributions to various fields. The ongoing debate about whether certain truths exist beyond language aside, the intelligence embedded in Sanskrit positions it as one of the most sophisticated language systems globally.

The name "Sanskrit" itself, meaning "perfect" or "finished," goes beyond mere nomenclature. The language's value extends beyond logic and structure. It lies in its nuanced and contextual application, allowing it to reach pinnacles in spiritual poetry, mathematics, sciences, magic, aesthetics, dance, and more. Sanskrit unveils a trove of quality treasures, awaiting exploration and appreciation. Its multifaceted nature challenges the reduction of this linguistic marvel to a mere relic of religious communication [7], [8]. The essence of Sanskrit lies in a profound understanding that sound and words form the very foundation of creation. While many of us have learned the abcs and grammar without questioning their origin, Sanskrit not only poses this fundamental inquiry but also provides a natural and logical answer. It delves into the point of origination of alphabets, offering insights into the primal sounds and their placement. Alphabets, in theory, aim to represent basic sounds producible by the vocal cords. However, Sanskrit goes a step further by addressing how one becomes aware of these foundational sounds and what determines their arrangement. The language inherently considers the intricacies of human vocal anatomy, providing a holistic approach to understanding sound production. The nature of a sound, according to Sanskrit, is influenced by four primary factors:

1. Sthana: The position of the sound.
2. Prayatna: The effort required to produce the sound.
3. Kala: The duration of the sound.
4. Karana: The processes of amplification, reflection, and attenuation of the sound.

Sanskrit's awareness of these factors showcases its meticulous consideration of the complexities involved in the creation of sounds and words. This holistic approach not only sets Sanskrit apart but also highlights its profound connection to the fundamental elements of linguistic expression. Indeed, the arrangement of vowels and consonants in the Sanskrit alphabet reflects a remarkable logical structure. This systematic organization not only facilitates the learning of Sanskrit but also provides a foundation for understanding the vowel and consonant sounds in any language. In Sanskrit, the classification is rooted in a conceptual understanding: vowels are regarded as singing sounds, while consonants are characterized as sounds involving contact.

This distinction aligns with the inherent nature of vowels, which are often associated with more melodious and open sounds, akin to singing. On the other hand, consonants involve contact or closure, leading to a more structured and articulated sound [9], [10]. The thoughtful categorization of sounds in Sanskrit allows for a clear and methodical approach to linguistic

study, offering insights into the inherent qualities of each sound type. By recognizing the connection between the nature of sounds and their categorization, learners can navigate the Sanskrit alphabet and, by extension, gain a deeper understanding of the sounds present in various languages. This logical arrangement contributes to the accessibility and comprehensibility of Sanskrit, showcasing the language's systematic approach to phonetics and linguistics.

### 1.1. Basis of Sound:

The rationale behind this arrangement stems from an understanding of human vocal anatomy, enhancing memorization ease. Within each horizontal group of consonants, the pronunciation originates from a single position, and the distinctive sounds within that group result from internal variations. Uttering the initial line of consonants “ka, kha, ga, gha, nga” one can discern the rhythmic breath inherent in these alphabets [11], [12]. Much like us, the letters breathe, and this is not a happenstance but a consequence of Sanskrit's intrinsic comprehension of the scientific principles of sound, contemplated by our forebears. Figure 1, shows the visual representation of the Hindi alphabet word garland.

Vowels					
अ	a	आ	ā	इ	e
ई	ee	उ	u	ऊ	ú
ऋ	ri	ए	ae	ऐ	ai
ओ	o	औ	au		
अं	am	अः	ah		
Consonants					
<b>Gutturals</b>	क ka	ख kha	ग ga	घ gha	ङ ṅa
<b>Palatals</b>	च ca	छ cha	ज ja	झ jha	ञ cha
<b>Cerebrals</b>	ट ṭa	ठ ṭha	ड ḍa	ढ ḍha	ण ṭha
<b>Dentals</b>	त ta	थ tha	द da	ध dha	न na
<b>Labial</b>	प pa	फ pha	ब ba	भ bha	म pha
<b>Semivowels</b>	य ya	र ra	ल ya	व va	म ma
<b>Sibilants</b>	श śa	ष ṣha	स śa		
<b>Aspirate</b>	ह ha				

**Figure 1: Illustrate the pictorial representation of the Hind alphabet word mala.**

As an example, consider the guttural group consisting of ka, kha, ga, gha, and nga in the Sanskrit alphabet. The articulation of these sounds showcases distinct characteristics within the group. Starting with ka, it is a firm, unvoiced consonant with minimal breath release. Moving on to ga, it is softer and pronounced with a subtle breath release. The transition to gha introduces a harder sound with minimal breath release again. Lastly, nga, the final sound in this group, is soft and voiced, yet nasal. In the case of nga, the breath is released through both the nostrils and the mouth, adding a nuanced quality to its pronunciation within the guttural group.

### 1.2. Structure & Sense:

Sanskrit represents a remarkable synthesis of the three fundamental elements that govern language and communication: sound, word, and meaning seamlessly converge. This amalgamation highlights that languages, in essence, serve as endeavors to articulate and encapsulate the boundless spectrum of human experiences, embracing the full range of

compassion and potentiality. The inherent questions surrounding the meaning of sentences, the determination of length, and the attribution of significance to expressions prompt contemplation. Delving into a new language necessitates grappling with the amalgamation of words, and grammar emerges as the indispensable element that imparts meaning to a sentence, rendering language a fitting medium for communication [13], [13]. Grammar, by structuring and organizing words, plays a pivotal role in transforming a collection of words into coherent and meaningful expressions. It is through the rules and structures of grammar that the listener, speaker, and the intended meaning of a sentence find clarity and resonance.

### *1.3. Pros of Prose:*

Sanskrit literature is distinguished not by grandeur or poetic inspiration but rather by its inclination towards linguistic intricacies. These compositions are often intricate and not easily comprehensible due to the demand for a profound mastery of intricate grammatical structures. Consequently, they are termed *adhamakavyas*, denoting 'poems of a lower quality.' However, far from being devoid of value, these writings showcase the extraordinary potential inherent in the language, showcasing originality and creativity. Some instances even involve the composition of entire epics in this style. In this context, a few noteworthy creations in Sanskrit include *Varnacitras*, shlokas with specific constraints on consonant usage; *Gaticitras*, palindromes; *Citrabandhans*, shlokas with letters forming intriguing patterns, among countless other examples.

In the realm of Sanskrit's intersection with artificial intelligence (AI), recent revelations have uncovered fascinating connections that serve as a foundation for much work in linguistic and AI studies. In the rapidly evolving field of computers and AI, Sanskrit has been recognized as a potential computer language, as asserted by NASA scientist Rick Briggs in an article published in the AI magazine. Sanskrit stands out as a language that, for almost a millennium, thrived as a spoken language with a substantial body of literature. Beyond its literary contributions, the language boasts a longstanding tradition in philosophy and grammar that has endured with unwavering vitality into the present century. Grammar experts in Sanskrit devised a method for paraphrasing the language, aligning not only in essence but also in form with contemporary work in Artificial Intelligence. This revelation underscores the enduring relevance and adaptability of Sanskrit, transcending its historical context to contribute to cutting-edge developments in modern technology.

### *1.4. The Essence of Sanskrit:*

#### *1.4.1. Adapting to the Contemporary Medium:*

For any language, including Sanskrit, staying relevant in the face of evolving times is paramount. An essential aspect involves reimagining learning approaches, ensuring adaptability to the ever-changing world. It becomes imperative to establish Sanskrit's significance in both present and future contexts, making it accessible and applicable for individuals to integrate into their daily lives. Multiple visionaries in the field have successfully achieved this by exploring diverse knowledge systems and employing various outreach methods. These approaches include leveraging music, content creation, awareness campaigns, teaching methodologies, UI/UX design, game design, calligraphy, and art. Through these dynamic avenues, the richness of Sanskrit becomes tangible, and there seems to be no end to the treasures that await discovery in this exploration. Figure 2, shows the Avenues for Rediscovery.



**Figure 2: Illustrate the Mediums of Rediscovery.**

### 1.5.Sanskrit

The question itself underscores the importance of raising awareness on this subject, akin to asking why one should care about the Taj Mahal. In the contemporary world, learning Sanskrit offers a myriad of advantages. Research indicates that acquiring Sanskrit proficiency can enhance cognitive functions such as memory, focus, and critical thinking skills. Furthermore, the study of Sanskrit has been linked to delaying age-related cognitive decline and promoting overall brain health. Given the rising prevalence of mental health conditions globally, learning Sanskrit can contribute positively to mental and spiritual well-being through ancient Indian practices like yoga and meditation [13], [14].

The structured and intricate nature of Sanskrit as a language necessitates concentration and focus, fostering improvements in cognitive abilities and mental agility. Additionally, the rhythmic aspects of Sanskrit, coupled with the process of learning it, can be inherently meditative, offering a pathway to calmness and inner peace. As for the question of why rediscover Sanskrit, it is crucial to recognize that Sanskrit has been an integral part of Indian culture for millennia, nurturing a distinctive civilization. Despite being an ideal medium for expressing and transmitting knowledge, even in its place of origin, it is not always well-appreciated. Hence, the endeavor to rediscover Sanskrit becomes paramount. This capstone project aims to unveil the essence of Sanskrit, bridging it with the soul of the people. Through this journey, the intention is to rediscover the marvels of Sanskrit and catch glimpses of its profound significance.

Language, often compared to the air we breathe, envelops us with profound impact, shaping our perspectives and influencing the way we perceive the world. In this context, Sanskrit hailed as the "soul of India," has played a pivotal role in the country's spiritual and philosophical thought for centuries. Despite its historical significance, modern times have witnessed the neglect of Sanskrit, fueled by misconceptions, limited access to education, and historical-political factors. This project, although not crafted by a Sanskrit scholar, represents a heartfelt endeavor to explore and revive the language through design intervention and rhythmic exploration. The rhythmic nature of Sanskrit has always captivated me, even without a deep understanding. This exploration gave birth to Samsara, a multidisciplinary museum that

celebrates the beauty and importance of Sanskrit. Through a multidisciplinary approach encompassing design intervention, rhythmic exploration, and various mediums of expression, the project seeks to revive the allure of Sanskrit, making it accessible and relevant in contemporary times. From linguistic intricacies to cultural heritage, the project aims to create an experiential space, Samsara, that not only educates but immerses visitors in the beauty and importance of Sanskrit. The exploration unfolds the rich history and culture associated with Sanskrit, fostering a deeper appreciation for its enduring legacy

## 2. LITERATURE REVIEW

N. C. Panda, [15] Studied Sanskrit, recognized as the most ancient and perfected language globally, which stands as a true symbol of the rich Indian tradition and thought. Serving as a repository of unparalleled knowledge, it embodies the spirit of freedom in the pursuit of truth and a universal perspective. Revered as the language of the gods and the mother of Indian languages, Sanskrit goes beyond being a classical language; it encapsulates a significant portion of India's cultural heritage. With its extensive literature encompassing various sciences and wisdom, particularly seen in the Vedas, Sanskrit remains integral to Indian culture, offering insights into a healthy and harmonious societal life.

M. Talukdar, *et al.* [16] Studied Sanskrit, known as the mother of Indian languages, is revered globally for its sacred and spiritual significance. Named "Sanskrit" for its perfection and adherence to grammatical rules, it is also recognized as the language of the gods. Beyond its classical status, Sanskrit serves as a repository of knowledge, preserving India's rich culture and profound wisdom. Its ancient literature, especially the  $\square$ igveda, stands as the world's oldest literary record. The Vedas, associated with Sanskrit, cover a wide array of sciences, highlighting the language's diverse importance. This paper aims to emphasize Sanskrit's significance across various languages.

S. Ray and P. D. Schooler, [17] Studied Sanskrit, a classical language integral to India's cultural heritage, which has a history dating from the 4th millennium BCE to the 5th century CE. Despite its decline, Sanskrit remains vital in modern India, experiencing a resurgence in academic interest. Traditional education methods like gurukuls and ashrams persist, contributing to the preservation of Sanskrit. Introduced to the West during colonial times, Sanskrit continues to be studied in Indian universities, ensuring its enduring relevance in contemporary education.

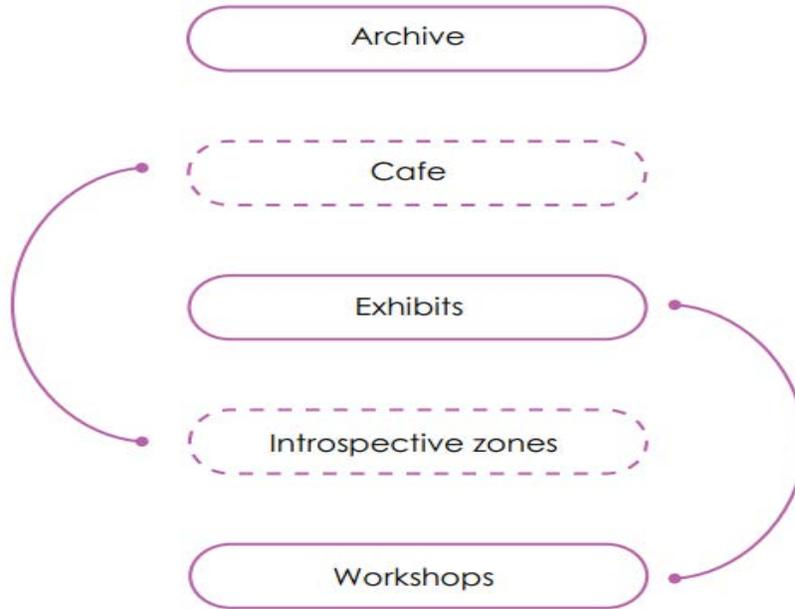
M. Venkata and G. Krishna, [18] Studied the Macaulay Mark of education is accused of intentionally undermining Indian traditions, culture, and the Sanskrit language, succeeding in severing the intellectual connection between generations. This has led to a collective forgetting of India's rich spiritual heritage.

Those advocating for Sanskrit as the official language are urged to reconsider, as the current state shows a significant disconnect from the glory and culture of epics and Vedic literature, resulting in the loss of the nation's literary heritage.

A. Glazier, [19] Studied Sanskrit, an ancient language, that has a millennia-old history and served as the language for Hindu scriptures like the Vedas. Classical Sanskrit literature, including epics like the Ramayana, reflects India's cultural richness. Originating in Sanskrit, disciplines like Ayurveda and Yoga hold ancient Indian wisdom. The language's linguistic precision intrigued global linguists, impacting linguistic studies. Beyond India, neighboring countries share historical ties with Sanskrit. In Ayurveda, Sanskrit played a crucial role in preserving traditional knowledge, making it a language of spiritual exploration and higher consciousness.

### 3. METHODOLOGY

The research methodology employed in this study incorporates a blend of primary and secondary research methods. Primary research encompasses activities such as reading and analysis, live case studies, and interviews with individuals, Sanskrit scholars, and experts to garner deeper insights into the subject matter. Secondary research involves a thorough analysis of existing literature, lectures, academic papers, and podcasts. Furthermore, the project may encompass a comparative analysis of case studies. This study aims to rekindle interest in Sanskrit and promote its study and research. The museum seeks to create a space that inspires a sense of wonder and curiosity about the language, its history, and its relevance today. By showcasing its beauty and complexity, the museum hopes to encourage the next generation to rediscover the charm and magic of Sanskrit. The space is to evoke a sense of wonder and curiosity, with elements that showcase the language's history, evolution, and impact on Indian culture and society. The design should be engaging for visitors of all ages and backgrounds. An amalgamation of interactive exhibits, multimedia installations, and immersive experiences will further enhance the audiences' understanding of the language. Additionally, it should facilitate research, scholarship, and event display with dedicated areas for studying, collaborating, and showcasing. Figure 3, shows the Subcategories and Programming.



**Figure 3: Illustrate the Subcategories and Programming.**

#### 3.1.Podcast Insights:

The Sanskrit Studies Podcast features insightful interviews with prominent scholars including Dr. Antonia Ruppel, McComas Taylor, Dagmar Wujastyk, John Brockington, Ananya Vajpeyi, and Amba Kulkarni. These experts share their perspectives on Sanskrit, exploring linguistic intricacies, cultural dimensions, and the historical significance of this classical language. The podcast offers a valuable resource for understanding Sanskrit's rich heritage and its profound impact on literature, philosophy, and Indian culture.

Throughout the podcast episodes, these distinguished individuals share their expertise, shedding light on the nuances of Sanskrit studies. Dr. Antonia Ruppel, a recognized authority in the field, offers her perspectives on Sanskrit, delving into linguistic intricacies and the

broader cultural implications of this classical language. Mccomas Taylor, with his scholarly insights, contributes to a nuanced exploration of Sanskrit's diverse dimensions. Dagmar Wujastyk, another luminary in Sanskrit scholarship, provides valuable insights into the historical and medical aspects of Sanskrit literature. Meanwhile, John Brockington, a seasoned scholar, shares his wealth of knowledge, contributing to a comprehensive understanding of Sanskrit's literary and philosophical heritage. Ananya Vajpeyi, with her interdisciplinary approach, brings a unique perspective to the podcast, discussing Sanskrit in the broader context of Indian culture and intellectual traditions. Amba Kulkarni, a distinguished scholar in her own right, adds depth to the discussions, sharing her expertise on Sanskrit studies. Listeners are treated to a wealth of information and diverse viewpoints, making the Sanskrit Studies Podcast a valuable resource for anyone interested in the language, literature, and cultural heritage of Sanskrit. The interviews provide a glimpse into the passion and dedication of these scholars, fostering a deeper appreciation for the profound legacy of Sanskrit in the realm of human knowledge and understanding. Table 1, shows the podcast insights based on participant opinions.

**Table 1: Illustrate the Podcast Insights as per the participant's opinion.**

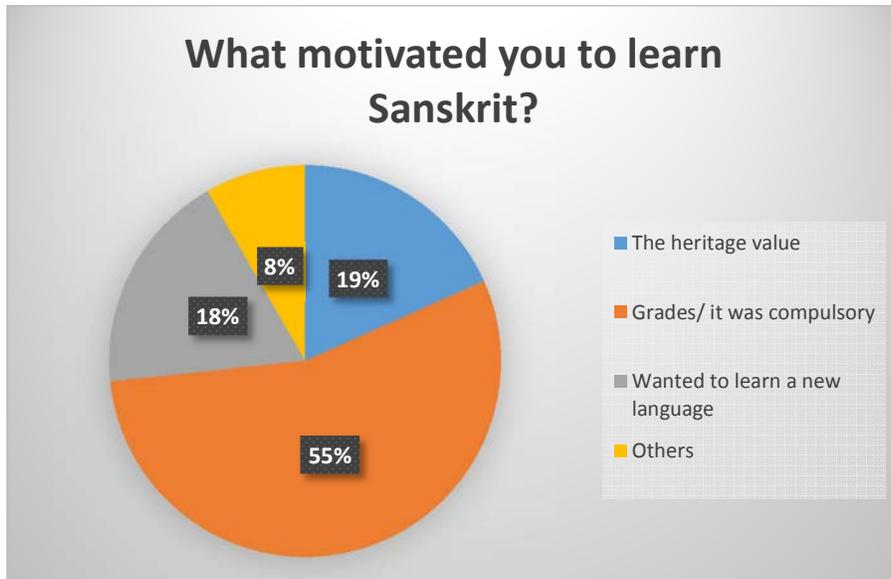
Episode number	Participant Name	Description
Episode 1	Dr Antonia Ruppel	Engage with more than 15 experts as they delve into topics such as yoga, ayurveda, mythology, and the global relevance of Sanskrit. Ruppel facilitates discussions on the vitality of Sanskrit, the history of thinkers, and various philosophical perspectives. This is essential listening for those seeking an introduction to the diverse world of Sanskrit.
Episode 2	Mccomas Taylor	Mccomas, a pioneer in online Sanskrit instruction and a dedicated supporter of open-access publishing, shares his journey of committing to learning Sanskrit under a full moon in a conversation with Antonia. He delves into his daily readings of the Mahābhārata, the successful strategies behind his online courses, and his recent translation of the Viṣṇu Purāṇa, offered freely. The discussion explores the convergence of ancient texts, modern technology, and the significance of ensuring knowledge is accessible to everyone.
Episode 3	Dagmar Wujastyk	Dominik initiated their Sanskrit journey by delving into translated texts, yet they soon recognized notable discrepancies between the two translations. In response, they delved deeper into the study of Sanskrit, securing grants from their country to aid in their studies. Their current focus lies in the direct examination of Sanskrit manuscripts, with a particular emphasis on the realms of grammar and medicine.

Episode 4	John Brockington	In addition to publishing his research, including works such as Righteous Rāma (further details available in the earlier bibliography) and The Sanskrit Epics, he has established a fruitful and enduring collaboration with his wife, Mary (who will be featured on the upcoming podcast). Together, they have achieved notable milestones, including the creation of a remarkable translation titled Rāma the Steadfast and the development of an extensive Rāmāyaṇa Research Archive.
Episode 5	Ananya Vajpeyi	In addition to publishing his research, including works like Righteous Rāma (refer to the earlier bibliography for more details) and The Sanskrit Epics, he enjoys a thriving and enduring collaboration with his wife, Mary (featured in the upcoming podcast). Their joint achievements encompass various endeavors, notably the creation of an impressive translation titled Rāma the Steadfast and the establishment of an extensive Rāmāyaṇa Research Archive.
Episode 6	Amba Kulkarni	Amba Kulkarni, affiliated with the Department of Sanskrit at the University of Hyderabad, is renowned for her integration of traditional Indian linguistic theory with AI theories of Knowledge Representation. In her discussion, she delves into her research involving computer-based comprehension of Sanskrit texts. For those keen on delving into computational linguistics, she recommends focusing on Kāvya/Kāvyaśāstra, Mīmāṃsā, Nyāya, or Vyākaraṇa. Kulkarni has also collaborated with Gérard Huet on the Sanskrit Heritage Site, emphasizing crucial factors for verbal cognition, including mutual compatibility, expectancy, and proximity.

#### 4. RESULT AND DISCUSSION

The motivations for learning Sanskrit varied among respondents, as outlined in the provided data, as shown in Figure 4. The largest portion, comprising 55% of the responses, indicated that the primary motivation for learning Sanskrit was its compulsory nature or academic requirement, likely driven by the necessity for grades. This suggests that a significant proportion of learners were motivated by external factors such as educational obligations. Another substantial group, accounting for 18.30%, expressed a motivation rooted in the heritage value of Sanskrit. This reflects an appreciation for the historical and cultural significance of the language, suggesting a desire to connect with one's cultural heritage. Similarly, an equal percentage of 18.30% cited the motivation to learn a new language as their reason for undertaking the study of Sanskrit. This points to a broader interest in linguistic diversity and a curiosity to explore languages beyond one's familiar linguistic background.

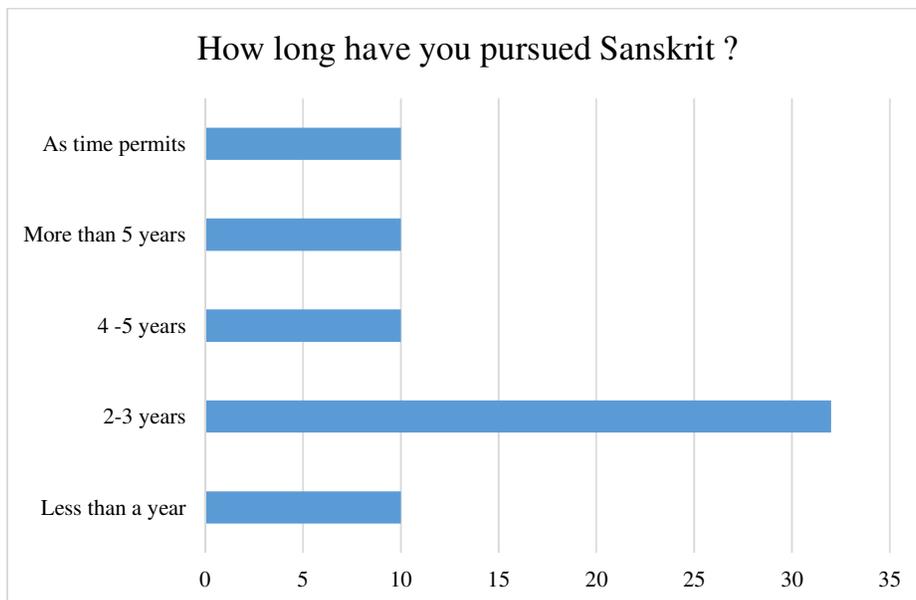
Finally, 8.30% of respondents fell into the "Others" category, indicating diverse and individualized motivations that may not align with the specified options. These motivations could range from personal interests, career aspirations, or other unique factors influencing their decision to learn Sanskrit. The motivations for learning Sanskrit appear to be driven by a combination of academic requirements, cultural heritage appreciation, a general interest in language acquisition, and a variety of individual factors.



**Figure 4: Illustrate the motivation to learn Sanskrit according to a participant.**

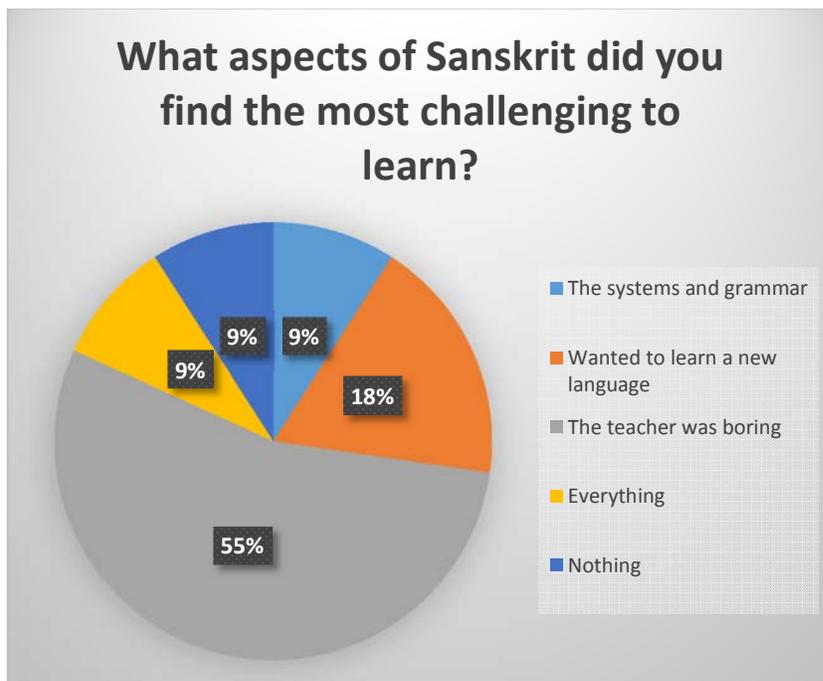
Figure 5, provides an overview of the duration of individuals' engagement with Sanskrit studies. The respondents are categorized based on the length of time they have pursued Sanskrit. The data reveals that 10 respondents have been studying Sanskrit for less than a year, while a significant portion, consisting of 32 respondents, has dedicated 2-3 years to their Sanskrit studies.

Another 10 respondents fall into the category of 4-5 years of pursuit, indicating a sustained interest in the language. Similarly, 10 individuals have been engaged in Sanskrit studies for more than 5 years, showcasing a long-term commitment to mastering the language. Additionally, 10 respondents mentioned studying Sanskrit as time permits, suggesting a flexible approach to their learning journey. This information provides insights into the varied durations of individuals' Sanskrit pursuits within the surveyed group.



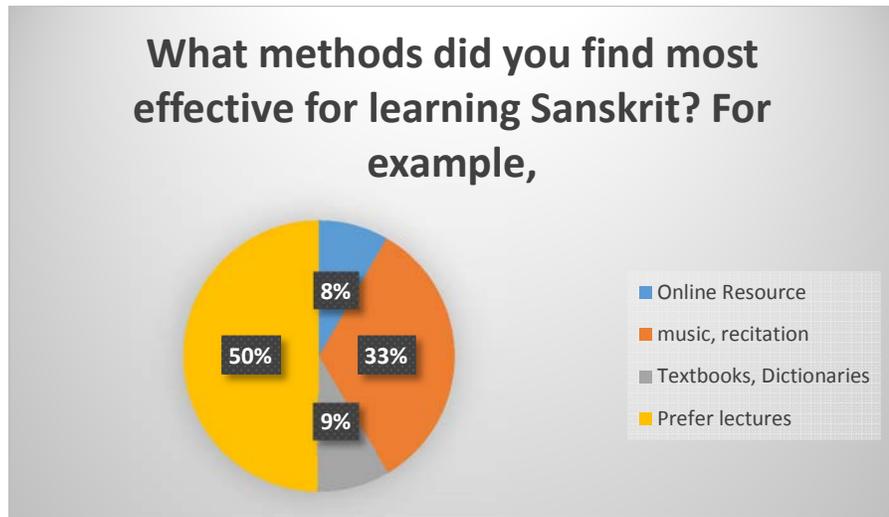
**Figure 5: Illustrate the duration of individuals' engagement with Sanskrit studies.**

This Figure 6, presents data on the factors influencing individuals' experiences in learning Sanskrit. The respondents were asked to identify the aspects they found most challenging in their Sanskrit learning journey, and the results were categorized into five distinct options. The largest portion, comprising 54.50% of the responses, indicates that a majority of learners found the teacher's presentation to be monotonous or uninteresting. Another significant group, accounting for 18.20%, expressed their motivation to learn a new language as the primary reason for undertaking Sanskrit studies. The intricacies of the language's systems and grammar proved to be challenging for 9.10% of the participants, while an equal percentage found every aspect of Sanskrit learning to be difficult. Surprisingly, there is also a cohort of 9.10% who claimed that they encountered no challenges at all in the process, suggesting a diverse range of experiences among Sanskrit learners. Overall, this table offers insights into the varied factors influencing individuals' perceptions of difficulty in learning Sanskrit.



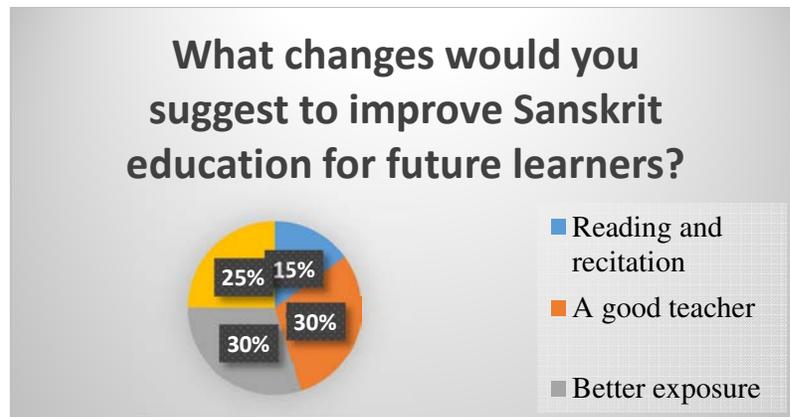
**Figure 6: illustrate the data on the factors influencing individuals' experiences in learning Sanskrit.**

This Figure 7, provides insights into the preferred methods for learning Sanskrit among respondents, with each option representing a distinct approach. The majority of participants, constituting 49.80% of the responses, found lectures to be the most effective method for acquiring Sanskrit proficiency. This suggests a preference for traditional classroom-style instruction. Another significant group, comprising 33.20%, highlighted the effectiveness of incorporating music and recitation into their learning process. This creative approach may indicate a preference for auditory and mnemonic techniques to enhance language retention. On the other hand, a smaller proportion, 8.30%, favored online resources, showcasing a reliance on digital platforms for language acquisition. Meanwhile, a similar percentage, 8.70%, expressed a preference for more traditional learning tools such as textbooks and dictionaries. The diverse range of preferred methods outlined in this table underscores the multifaceted nature of language learning and the importance of accommodating various learning styles and preferences.



**Figure 7: Illustrate the preferred methods for learning Sanskrit among respondents, with each option representing a distinct approach**

Figure 8 in this data outlines key areas for improving Sanskrit education, as indicated by participant opinions. A significant 30% emphasized the crucial role of effective teaching, highlighting the need for quality instruction. This underscores the potential improvement through investment in teacher training. Another 30% stressed the importance of better exposure, suggesting increased engagement with Sanskrit in practical, real-world contexts. This could be achieved through cultural and immersive experiences. Additionally, 25% emphasized the need for improved resources, including updated learning materials, textbooks, online resources, and multimedia content. Access to high-quality resources is deemed essential for an enriched learning experience. Lastly, 15% recommended a focus on reading and recitation, aligning with traditional language learning methods and emphasizing the importance of strengthening written and oral language skills. These suggested changes collectively aim to enhance teaching quality, increase language exposure, improve learning resources, and emphasize traditional language acquisition methods. The goal is to establish a more robust and effective Sanskrit education system for future learners.



**Figure 8: Illustrate the areas for improving Sanskrit education, as indicated by participant opinions.**

## 5. CONCLUSION

The essence of Sanskrit, intricately connected to the foundation of creation through sound and words, unfolds in the pages of this exploration. From the logical arrangement of vowels and consonants to the understanding of human vocal anatomy, Sanskrit stands as a language that goes beyond mere linguistic communication. The study illuminates Sanskrit's potential in the contemporary medium, emphasizing its adaptability and relevance. The multifaceted nature of Sanskrit, from literature to artificial intelligence, showcases its enduring legacy. As we conclude this exploration and rediscovery, Samsara emerges not just as an educational space but as a transformative encounter, leaving visitors with a newfound admiration for the language of Sanskrit.

The study underscores the need to rediscover this linguistic marvel and connect it with the soul of the people, ensuring that the wonders of Sanskrit are not lost but cherished for generations to come.

### REFERENCES:

- [1] S. Bhoyar, S. Chandankar, S. Tirpude, N. Chouragade, and A. Joshi, "Importance of sanskrit language in learning ayurveda," *International Journal of Current Research and Review*, vol. 12, no. 16, pp. 73–75, 2020. doi: 10.31782/IJCRR.2020.121615.
- [2] S. Sutina, "Aktualisasi Nilai-Nilai Astha Brata Untuk Pengembangan Jiwa Kepemimpinan Generasi Z," *Soc. Humanit. Educ. Stud. Conf. Ser.*, vol. 5, no. 1, p. 273, 2022, doi: 10.20961/shes.v5i1.57808.
- [3] S. Rohman, S. Suhono, and N. L. Marliana, "Rudyard Kipling and Representation of Language Family in the World: A Study of the Philosophy of Language," *Anglophile J.*, vol. 3, no. 2, p. 60, 2023, doi: 10.51278/anglophile.v3i2.592.
- [4] H. Hnatovska, "LEXICAL REPRESENTATIVES OF THE CONCEPT OF 'BEING' IN THE MONIER-WILLIAMS ENGLISH-SANSKRIT DICTIONARY," *Bull. Taras Shevchenko Natl. Univ. Kyiv. Philos.*, no. 6, pp. 10–15, 2022, doi: 10.17721/2523-4064.2022/6-2/13.
- [5] D. P. Mondal, "Contribution of Rabindranath as a follower of Sanskrit education," *Sprinj. Arts, Humanit. Soc. Sci.*, pp. 09–14, 2022, doi: 10.55559/sjahss.v1i11.65.
- [6] O. Kahl, "On the transmission of Indian medical texts to the Arabs in the early Middle Ages," *Arabica*, vol. 66, no. 1–2, pp. 82–97, 2019, doi: 10.1163/15700585-12341508.
- [7] J. Jayalakshmi and V. Smrithi Rekha, "Philosophy of Gurukula education: Personal education and practical democracy," *J. Philos. Educ.*, vol. 56, no. 6, pp. 1014–1025, 2022, doi: 10.1111/1467-9752.12713.
- [8] J. L. Shaw, "Visvabandhu Tarkatīrtha's 'The Nyāya on True Cognition (pramā),'", *Rudn J. Philos.*, vol. 26, no. 2, pp. 259–284, 2022, doi: 10.22363/2313-2302-2022-26-2-259-284.
- [9] F. Ayurveda, M. Sciences, and U. Pradesh, "Rationality of Rasayana Therapy As Adaptogenic, Antioxidant and Anti-Inflammatory Agent," *Int. Res. J. Pharm.*, vol. 2, no. 12, pp. 259–260, 2011.
- [10] T. Sarkar, "Neoclassicism in Bangla Word Formation Processes," *Rupkatha J. Interdiscip. Stud. Humanit.*, vol. 15, no. 3, 2023, doi: 10.21659/rupkatha.v15n3.03.

- [11] K. B. Schofield, "Emotions in Indian music history: anxiety in late Mughal Hindustan," *South Asian Hist. Cult.*, vol. 12, no. 2–3, pp. 182–205, 2021, doi: 10.1080/19472498.2021.1878792.
- [12] T. H. Do and N. C. Pand, "The concept of reincarnation as depicted in indian tradition and culture," *XLinguae*, vol. 13, no. 3, pp. 279–289, 2020, doi: 10.18355/XL.2020.13.03.23.
- [13] A. Sharma and A. Upadhyay, "Neural hypercomputation: A decisional approach," in *Proceedings of the International Conference on Inventive Computation Technologies, ICICT 2016*, 2016. doi: 10.1109/INVENTIVE.2016.7823285.
- [14] J. Knutson, "Political pleasures in late classical India: Kalidasa's spirituality and king harṣadeva's imagination of polygamous urbanity," *Riv. Studi Orient.*, vol. 88, no. 1–4, pp. 163–177, 2015.
- [15] N. C. Panda, "Relevance of Sanskrit in the Modern Age- A Realistic Approach".
- [16] M. Talukdar, K. Devi, and B. Devi, "IMPORTANCE OF SANSKRIT LANGUAGE AND LITERATURE- A STUDY," vol. 12, no. 10, pp. 843–849, doi: 10.48047/ecb/2023.12.si10.0098.
- [17] S. Ray and P. D. Schooler, "THE STUDY OF SANSKRIT LANGUAGE AND LITERATURE IN MODERN INDIA," vol. 11, no. 2, pp. 793–797, 2023.
- [18] M. Venkata and G. Krishna, "The significance of Sanskrit Language in our Education System," vol. 8, no. 7, pp. 825–834, 2021.
- [19] A. Glazier, "A landmark in the history of Ayurveda," *Lancet*, vol. 356, no. 9235, p. 1119, 2000, doi: 10.1016/s0140-6736(05)74569-4.

## CHAPTER 9

### AN OVERVIEW OF INTERIOR DESIGNING

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#### **ABSTRACT:**

Interior design is a broad field of study that includes the strategic and imaginative organization of spaces to improve people's quality lives and create visually beautiful surroundings. The main problem identified by this paper is to examine the broad field that includes everything from furnishings selection and lighting layout to color coordination and space planning. The main objective of this paper is to develop an interior design to create environments that are aesthetically pleasing, pleasant, and useful by working together with customers to comprehend their needs, tastes, and lifestyles. The conclusion of this paper is to examine the essential components of interior design will be examined in this abstract, along with the function of technology, environmentally friendly methods, and the influence of culture on design trends. The future scope of this paper is to discuss how interior design is a changing profession and how important it is in influencing how people interact with their environments.

#### **KEYWORDS:**

Advancement, Aesthetic, Designing, Harmonious, Urbanization.

#### **1. INTRODUCTION**

To create harmonious and useful living environments, interior design is a comprehensive profession that takes all aesthetic and functional factors into account. Interior design is a dynamic discipline that constantly changes according to societal trends, technology breakthroughs, and cultural influences. Its core concept is to enhance the interior environment. Fundamentally, interior design is an artistic pursuit that entails carefully arranging components in a room to maximize both its usability and aesthetic appeal. It explores areas such as furniture selection, color theory, lighting design, and more, going beyond simple décor. The complex fusion of technical know-how and aesthetic sensibility sets interior designers apart as experts who mould the spaces we live in, whether they be institutional, commercial, or residential.

A diverse range of cultures and historical eras are interwoven throughout the beautiful fabric that is the past of interior design. The development of decorating reflects not just shifting aesthetic tastes but also shifting societal ideals and technology advancements, as seen in the lavish interior of ancient palaces and the minimalist design of modern times. For example, the Renaissance saw a resurgence of classical design principles and a renewed focus on symmetry and balance.

On the other hand, as a result of urbanization and advancements in technology, the Industrial Revolution prompted a move towards practical and utilitarian designs. The history of interior design is replete with significant trends including Art Nouveau, Bauhaus, and Art Deco, all of which have had a profound impact on the field.

Thanks to the abundance of design trends and the vast range of materials and technology available, interior design has grown more approachable and adaptable in modern times. Today's interior designers include aspects from different eras, cultures, and design philosophies, drawing inspiration from a wide range of sources. The idea of eclecticism has grown in popularity, allowing several styles to be combined to create individualized and distinctive

rooms. Furthermore, the profession now incorporates sustainable and eco-friendly design approaches as standard practice, a reflection of the public's rising knowledge of environmental issues and the demand for responsible design solutions.

The design of an interior is a painstaking process that starts with a thorough comprehension of the demands, interests, and lifestyle of the customer. To obtain relevant information, this first phase entails conducting surveys, interviews, and site assessments. After gaining a comprehensive comprehension of the client's specifications, the designer proceeds to the conception phase. Here, the designer's creativity shines through as they come up with concepts, create mood boards, and create a design that satisfies both the functional needs of the space and the client's vision. An essential component of interior design is spatial planning, which deals with how different components are arranged and arranged inside a certain space. To guarantee a smooth flow and functionality, this involves figuring out where the furniture, fixtures, or architectural elements should be placed. Adding to the overall atmosphere and providing illumination, the layout of lighting is another essential element. A room's atmosphere can be altered, focal points can be created, and architectural aspects can be enhanced with the thoughtful use of artificial and natural light.

Color has a significant impact on how space is perceived and how the occupants feel, making it an important component of interior design. Color schemes are carefully chosen by designers taking into account both the intended ambiance and the functional requirements of each place. Cool colors can be used to create a peaceful bedroom atmosphere, while warm colors can be used to make a living room feel warm and welcoming. The meticulous blending of hues, materials, and textures gives the design depth and eye-catching appeal. The choice of furniture for an interior design takes into account both aesthetic and functional factors. To ensure that the items selected serve the occupants' practical needs while also complementing the overall design, architects have to find a balance between comfort and style. A space's usefulness and flow can also be enhanced by the way furniture is arranged, with a focus on generating conversation spots, maximizing natural light, and streamlining traffic patterns.

The influence of interior design is not limited to homes; it also permeates commercial and institutional settings. Considerate interior design improves customer experience, productivity, and general well-being in corporate offices, retail stores, hospitals, and educational institutions. A unified and welcoming ambiance can be created in commercial settings by the thoughtful application of branding components, color psychology, and ergonomic furniture. In contrast, healthcare settings might place a higher priority on aspects like hygienic practices, accessibility, and soothing design to encourage recovery and relaxation. Furthermore, the development of smart home technology has given rise to new possibilities in interior design, like automated climate management, integrated audio-visual systems, and intelligent lighting that improve energy efficiency and ease.

As interior design develops, the designer's responsibilities grow beyond aesthetics to encompass ecology and social responsibility. Sustainable design techniques use eco-friendly materials, energy-efficient appliances, and waste reduction techniques to reduce the interior spaces' negative environmental effects. Designers are choosing materials that are long-lasting, recyclable, and responsibly sourced because they are becoming more aware of the product's lifetime. In addition, the advancement of accessibility and inclusion is becoming more and more popular, with a focus on creating environments that accommodate a range of needs and capacities.

The study focuses on decorating a constantly evolving and multidimensional field that shapes our living, working, and play spaces by fusing technological know-how with artistic

inventiveness. Interior design represents the changing tastes, values, and issues of society, from its historical origins to the modern focus on sustainability and technology. The future is likely to see an expansion of the position of interior designers, who will be responsible for addressing societal demands, incorporating innovations, and helping to create environments that are not only aesthetically pleasing but also inclusive, sustainable, and useful.

## 2. LITERATURE REVIEW

M. Sinha *et al.* [1] study examined the concept of Sustainable interior designing has gained recognition in recent times. The study focuses on the history, growth, and future of sustainable interior design. The main aim of the research was to review 102 select journal articles from various Sustainability, Interior designing, and combined fields from 2001 through to 2020, to provide an apprehension on the frequency, study methods, data collection, and analysis procedures of the reviewed articles; Alongside providing the readers with an insight on the functionality, aesthetic appeal, client satisfaction and benefits to both environment and the clients. The study also sheds light on the important concepts of Biomimicry, Biophilia, and Natural Luxury.

P. Kaleja *et.al* [2] study examined by creating hardware and software for virtual reality tools, ICT (information and communication technology) has shown a great deal of promise for the interior design industry. ICT technologies provide a realistic view of the concept in its original form (the study). Real-time visualization combined with hardware such as the Oculus Rift and HTC Vive allows for free mobility and exploration in virtual environments, as well as the ability to virtually design. We can create virtual environments that are much more lifelike by advancing ICT programs for virtual reality creation. Using the most recent ICT gear and software for virtual reality, the contribution proposed a novel method of interior design in virtual reality.

A. Siddiqui *et.al* [3] study examined the goal of this research project to construct and create a 3D interior design application that will give users a virtual experience where they may design the inside of a sample room and visualize a normal home. The four primary interior design modules that users can engage with are Furniture, Tiles, Paints, and Customisation (Mix and match). The desktop and VR versions are the two platforms on which consumers will be able to enjoy it. Unlike retailers where limited samples are presented, its main goal is to display design items in the entire context. This will assist clients in choosing superior products for the interior design and decoration of their houses.

P. Hebbar *et.al* [4] study examined that interior design is necessary since design permeates all aspects of our lives in the modern era. Every day, interior design becomes more and more popular. However, the main issue that consumers have when searching for interior design is that working with interior designers and scheduling design sessions with them can be costly and time-consuming. Therefore, this project suggests the building of a software platform that allows users to create their area using augmented reality, which is a significant addition to the Internet of Things with many uses. The primary activities involved in this project are problem identification, business requirement fulfillment, user identification, task delegation, scenario construction, task flow creation, and display of the primary displays of the primary task flow.

R. Wang *et.al* [5] study examined the 3D virtual reality knowledge as a rapidly evolving field of study. Virtual reality is a cutting-edge field that incorporates image processing, multisensor knowledge, and artificial intelligence. The main building block for simulating a virtual world scenario is the situation's development in a 3D virtual reality scheme focusing on the primary issues that traditional interior design fails to accomplish and produces an effect that is not optimal. An interior space simulation technique based on dimensional vision is presented in

this article. The set of three locations is first combined with the indoor scene's feature, and ultimately, a repeated combination of the indoor scene's main and sub-points yields the best possible combination of the primary and sub-points interior comprehensive design uses the information synthesis of color background and interior spatial perception. It has been demonstrated that the approach put forward in this study may significantly increase the impact and viability of interior space design using a virtual reality platform simulation experiment.

The abovementioned studies do not explain that the way that designers conceptualize and convey their ideas has been completely transformed by the incorporation of technology in interior design. With the use of computer-aided design (CAD) software, clients may see the suggested designs before they are implemented thanks to accurate and thorough floor plans, 3D representations, and virtual walkthroughs.

### 3. DISCUSSION

The fascinating and diverse field of interior design focuses on both the science and the art of improving interior environments to produce visually beautiful and useful settings. This broad field includes a wide range of factors, from furniture selection and design of lighting to color theory and spatial layout. Examining the subtleties of decorating reveals an ongoing relationship between historical influences, technological advancements, creativity, and societal norms. The evolution of interior design over time has seen a wide range of aesthetics and ideologies that have influenced how rooms are planned and decorated [6]. In Figure 1 shown the interior design interior era.



**Figure 1: Illustrates the interior design interior era [interior. In].**

Historic societies, like the Romans and Egyptians, had a taste for lavish interior design that mirrored their social strata. The Industrial Revolution forced a move towards utilitarian design to meet the changing needs of urbanized populations, while the Renaissance age signaled a return to classical principles, stressing symmetry and proportion. Art Nouveau, Bauhaus, and the Art Deco style are just a few of the movements that have left a lasting impression and added a distinct chapter to the history of interior design [7].

Interior design has become a more varied and inclusive profession in the modern world, influenced by a wide range of sources. Designers can create environments that resonate with

individual tastes and represent the distinct identities of the residents by blending multiple styles, eras, or cultural factors through the use of the eclectic method. Furthermore, the incorporation of technological advancements and environmental practices have become essential elements of contemporary interior design. The field has evolved beyond its historical confines to adopt a comprehensive strategy that takes into account not only aesthetics but also user experience, environmental effect, and technological innovation [8].

Understanding the needs, interests, and lifestyle of the customer is the first step in the intricate process of interior design. This first stage entails a thorough investigation of the client's preferences and the functional needs of the area. Designers obtain essential data that forms the basis of the creative process through surveys, interviews, and site inspections. After that comes the conceptualization phase, in which designers use their artistic abilities to provide ideas, mood boards, and an idea for design that is in line with the client's goal [9].

One of the most important aspects of interior design is spatial planning, which is the deliberate placement of components inside space to maximize flow and functionality. The careful consideration of furniture placement, architectural characteristics, and traffic patterns results in a harmonious and effective spatial design. This complex process is further complicated by lighting design, which examines how artificial and natural light interact to emphasize architectural details, improve ambiance, and provide a visually appealing setting. One of the most important tools in a designer's toolbox, color is crucial in determining the mood of a room. The intended atmosphere and purpose of each space are taken into consideration when choosing a color scheme [9].

While cool tones could predominate in areas meant for relaxation, warm tones might be used in communal spaces to give a sense of coziness. In addition to giving the design depth and visual appeal, the harmonious arrangement of colors, materials, and textures also contributes to a unified and captivating aesthetic. Beyond its practical use, furniture is an essential component of design that enhances a room's overall comfort and aesthetic appeal. A careful balance must be struck while choosing furniture to maximize comfort, practicality, and style. Each piece's scale, proportion, and apparent weight are taken into account by designers to make sure it works well with the overall idea. The furniture arrangement also affects the spatial dynamics by allocating specific spaces for different activities and making the best use of the available room [10].

Although a large portion of interior design is concentrated on residential areas, the field also encompasses commercial, organizational, and hospitality settings.

When it comes to commercial design, well-considered design techniques improve customer experience, brand identification, and functionality in workplaces, retail stores, and public areas. Strategic layout, ergonomic design, and branding aspects all help to create environments that encourage productivity and draw people in [11].

The particular problems that come with working in healthcare settings mean that aspects like cleanliness, accessibility, and a relaxing environment must be prioritized. Healthcare interior designers take into account aspects such as color psychology, lighting, & the choice of antibacterial materials to create spaces that support recovery and well-being. Incorporating components that facilitate cooperation, focus, and creative expression, interior design is another tool used by educational institutions to create surroundings that are favorable to learning.

The way interior designers conceptualize, communicate, and execute their ideas has changed dramatically as a result of the use of technology. With the help of computer-aided design (CAD)

software, which is now a common tool, layouts, 3D renderings, and simulated walkthroughs may be created with accuracy and detail. This technology breakthrough helps clients see and comprehend the suggested designs more clearly while also streamlining the design process [12].

Interior design has taken on a new significance with the emergence of smart home technology. Automated systems for entertainment, security, lighting, and climate control improve the practicality and efficiency of contemporary living areas. To create houses that are not just aesthetically beautiful but also cutting-edge technologically and accommodating to the demands of its residents, designers work in tandem with technology experts to effortlessly integrate these smart devices into the overall design [13]. In Figure 2 shown the art of interior design.



**Figure 2: Illustrates the art of interior design [telegra.ph].**

Sustainability has emerged as a major concern in interior design as we move into the twenty-first century, indicating a greater consciousness of environmental challenges. By adopting eco-friendly materials, energy-efficient technologies, and waste-reduction techniques, sustainable design approaches seek to reduce the ecological impact of interior spaces. To reduce their product's environmental impact, designers look for locally sourced materials, prioritize using recycled and recyclable components, and take the product's lifecycle into account [14].

Within the interior design industry, social responsibility is given more weight than environmental sustainability. The creation of inclusive and accessible settings that accommodate people with a range of needs and abilities is becoming more and more important to designers. In the field of design, universal design principles are becoming more and more well-known. These concepts emphasize creating settings that are usable by all people, regardless of their age, ability, or status. The trend towards inclusivity emphasizes how important interior design is in creating spaces that are both visually beautiful and sensitive to the variety of human experiences [15].

With interior design well-positioned to adapt to new trends, technological advancements, and societal changes, the field has a bright future ahead of it. The responsibilities of an interior designer will probably grow and involve more than just beauty and practicality. Architectural designers will be at the forefront of incorporating new developments into their designs as materials, construction methods, and technological advances continue to advance. This will result in the creation of spaces that are not only aesthetically pleasing but also sustainable, cutting-edge, and socially conscious [16].

In summary, the conversation around interior design is a complex tapestry weaved with strands of creativity, history, technology, and societal development. Interior design, with its historical foundations and modern focus on sustainability and diversity, is a live example of the fluid nature of human imagination and the ever-changing relationship people have with their living environments. We find that interior design is a discipline that extends beyond simple decoration as we work our way through its many layers. It's a holistic approach that influences how we see and engage with the spaces around us [17].

Interior design is a multidisciplinary field that combines aesthetics, utility, and creativity to create settings that improve occupants' quality of life and culture. With roots in times gone by, interior design has developed over the ages under the impact of social, cultural, and technological developments. The field of interior design is today considered to be an essential component of architecture in the twenty-first century, requiring a special combination of technical proficiency, creative sensibility, and in-depth knowledge of human psychology. Creating environments that are not just aesthetically pleasing but also meet the functional requirements and comfort levels of the people occupying them is the core objective of interior design. To create a pleasing balance between aesthetics and practicality, designers carefully take into account the design, spatial arrangements, color schemes, lighting, and furnishings. An extensive examination of the client's needs, preferences, and the intended use of the space is the first step in the process. To guarantee that everyone is aware of the project's objectives, the designer and client must work closely together and communicate frequently during this first stage [18].

The development of interior design throughout history has been seen, ranging from simple functional layouts to more intricate and stylized environments. Early examples of interior design were exhibited by Mesopotamian and Egyptian cultures, which prioritized practicality and symbolic components. With a resurgence of interest in classical structures dictating design aesthetics, the Renaissance era saw a shift towards more elaborate and decorative interiors. Interior design was impacted by the Industrial Revolution's introduction of new materials and industrial processes, which resulted in a fusion of contemporary innovation with traditional craftsmanship. Pioneers like Frank Lloyd Wright and Elsie de Wolfe were instrumental in forming the profession in the 20th century. De Wolfe is frequently recognized as the pioneer of the interior design industry, highlighting the significance of crafting spaces that mirror the individuality of their users. Wright, respectively, on the other hand, promoted the idea of organic architecture, which incorporates the outdoors into indoor areas. These trailblazers established the groundwork for a field that developed further in tandem with modernism, the concept of postmodernism, and the digital era [19].

A wide variety of styles and inspirations may be found in contemporary interior design, which reflects the 21st-century globalization of the design industry. Maximalist designs, which embrace vivid colors, patterns, and textures, stand in stark contrast to minimalism, which is defined by simple lines and an emphasis on simplicity. Growing environmental consciousness has made sustainability design methods more popular, which has increased the focus on eco-friendly materials and solutions that are energy-efficient [20].

Technology has also completely changed the design process, allowing designers to more effectively visualize and convey their ideas through the use of digital technologies like virtual reality, 3D modeling, and other tools. An interior designer's responsibilities go beyond aesthetics; they also include ergonomics, psychology, and utility. The psychological effects of colors, lighting, and layouts on occupants' moods and well-being must be taken into account by designers. To ensure that furniture & layouts promote comfort as well as effectiveness in everyday activities, ergonomics is essential. Additionally, crucial factors to take into account are inclusivity and accessibility, which guarantee that interior spaces can accommodate people with a range of requirements and abilities.

Successful interior design projects depend heavily on collaboration, which entails close coordination with contractors, architects, and other experts. The client's vision must be effectively communicated to produce concrete design concepts. In the ever-evolving world of interior design, the capacity to navigate and adjust to rapidly evolving trends and technologies is essential for maintaining relevance. A designer's professional development depends on their ability to learn new things constantly and their dedication to comprehending the newest materials, technology, and sustainable practices. Interior designers work in a variety of situations, including commercial buildings, residential interiors, hospitality settings, and healthcare facilities. Every environment offers different opportunities and difficulties, necessitating flexibility and a thorough comprehension of the particular requirements and uses of the place. Commercial space design, for instance, frequently takes customer experience, branding, and effective space utilization into account. The goal of residential interior design is to create individualized, cozy spaces that suit the tenants' tastes and way of life.

Interior design has a profound effect on social relationships, a sense of culture, and the general well-being of people and communities in addition to the interior spaces it designs. The design can arouse feelings, produce moments that will stick in your memory, and help you feel like you belong. As people's awareness of the relationship between human well-being and the built environment grows, interior designers play a more important role. To sum up, interior design is an ever-evolving, multidisciplinary subject that adapts to socioeconomic, technological, and cultural shifts. Interior design has evolved from its historical beginnings to become an industry that deals with the intricate relationship between function and form. Future developments in the discipline are anticipated to be fueled by technological breakthroughs, sustainable building methods, and a heightened understanding of the significant positive effects that well-designed environments can have on people as a whole. With its long history and continuous development, interior design is still a vital and significant part of the overall human experience.

#### **4. CONCLUSION**

To sum up, interior design is a continuous and developing field that addresses the comfort, usefulness, and aesthetic harmony of interior spaces in addition to ornamentation. Significant progress has been made in the field, especially with the incorporation of technology, which enables designers to more efficiently visualize and execute their concepts. Green design solutions are becoming increasingly important, and sustainable methods have become essential. Design trends are greatly influenced by culture since designers are inspired by a wide range of customs, materials, and aesthetics. Interior design is an interdisciplinary field that requires a holistic approach that takes into account the demands and well-being of the occupants in addition to aesthetic considerations. The field of interior design is still essential to producing environments that represent the goals and values of people and communities even as it continues to adjust to societal shifts. Interior designers must strike a balance between

innovation and classic design ideas to create homes that are not only aesthetically pleasing but also sustainable and practical. All things considered, interior design is a beautiful synthesis of science and art that improves our homes and workplaces.

#### REFERENCES:

- [1] M. Sinha and L. N. Fukey, "Sustainable Interior Designing in the 21st Century – a Review," *ECS Trans.*, 2022.
- [2] P. Kaleja and M. Kozlovská, "Virtual Reality as Innovative Approach to the Interior Designing," *Sel. Sci. Pap. - J. Civ. Eng.*, 2017.
- [3] A. Siddiqui, R. A. Siddiqui, S. Noor, and M. I. Saleem, "Smart Interior Designing Application Using VR," *Int. Conf. Recent Acad. Stud.*, 2023.
- [4] *et al.*, "Contrivance of Augmented Reality with Interior Designing," *Artif. Intell. Appl.*, 2023.
- [5] R. Wang and Y. Huang, "Application of 3D Software Virtual Reality in Interior Designing," *Mob. Inf. Syst.*, 2022.
- [6] "Virtual Reality in Interior Designing," *Turkish Online J. Qual. Inq.*, 2023.
- [7] K. O. Deger and A. H. Deger, "An Application of Mathematical Tessellation Method in Interior Designing," *Procedia - Soc. Behav. Sci.*, 2012.
- [8] W. T. Widiyanto and P. S. Hapsari, "The Interior Designing of Lawu Resort Hotel with Tirta Intanpari Batik Theme in Tawangmangu," *Pendhapa*, 2020.
- [9] T. A. Suroso Putro, Y. M. Putra, and A. Ramadhan, "Local Wisdom in Designing Interior Design, Review of Cultural Arts and Design Style," *Int. Humanit. Appl. Sci. J.*, 2019.
- [10] L. Crespi, "Designing Interiors," 2020.
- [11] D. Wijiyanto and S. Sumarno, "INTERIOR DESIGNING OF SEMARANG CONVENTION CENTER UNDER THE THEME OF ASEM ARANG-ARANG," *Pendhapa*, 2021.
- [12] S. Chawla, "Application of Vastu shastra principles in house construction by home dwellers," ~ 47 ~ *Int. J. Home Sci.*, 2020.
- [13] T. Thomas, R. Mathew, and K. G. Ambady, "Usefulness of Augmented Reality on Product Selection: An Experimental Study," *SCMS J. Indian Manag.*, 2022.
- [14] A. I. Safitri and J. Budiwiyanto, "The Interior Designing of Omah Batik in Bayat," *Pendhapa*, 2020.
- [15] A. M. Hegde, "Augmented Reality Implementation for Interior Designing and Virtual Furniture," *Int. J. Res. Appl. Sci. Eng. Technol.*, 2021.
- [16] P. Johri, G. Dhuriya, S. S. Yadav, and S. Chauhan, "Marker-less augmented reality system for home interior and designing," in *Proceedings - 2021 IEEE 10th International Conference on Communication Systems and Network Technologies, CSNT 2021*, 2021.
- [17] R. R. Nagashree, M. Rakshitha, S. Ruchira Bharadwaj, S. Sultana, and N. M. Nadig, "Markerless Augmented Reality Application for Interior Designing," in *2nd IEEE International Conference on Advanced Technologies in Intelligent Control, Environment, Computing and Communication Engineering, ICATIECE 2022*, 2022.

- [18] R. Mehta, "The Psychological Effects of Interiors and Spaces on Children of Play School.," *J. Archit. Eng. Technol.*, 2021.
- [19] A. N. Cahyono and I. Indarto, "DESIGNING THE INTERIOR OF CANDI LOKA NGAWI RESTAURANT BY APPLYING THE BATIK JAMUS TEA MOTIF THEME," *Pendhapa*, 2021.
- [20] S. Yashaswini and S. S. Shylaja, "Learning Preposition Priors to Generate Scene from Text Using Contact Constraints," *Eur. J. Electr. Eng. Comput. Sci.*, 2021.

## CHAPTER 10

### LIFE CYCLE DESIGN FOR EATING SPACES

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#### **ABSTRACT:**

Evolution is a constant inevitable process, we change every day and so do the spaces around us. The main problem identified by this paper is that today we live in a globalized world where we are surrounded by different stimuli that create various impulses within us. The main objective of this thesis project is to study the effect of change on the lifespan of eating spaces. This paper concludes that retail, restaurants, and other industries study those impulses and trends among their target audience to create profits, as a result, they often need to change along with these trends to stay relevant. The future scope of this paper is that often the complex nature of the business either does not allow for experimentation with food or comes with a high price all these factors have led to a high mortality rate among restaurants.

#### **KEYWORDS:**

Design, Eating Spaces, Globalized, Life Cycle, Transformation.

#### **1. INTRODUCTION**

Throughout history, evolutionary shifts have been continual. Every day, everything is always changing. Because prehistoric man had simpler needs, simpler structures like huts served their purpose. Our demands and, consequently, our design solutions are more complex nowadays. We are parts of extensive social, cultural, and economic networks and structures that shape every facet of our way of life. Consciously or unconsciously, our lives alter in minute ways almost every day. As a result, modern rooms are increasingly intricate, with layers of systemic, aesthetic, wellness, and functional features. Nowadays, spaces serve more purposes than just providing a haven for us. The great German philosopher Martin Heidegger claimed that the constructed settings satisfy our urge to locate and claim a space. It establishes a feeling of "place." The feeling of place is connected to permanence in human perception. The connection between "place and permanence," which we brought over from the West, is ingrained in our basic understanding of architecture as it exists today.

Because it offers us an impression of stability and prestige, the concept of permanency is significant. Although humans first created architecture as a means of refuge, we now use built environments for far more sophisticated and varied purposes. Today's indoor activities include government administration, healthcare, employment, and education. Over 90% of the day is spent indoors. The concept of permanency has guided the evolution of each of these areas. We now employ architecture for every purpose and activity because it denotes permanence, which in turn denotes security. As per the Cambridge Dictionary, the term "permanent" means having a long-term or eternal definition. But is a building everlasting? It doesn't. Since nothing is genuinely permanent, we are aware that no edifice lasts forever. Most structures end up being demolished because of neglect and degradation. The building is continually altered from the initial drawings to the last demolition, even before it is demolished. The term "building" refers to a completed structure, yet it also refers to an act of construction, hence the word itself is contradictory. Thus, although design aims for stability, the concept of a structure is ever-evolving. As we have already stated, the evolution of spaces from huts to multi-layered buildings can be attributed to changes in our lifestyles. "We shape the structures we inhabit and

subsequently our buildings shape us," as Winston Churchill so aptly stated. This quotation demonstrates the relationship between the user and the space, where purpose and user purpose reconstruct form, which in turn aids in the user's evolution. Today's media makes global trends accessible, with the intention of inspiring dreams. These trends combine the need to show off riches or economic domination, the might of technology, and the impact of fashion. Together, technology, money, and fashion are some of the main elements that drive a structure to become outdated since individuals frequently update or modify buildings to address problems, show off their wealth, or update the style of their homes.

This dynamic primarily affects commercial buildings because even a small shift in an industry can alter how a business operates, and consequently, how these businesses have offices. A further effect of living in a world brimming with influences and materialism is that our attention spans are getting shorter. We strive for innovation and make more regular changes to everything from places to products. This business tactic, often known as planned obsolescence, is the main cause of our problem with excessive waste. Bernard London's grandiose proposal to end the Great Depression was known as Planned Obsolescence. The objective was to schedule the obsolescence of mining and agriculture as well as goods like houses and shoes. To ensure a steady supply of new products and eradicate unemployment, the government would gather and destroy products once they reached their set obsolescence. These days, it's employed to take advantage of customers and guarantee purchases. This concept was centered on the product's life cycle. The short periods facilitate technological progress, but they also have the undesirable effect of encouraging wasteful consumer behavior.

Even though time and life are intertwined ideas, we sometimes overlook this when designing. We assume time and change as constants when we design. We are aware of the demands of our users and work to meet them. However, what takes place next? Any product or space's real life begins after the design phase, and the gap is the absence of planning beyond this point. Spaces are not envisioned with time or their ongoing functional changes. However, they automatically alter in tandem with their users and functions. Therefore, each new user must adapt to the constructed environment, which was created to meet the needs of earlier users. For example, ongoing changes to a building emphasize the importance of studying a structure using a time-consuming method. He claims that this method is crucial for architects and designers to avoid the error of coming up with a fifty-year solution for a problem that will be solved in a shorter amount of time.

The study explains that the architectural site has an immortal life; it exists both before and following the building. The building's foundation, or the structure, can endure for 300 years or more. Every 20 to 30 years, the building's facade, which is its second layer, is replaced. Building services are upgraded every seven to fifteen years, while a space's interior is changed every three to five years. This building's disintegration amply illustrates the fact that structures are temporary. Long lifespans and continuous functionality are only possible because buildings are cared for and maintained. Old structures' major drawback is their lack of services. With the speed at which technology is developing, services must be updated.

These renovations frequently cost more than building new construction. A major issue with permanent constructions is this ongoing requirement for nurturing and care. The greatest benefit of a permanent structure is also its greatest drawback. It develops alongside us when we provide it with care and attention. These areas provide a background for our lives.

## 2. LITERATURE REVIEW

V. Surya *et al.* [1] study examined the dining habits of the Minangkabau are reflected in the Padang eateries that serve rendang, a specialty dish. The impact of media and modernization

on eating culture has blurred the boundaries of Minangkabau eating culture's history and contributed to the homogeneity of traditional building design, particularly in terms of space and physical components. However, eating customs such as Makan Bajamba, which date back to the Minangkabau people, are still practiced today. Understanding the history of the Minangkabau environment and cuisine is crucial before studying design development. The primary issue is the way that Rumah Gadang's eating culture and physical space interact throughout the Minangkabau society's life cycle. Using a mixed method, an investigation at Rumah Gadang Istana Rajo Sharif Tuanku Disambah serves as a qualitative approach, while space syntax analysis is used to provide quantitative insights on the aspects of connectedness and integrity. Data on how Rumah Gadang assisted eating activities came from interviews, literature reviews, and firsthand observations. The outcome demonstrates how well Rumah Gadang supported the eating culture throughout its citizens' life cycles. Following a matrilineal kinship system, the space configuration during eating activities follows the roles of men and women. Ruang Lepas was split into smaller sections by the seat position norms for Minangkabau males according to the matrilineal kinship system, which was indicated by barriers, columns, and search clothing. Every area used for dining activities serves as a social gathering place where Minangkabau customs are reflected. Focusing on the maternal kinship system and social relationships that take place with the used space, a syntax analysis elucidates the relationship between space and eating behaviors. The space grammar analysis is helpful as a viewpoint to understand the interaction between space with culture for further research.

G. Halpern *et al.* [2] study examined it might be suggested that mother lifestyle characteristics, such as eating, smoking, and sporting habits, may decrease fertility potential given the declining human fertility rate over time. There is mounting evidence that a mother's lifestyle choices and prenatal conditions have major long-term health effects. Thus far, research has demonstrated that the development of the male and female germlines follows different routes for epigenetic processes and that each gamete has its specific epigenome. Since lifestyle factors are ultimately under an individual's control and can be modified to improve well-being, accounting for their impact may provide insightful data for couples receiving ICSI counseling. Thus, assessing the impact of maternal lifestyle variables on oocyte morphology was the aim of the current study. prospective research with a cohort. 561 female patients who underwent ICSI cycles from January 2015 to December 2018 at a private in vitro fertilization center associated with a university were included in the study. Before beginning the treatment, individuals were required to fill out a comprehensive, non-validated questionnaire about their history of smoking cigarettes, how often they exercised over the previous three months, and how much they consumed of refined sugar, energy drinks, booze, milk, and dairy products, and white and red meat. Before sperm injection, oocyte morphology was assessed, and intra- and extra-cytoplasmic dimorphisms were noted. Multiple multivariate regression models were used to assess the effects of maternal lifestyle characteristics on oocyte morphology. These analyses were adjusted for maternal age and weight, FSH dosage, and the quantity of recovered oocytes. The incidence of oocyte-shaped dimorphisms and zona pellucida dimorphisms was positively impacted by cigarette smoking. The occurrence of perivitelline space granulation and centrally positioned granular cytoplasm was strongly correlated with refined sugar consumption. There was an inverse relationship between the occurrence of fragmented PB and the consumption of dairy products and milk and an inverse relationship between the prevalence of membrane resistance and the intake of fish. Other maternal lifestyle factors that were evaluated had no discernible effects on oocyte dimorphisms. It appears that eating refined sugar and smoking cigarettes lowers the quality of oocytes. To prevent poorer in vitro reproduction results, it would be prudent to counsel female partners undergoing fertility treatments to refrain from smoking and consuming sweets.

H. Huzain *et al.* [3] study examined the variations in the frequency of suicide attempts between phases I and II of bipolar disorder individuals with bipolar disorder (BD) are more likely to attempt suicide than individuals with any other Axis I condition, with a lifetime probability of a non-fatal attempted suicide that ranges from 25% to 56%. Studies linking suicidal behavior to the main pathognomonic aspect of the disorder its repeated and pleomorphic course—are scarce, even though data on indicators of risk for suicide behavior is growing. Depression symptoms predominate during the chronic long-term course of bipolar disorder (BD). Suicidal behavior was linked to depressive elements of the illness in two recent investigations. Marangell *et al.* discovered that the last year's proportion of days depressed and history of suicide attempts were related to the participants' entrance into the study. The collection of the authors' journals Munksgaard, Blackwell Context: It is uncertain how frequently suicide attempts occur during different stages of bipolar illness (BD) or how significant static vs time-varying risk factors are in determining the overall risk of suicide attempts.

A. Mestre *et al.* [4] study examined the sustainable economy is currently a hot topic in both political and academic settings, but more work has to be done on developing useful strategies in related fields like design. The four looping strategies presented in this article I design to slow the loops, II design to close the loops, III design of bio-inspired loops, and IV design for bio-based loops form the basis of the theoretical structure for circular product design. Product design cases that demonstrate each of the suggestions are examined, along with recent research on topics such as life cycle design methods, the circular economy's conceptual model, and the circular economy package from the European Commission. Within the framework of the United Nations' sustainable development goals, the article makes the case that various "circular" methods focused on the life cycle stages of design might offer useful guiding approaches during the creation process and thereby encourage sustainable design approaches to the circular economy...

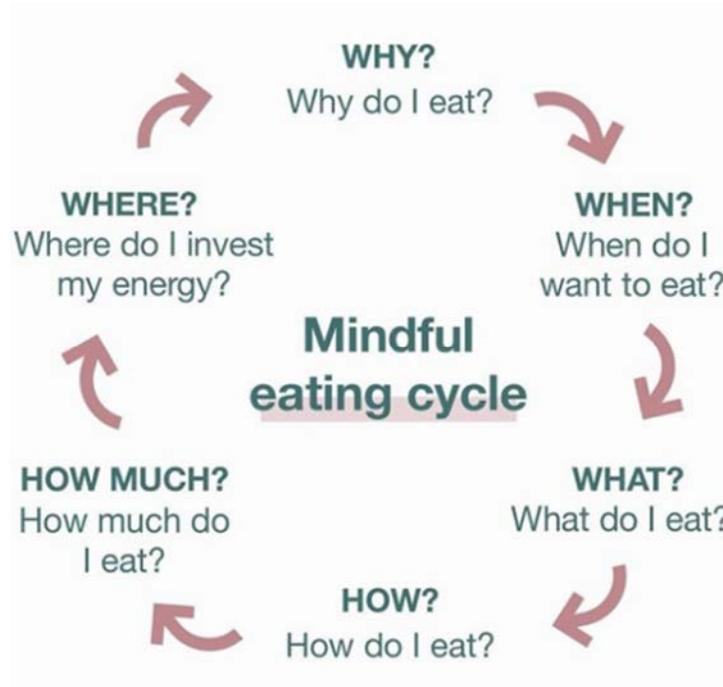
L. Jaillon *et al.* [5] study examined how prefabrication is being utilized in structures more and more. It is acknowledged as a way to lessen waste that develops during the planning and building stages. On the other hand, life cycle design concerns for prefabricated buildings situated in high-density building contexts are not given much attention. This study reviews the application of Industrialised, Flexible, and Removable building systems design for deconstruction as well as the benefits and challenges when utilized in precast concrete construction. In addition to two instances of recently finished institutional buildings that made use of prefabrication, the study includes the findings of an extensive literature analysis. The analysis of the literature demonstrates that the building industry has not yet adopted design for deconstruction as a standard practice. The case studies illustrated several constraints, like the small site size and the characteristics of a crowded urban setting. Encouraging a closed-loop materials cycle is essential for promoting sustainability and reducing the use of natural resources and CO2 emissions.

The above studies do not explain that the main reason for the continued development of space is the constantly changing requirements of humans. For instance, a family grows and moves into a larger home that can accommodate their needs. Throughout history, buildings have changed from cottages to skyscrapers to meet our modern way of living.

### 3.DISCUSSION

Ephemeral or transitory architecture is one example of how space has been modified to serve a specific purpose for brief periods. Temporary buildings of all shapes and sizes have been erected throughout the world, but particularly in India. At the Kumbh Mela, we witness the temporary construction of an entire city as well as temporary structures for one-day weddings.

Festivals, exhibitions, and pavilions are typical instances of transient environments. According to Robert Kronenburg's explanation in *Ephemeral/Portable Architecture*, ephemeral or transient environments adhere to a cycle. We anticipate that the structure will be demolished while it is being constructed, and when it is, there is optimism that it will be rebuilt [6]. Figure 1 illustrates the mindful eating cycle.



**Figure 1: Illustrates the mindful eating cycle [planetcenterednutrition.us].**

These areas can be used continuously at permanent locations, like a stage set. Through temporal manipulation and the fleeting nature of the content itself, they establish controlled associations within the architecture. Temporary spaces are often environmentally friendly and found in a variety of industries, including music, cinema, fashion, and so forth. They eliminate long-term hazards while enabling the user to engage in an active conversation with the neighborhood. Architects may produce dynamic, responsive designs with the use of technology. In a world where change and uncertainty occur simultaneously, the idea of permanence and stability is crucial to us, and technology allows us to achieve a balance [7].

The time of a space ought not to depend on the type of use, if rent is paid, whether a use is official or not, or even the size, longevity, or power for an interim use, but rather on the user's, developer's, or planners' intention that the use ought to be temporary, claim Bishop as well as Williams, writers of the text *The Temporary City*. People have been creating temporary spaces all over the world as part of the unofficial sector. Street vendors, local markets, and focused retail exhibits see significant demand and provide temporary places to provide it. They operate similarly to a live thing that comes and goes while still affecting the city [8].

India's financial center in Mumbai. Like the majority of big cities worldwide, it changed as a result of globalization. It was the center of the textile industry during the British era, but the same textile factories have since changed to fit India's emerging and more sophisticated industries. India's food and beverage sector is one such industry. The food service industry in India is 20 times larger than the movie industry, 4.7 times larger than hotels, and 1.5 times larger than the pharmaceutical industry. It is the country's largest service sector, surpassing only

retail and insurance. This increase is the result of several structural changes in Indian society, including growing consumerism, socializing, urbanization, disposable incomes, and nuclear families [9].

Eating out has developed into a communal pastime. Another factor could be that, with the bulk of its population being under 30, India has one of the biggest markets for consumers in terms of demographics. This particular demographic has been greatly influenced by technology and digital trends; they are time-pressed to prepare meals and prefer convenience. Consequently, going out to eat has evolved beyond simply marking special occasions. In major cities, almost 80% of customers place food orders at least twice per month, and 34% of all customers prefer to eat on the go during business hours. Two-thirds of all restaurants are in the unorganized sector, sometimes known as food retail. Even though it holds only 35% of the market share overall, the organized food service industry generates Rs 18,000 crore in revenue. Rapid Response Seventy-four percent of the chain market is made up of restaurant and casual dining establishments; the remaining twelve percent is made up of cafes and Pub Bars Club & Salons (PBCL). As the food and beverage industry develops, it has created sufficient space for domestic chains to flourish. Due to the F&B industry's expansion, more area is being set aside for dining establishments and food retail. Even with all of these encouraging developments, restaurants are closing. In India, there is a high restaurant mortality rate [10].

The unfounded rumor holds that one restaurant out of 10 will close. In a 2017 interview, the executive director of the NRAI, Riyaz Amlani, said that 15 of the 20 restaurants that had opened in 2010 had closed by 2017. Several explanations for restaurant closures include:

1. They are unable to duplicate their success and perform consistently.
2. It becomes difficult to manage expectations for maintenance and services.
3. To keep clients, they also continuously reinvent themselves.
4. The environment is difficult and the regulatory framework is intricate.
5. Just the interiors can have capital expenses of up to Rs. 7,000 per square foot. An entrepreneur who can't reasonably anticipate making a profit even before two years must also include operating expenses including staff salaries, utility payments, rent, and cooking costs.
6. Several current trends, such as body positivity, environmental awareness, ingredient knowledge, and the emergence of novel and exotic cuisines, are causing changes in this sector regularly [11].

Without an awareness of Mumbai's cultural and social milieu, one cannot fully comprehend the food sector. Mumbai is a mercantile hub made up of individuals from all over the world; it is a city of migrants. Mumbai's culture is hence a mash-up of several cultures that have coexisted in the city. A significant and essential component of this culture is the cuisine. The blending of cultures has also resulted in the blending of cuisine to create the distinctive meals that are widely available on Mumbai's streets today. Foods like bhelpuri, vada pav, and other such delicacies became popular in Mumbai as a result of the importation of Gujarati, English, and South Indian cuisine, as well as Iranian cafes. Use the vada pav as an illustration. The Portuguese invented the pav, Maharashtra invented the vada, and the British invented the potatoes used in vadas [12].

Unfortunately, there isn't enough depiction of Maharashtrian cultural cuisine in Mumbai's unique food culture. The Khanavals, which were built for the mill workers, were where the food was provided. These Khanavals lost customers once Mumbai changed into a post-globalized economy, and they eventually shuttered. In January 2020, the BKC in Mumbai hosted the Mahalaxmi food festival, which capitalized on this by asking individuals from the

surrounding regions of Maharashtra to prepare and sell their customary dishes for 12 days. These culinary events and food festivals frequently take place in BKC along with other public areas. Dining and retail kiosks are utilized by malls as well. Globally, food kiosks are growing in popularity. Food courts and kiosks inside the organized sector are expected to increase at an exponential rate in India. Benefits including reduced rental costs, increased ROI, brand penetration, and fresh site opportunities are to blame for this [13].

The idea of pop-up restaurants is not new. Supper clubs, which were exclusive dining establishments with carefully chosen menus, rose to fame in the 1960s. These events are frequently planned on roofs, abandoned buildings, or pre-existing kitchens. Chefs find these experiences interesting since they are affordable and allow them to experiment with different ideas. One excellent illustration of how transient and transitory places may be used for creativity and sustainable business methods is the concept of pop-up restaurants. Another illustration of how small, temporary venues can still be utilized to fulfill the essential tasks of a food company is the street vendors selling food in Mumbai. The emergence of trends such as pop-up restaurants and concepts like Mumbai's Flea Bazaar café or Juhu's Bar Banks are the outcome of an in-depth study in the subject of food design, particularly the design of interiors for food [14].

A restaurant is defined as a setting where patrons pay to dine on food cooked and presented on the premises. These days, restaurants go beyond their traditional definitions and formats. These days, they are much more than just places to eat. Future study areas include designing interiors for food and food design itself. Designers, artists, and restaurant owners collaborate to produce original food-related projects and concepts. Their interest in bringing back long-lost customs and traditions, sustainably produced food, cooking, eating, and serving food is growing. On the connection between food and design, numerous hypotheses and research projects are underway. N. Gains (1994) asserts in one of his hypotheses that three factors influence any behavior linked to food: the meal itself, the consumer, and the context. We are investigating the physiological stats of food as well as its nutritional makeup, packaging, pricing, cultural makeup, habits, and memories [15].

The layout of the room takes into account the location, the time, and the type of patrons that will frequent the restaurant. An alternative viewpoint is the five-element meal model proposed by Edwards or Gustafson (2007), which just considers components such as the space, meeting, product, ambiance, and management control system that can be developed. The field of food design is divided into categories such as interior design for food, design with food, and food design. Using food as an unprocessed product is known as "design with food." All products designed for food are considered to be designed for food. The design of areas in which individuals interact with food is known as food space planning or design for food. It considers the interior design, furnishings, colors, lighting, temperature, and music in addition to the dining area.

The primary goal of these research initiatives is to create food in a repeatable and consistent manner. Today's food sector design is always changing. For instance, preparing and consuming meals are no longer distinct processes [16].

The first step in the restaurant planning procedure is selecting a location. Every site undergoes a thorough inspection and analysis, taking into account factors such as projected sales volume, ease of access for prospective clients, traffic volume, customer parking amenities, closeness to other establishments, site history, possibility for future expansion, and spatial arrangement. Additionally, the location should be conveniently close to retailers that sell raw food and services like water and power. The kitchen, eating area, storage, and office space make up the

first section of the restaurant's space. The kitchen needs to be set up for receiving, storing, preparing, cooking, baking, and cleaning dishes. The eating area should be set up with the right number of tables two, four, and six—and should be built with a service traffic flow in mind [17].

Since quick service is so important to the restaurant industry, it is central to the design of restaurants. Revenue is determined by turnover, which is based on service speed. The arrangement, kitchen design, and furniture design are all impacted by the pace of service. For instance, harsh surfaces are utilized in fast-service restaurants to encourage customers to depart quickly, as opposed to soft chairs in fine dining establishments with delayed service. Kitchen printers, order entry stations, and service stations are a few of the components that contribute to a faster service procedure. To reset tables following each round of service, these stations are stocked with cutlery, glassware, and napkins. They may also have a drinking water supply, an ice container, and a hot plate. A per carte, home style, table-side, fast service, takeout, shipment, drive-thru, banquet, buffet, cafeteria, tray, machine, or satellite systems are the different kinds of service systems. The menu has a significant impact on restaurant design as well. It is frequently referred to as the dining establishment's brain. The chef's opinion is vital to the menu's design and, by extension, the space's design. For instance, nobody wants to consume expensive food in a cafeteria setting [18].

A thorough and environmentally conscious approach to the designing, building, running, and ultimate decommissioning of dining areas is embodied in life cycle planning for eating spaces. This idea goes beyond the conventional emphasis on design and utility to take into account the effects these spaces have on the environment, society, and economy throughout their whole life. A life cycle design strategy looks for materials that are sustainably sourced and environmentally beneficial, starting with the basic materials utilized in construction. By doing this, the ecological footprint is reduced right away. To reduce resource consumption and impact on the environment, energy-efficient technology, waste reduction methods, and sustainable practices like recycling and composting are implemented during the operational phase [19].

The social component of life cycle design for dining establishments is developing settings that are welcoming, easily accessible, and culturally aware. This involves taking into account the various requirements, tastes, and cultural customs surrounding the food intake of users. The layout should encourage pleasant interactions among people in the area while promoting a sense of belonging, well-being, and health. Life cycle design attempts to optimize expenses across the whole duration of the dining place about economic sustainability. This entails taking into account both the upfront building expenditures as well as ongoing operating and maintenance expenses. Investing in energy-efficient technologies and long-lasting materials could save money during operation and increase the space's overall viability from an economic standpoint [20].

Finally, the final stage of life is taken into account, stressing the significance of material recyclability, reuse, or responsible disposal. By planning having the end in mind, the eating area will be designed to have as little negative influence as possible when its useful life comes to an end. To sum up, life cycle planning for dining areas incorporates social, environmental, and economic factors that occur throughout the space's existence. Using this method can help designers build resilient, adaptive, and sustainable dining spaces that benefit both the ecosystem as a whole and the health of its patrons.

## 5. CONCLUSION

To sum up, using a life cycle design method for dining areas is essential to guaranteeing sustainability and reducing environmental effects. Through a comprehensive life cycle

analysis, encompassing raw material extraction, waste management, and recycling, designers can make well-informed decisions that emphasize efficiency, resilience, and recyclability. Ethically conscious design, energy-saving appliances, and trash minimization techniques can prolong the life of dining areas while reducing their environmental impact. Furthermore, a life cycle design method promotes a comprehensive viewpoint, encouraging the examination of the cultural and social components connected to these areas. In the end, adopting a life cycle design for dining areas encourages the development of resilient, adaptive, and supportive environments that support a sustainable and conscientious approach to food consumption, in addition to improving environmental responsibility.

#### REFERENCES:

- [1] V. D. A. Surya and G. P. Adhitama, "RUMAH GADANG: RUANG DAN BUDAYA MAKAN DALAM SIKLUS HIDUP MASYARAKAT MINANGKABAU," *Serat Rupa J. Des.*, 2021.
- [2] G. Halpern, A. S. Setti, D. Paes de Almeida Ferreira Braga, A. Iaconelli, and E. Borges, "REDUCED OOCYTE QUALITY JUSTIFIES POOR ICSI OUTCOMES AMONG SMOKERS AND SUGAR CONSUMERS," *Fertil. Steril.*, 2020.
- [3] H. Huzain, "pengelolaan sumber daya," *Front. Neurosci.*, 2021.
- [4] A. Mestre and T. Cooper, "Circular product design. A multiple loops life cycle design approach for the circular economy," *Des. J.*, 2017.
- [5] L. Jaillon and C. S. Poon, "Life cycle design and prefabrication in buildings: A review and case studies in Hong Kong," *Autom. Constr.*, 2014.
- [6] L. Kong *et al.*, "A life-cycle integrated model for product eco-design in the conceptual design phase," *J. Clean. Prod.*, 2022.
- [7] J. Ma, M. Kwak, and H. M. Kim, "Demand trend mining for predictive life cycle design," *J. Clean. Prod.*, 2014.
- [8] K. Vink, "Sustainable life cycle design aspects: how aware are material scientists?," *SN Appl. Sci.*, 2020.
- [9] Z. Wang, W. Jin, Y. Dong, and D. M. Frangopol, "Hierarchical life-cycle design of reinforced concrete structures incorporating durability, economic efficiency, and green objectives," *Eng. Struct.*, 2018.
- [10] R. Mungkung, S. Dangsiri, and S. H. Gheewala, "Development of a low-carbon, healthy and innovative value-added riceberry rice product through life cycle design," *Clean Technol. Environ. Policy*, 2021.
- [11] J. Kleinekorte *et al.*, "Life Cycle Assessment for the Design of Chemical Processes, Products, and Supply Chains," *Annual Review of Chemical and Biomolecular Engineering*. 2020.
- [12] D. Menerey, "Sustainable development by design: a review of life cycle design and related approaches," *Air Waste*, 1994.
- [13] F. Jahandideh, S. N. Raman, M. Jamil, and Z. I. Syed, "Carbon footprint assessment in the life-cycle design of concrete structures in the tropics: A case study of residential buildings in Malaysia," *J. Des. Built Environ.*, 2020.

- [14] J. Keller, C. Scagnetti, and S. Albrecht, "The Relevance of Recyclability for the Life Cycle Assessment of Packaging Based on Design for Life Cycle," *Sustain.*, 2022.
- [15] D. Y. Zhang, S. S. Yu, and Q. J. Yue, "General concerns the life-cycle design of economical ice-resistant structures in the Bohai sea," *Polish Marit. Res.*, 2017.
- [16] I. J. Navarro, V. Yepes, and J. V. Martí, "Sustainability life cycle design of bridges in aggressive environments considering social impacts," *Int. J. Comput. Methods Exp. Meas.*, 2021.
- [17] U. Ræbild, "Sustainable collection practices and life cycle strategies: A fashion design perspective," *Artifact*, 2021.
- [18] K. Ishii, "Life-cycle engineering design," *J. Mech. Des. Trans. ASME*, 1995.
- [19] M. Naito, H. Ohmori, and M. Hachisuka, "Life cycle design for building structures: Life cycle design considering seismic hazard," *J. Struct. Constr. Eng.*, 2010.
- [20] G. A. Keoleian, "The application of life cycle assessment to design," *J. Clean. Prod.*, 1993.

## CHAPTER 11

### INCREASED LIFE SPAN: A COMPREHENSIVE STAGES OF AGING AND PHASES AFTER RETIREMENT

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#### **ABSTRACT:**

The goal of living longer has long been central to discussions in science and society. This in-depth analysis explores the complex aging process and the stages people go through after retiring. It examines the psychological, social, and biological facets of aging while navigating the complex tapestry of human existence. The review examines the physical alterations that people go through as they enter middle and late adulthood, starting with the early stages of adulthood. It clarifies the ways that aging is influenced by genetics, environment, and lifestyle decisions. A critical period that is characterized by changes in daily routines, interpersonal relationships, and mental health occurs after retirement. Beyond traditional viewpoints, the study explores new developments in lifestyle changes, medical improvements, and upcoming technology that have the potential to prolong human lifespans. This review adds to a comprehensive knowledge of longevity by elucidating the complexities of aging and the post-retirement period. By doing so, it provides insights that may guide healthcare decisions, policy decisions, and personal choices about the pursuit of a longer and more satisfying life.

#### **KEYWORDS:**

Aging, Life Span, Life Expectancy, Retirement, Society.

#### **1. INTRODUCTION**

The average human life expectancy has increased significantly during the last century in comparison to all other eras. It has increased by two healthy years in addition to doubling. Given that longer lifespans would alter how older persons live, this longevity revolution might have the same historical impact as the Industrial Revolution. Most of them have another third of their lives left once they turn sixty. This is the customary retirement age. After we retire, our needs, behaviors, and expectations will change as we add more years of health to our lives. The three-stage paradigm of job, education, and retirement is flawed [1], [2]. The traditional meaning of retirement is out of style; it used to be thought of as a period spent withdrawing from society and employment and connected to a certain age for leisure and relaxation. A few characteristics could still be present, but the degree and intensity of involvement might change. The revised interpretation is more in line with a customized and adaptable strategy. To continue growing and developing personally, retirees may take up new interests, occupations, or pastimes [3], [4].

Living longer beyond the traditional retirement age has brought about a paradigm shift in personal goals, societal norms, and the very essence of human existence. With increased longevity becoming a defining characteristic of the contemporary period, life after retirement is profoundly redefined. Post-retirement life has changed from being associated with the idea of a short break at the end of one's life to a lively and perhaps lengthy chapter full of chances, challenges, and endless possibilities. The longer life expectancy after retirement forces people to reevaluate how they approach this stage of life, requiring adjustments to healthcare plans, financial preparation, and their search for personal satisfaction. In this extended post-career era, retirement itself becomes a new concept, one that goes beyond the simple ending of work-

related responsibilities to include a time of ongoing personal development, intentional involvement, and the exploration of interests that were put on hold during a career's hard years. A more complex approach is now necessary for financial planning, which was previously largely concerned with providing for people for a certain amount of time after retirement [5], [6] This is because people may live for decades after retirement. To maintain financial stability and resilience in the face of prolonged life duration, this shift challenges the retirement models that are now in place and encourages people to investigate creative investment methods, alternative income streams, and chances for lifelong learning. Moreover, as the population ages, the healthcare system experiences a profound upheaval. Preventive care, wellness programs, and technological developments in medicine are highly valued for their ability to not only manage age-related health issues but also to support general health and vigor in later life. The way that society views the elderly is also changing as a result of growing awareness of the important roles that older people may play in the family, the workplace, and the community [7], [8].

‘For the sake of intergenerational peace and social advancement, it is imperative to use the abundance of knowledge, wisdom, and abilities that older folks possess. This longer life after retirement is not without its difficulties, however. Comprehensive societal changes are required in light of issues like ageism, social isolation, and the possible impact on healthcare and pension systems. Building strong social support networks, encouraging inclusive employment practices, and developing age-friendly communities are all essential elements in tackling these issues. In addition, a rethinking of education and skill development is necessary in light of the paradigm change in the temporal organization of life, which promotes lifelong learning [9], [10].

Developing a feeling of purpose and meaningful participation becomes critical as people make their way through this unexplored area of extended post-retirement life. Following one's passions, volunteering, mentoring, and discovering new hobbies all add to the enrichment of the larger community in addition to enhancing one's happiness. Essentially, the longer life expectancy after retirement is a call to action for society to adopt a more comprehensive and innovative perspective on aging. It pushes us to rethink achievement, happiness, and contributions to society in light of living longer, fuller lives. Retirement becomes less of a denouement and more of an epilogue, with people able to write the endings to their own stories and add to the fabric of society that is stitched together by experience, resiliency, and the never-ending search for meaning. The post-retirement journey presents an odyssey of boundless possibilities as time expands, inviting people to set out on a journey of self-discovery, ongoing development, and the establishment of a legacy that surpasses the confines of conventional retirement age.

## **2. LITERATURE REVIEW**

Conti B et al. [11] Explained mice that are transgenic and have a lower core body temperature also live longer which is It has been suggested that lowering core body temperature contributes to calorie restriction's (CR) longer life span and antiaging benefits. It has been challenging to validate this theory in homeotherms, mostly because there aren't enough experimental models. We find increased hypothalamus temperature in transgenic mice that overexpress uncoupling protein 2 (Hcrt-UCP2) in hypocretin neurons. The core body temperature decreased by 0.3° to 0.5°C as a consequence of the effects of the neighborhood rise on the central thermostat. Hcrt-UCP2 transgenic mice were fed ad libitum and consumed the same amount of calories as their littermates of the wild type, but they were more energy efficient and lived longer on average.

Hsu P et al. [12] described seniors' reactions to social participation apps which is Many nations have seen increases in average life expectancy due to medical treatment, which has led to an overall longer post-retirement life span. Retirees could, however, find it challenging to adjust to retirement. It is crucial to encourage retirees to interact with society as a result. Objective To improve seniors' intentions and actions related to social involvement, a senior social engagement mobile application (SSP-App) was created specifically for this research. Methods: A quasi-experimental research was carried out after the SSP-App was developed based on user experiences. The Keelung Ren'ai Cultural Center served as the recruitment site for participants. The participants were then divided into experimental and control groups at random using Random Allocation Software Version 1.0.0. While the 53 individuals in the control group did not engage in any experimental treatment programs, the fifty-four people in the experimental cohort participated in an SSP-App program.

Fahy A. et al. [13] described adversity and socioeconomic disadvantage experienced as children which is The goal of the Extending Working Lives (EWL) program is to keep people employed beyond conventional retirement years. To shape proactive measures early in life to improve people's future capability for prolonging their working lives, this research looked at the possible influence of childhood characteristics on labor force participation and leaving among older persons. Prior research has connected childhood adversity and economic disadvantage to poor health throughout life and early adult illness benefits. By investigating correlations between childhood adversity and expressed labor force involvement among older individuals (aged 55), this study expands on earlier findings. The National Development of Children Study, an upcoming cohort of all births in England, Scotland, and Wales during a single week in 1958, provided the data. Adversity in infancy was linked to a higher risk of chronic illness at age 55, according to the evidence. These links persisted even after accounting for adult characteristics (qualifications, socioeconomic disadvantage, and disengagement from school).

Gülcan F et al. [14] explained oral health disparities associated with early and later life socioeconomic circumstances which is According to a life cycle viewpoint, socially structured exposures have an impact on dental health at every stage of life. This research evaluated the effect of socioeconomic factors in early and later life on missing teeth and oral effects on daily performances (OIDP) in individuals 65 and 70 years of age. It was also investigated whether socioeconomic disparities in oral health altered after the typical retirement age was reached. The theory behind "the latent impact life course model" states that, regardless of later-life social circumstances, unfavorable early-life social situations raise the likelihood of tooth loss and damaged oral-inferior dental pulp. Techniques: Two cohort studies carried out in Sweden and Norway provided the data. The surveys' 2007 and 2012 waves were utilized for this investigation. Gender, education level, and place of birth were used to evaluate social circumstances in early life; working status, marital status, and social network size were used to measure social conditions in later life. The use of generalized estimation and logistic regression.

Löckenhoff C [15] described retirement comprehension as the potential of lifespan developmental frameworks which is Large population cohorts are about to retire, which makes it imperative to implement workable solutions to improve results for both individuals and society as a whole. This calls for thorough theoretical models that clarify the dynamic processes behind longitudinal developments in adjustment and recognize the multi-layered structure of the retirement process. Using the specific examples of Bronfenbrenner's ecological Modeling, Baltes and Baltes's Selective optimization with Compensation Framework for Windows, Schulz and Heckhausen's Positive Theory of Life-Span Development, and Carstensen's Social,

emotional, Selectivity Theory, the current commentary demonstrates how modern life-span developmental systems can inform retirement research. In the end, a life-span developmental view on retirement offers fresh perspectives on well-recognized phenomena and might also point to interesting avenues for future study and action.

Hamm J [16] described they engage with six primary life domains: change, for better or worse, and stability which is In the adult life span, adaptability is linked to active interaction with several life domains, or cross-domain engagement. Less is known, however, about the significance of cross-domain involvement during major life cycle transitions—like the move to retirement that may provide a challenge to motivational resources. The motivational theory of lifespan growth served as the foundation for this study, which identified cross-domain engagement profiles and evaluated how these profiles changed and stabilized as participants moved from work to retirement using 9 years of data from the national The middle decades in the US Study, the study also looked at the potential effects of stability and variation in involvement profiles on psychological adjustment.

Three cross-domain engagement profiles (high engagement, low work participation, and moderate engagement) appeared before and after retirement, according to the results of hidden profile analyses. According to latent transition analysis, the majority of particles.

Olshansky S et al. [17] explained Future developments in geroscience will impact the longevity of both present and future generations, posing possibilities and problems for people who are nearing or have reached retirement age. The life cycle adjustments that follow will have an impact on those approaching retirement-related periods of life. Individuals need to prepare for that latter stage of life, particularly because most planning methods used now are out-of-date or nonexistent.

Tausen B et al. [18] explained the mental terrain of imagining life after the present life expectancy which is Future generations may live longer and be in better health thanks to the quick developments in diet, technology, and medicine. Although life extension has attracted interest from many fields, there are few psychological viewpoints on the subject. We filled this vacuum in three research by investigating important mental traits and psychological factors related to modeling an extended life span and, therefore, an exceedingly distant future self. Design and Methods of the Research: Three research examined how participants felt related to their future selves (self-continuity) and how they construed (valence, vividness, or visual perspective) very distant future simulations.

Morrow-Howell and NLeon J [19] described the findings of path analysis to elucidate the factors influencing labor effort in postretirement months throughout the life span. It was discovered that a collection of pensioners who did not work for three years after retiring and those who worked over three hundred hours yearly had distinct psychological and structural traits. Before retirement, the job records of those who remained in the workforce after retirement were more favorable.

Conversely, even if their income was lower, those with more marginal previous employment were less inclined to continue working after retirement.

Rodriguez F et al. [20] explained the influence of money and education on cognitive abilities in old age which is significant differences in the impact size of education between nations Our results highlight the importance of education for cognitive health over money. The negative effects of poverty on cognitive performance may be mitigated by higher education. Little impact sizes in Germany and Switzerland continue to be perplexing.

### 3. DISCUSSION

Years after retirement will be very important due to India's aging population, which is the country's next demographic stage, as well as the country's longer life expectancy. The aging process and the years that follow retirement are complex journeys with distinct possibilities, difficulties, and changes at each turn. In the early stages of aging, physical and cognitive skills frequently slow down gradually, forcing people to adjust to changing capacities.

Changes in lifestyle, tracking of health, and the implementation of preventative measures to sustain wellbeing may accompany this phase. Retirement approaches, and with it a period of transition marked by the end of formal work.

At this point, people may reflect on themselves and reevaluate their objectives as they make the transition from a career-focused life to a more leisure-focused one. Early retirement years might see people embracing their newly acquired autonomy from work-related commitments, traveling, and exploring interests that have been put on hold.

The second phase, however, goes into more detail on the complexities of long-term planning, monetary issues, and the possibility of redefining one's identity outside of the workplace. As people enter the middle phases of aging, it becomes more and more important to preserve both physical and mental health.

A better quality of life is a result of proactive preventive care, regular health check-ups, and a dedication to exercise. Living arrangements may also need to change during this time; some people may want to downsize or move to more age-friendly communities.

The transitional phases of aging are often marked by the interaction of family dynamics, as people assume responsibilities such as becoming grandparents or caretakers, therefore cultivating intergenerational bonds. In addition, older people can discover that, to remain involved and connected, they need to embrace and adapt to new technologies as they develop. The final years of life are a time to consider the legacy you want to leave behind. Estate planning, the consolidation of life experiences, and a more in-depth discussion of existential or spiritual issues may all be part of this stage. With a focus on community engagement, mentoring, and the sharing of lifelong expertise, social relationships are becoming more and more important.

The post-retirement path eventually comes to a point when people face the certainty of death and enter a contemplative and accepting phase. This time frame encourages reflection on the influence one has had on others, the development of a feeling of purpose and meaning, and the creation of coping strategies for the difficulties that come with growing older. Fostering conditions that promote older people's well-being is crucial as society struggles with the effects of an aging population.

A happy and satisfying aging process depends on inclusive social structures, healthcare that is easily available, and age-friendly communities. Essentially, the aging process and the post-retirement years build a tapestry of Development, Adaptability, and Resilience. It takes a comprehensive strategy to navigate this complex path, one that considers mental, physical, and financial well-being in addition to an ongoing search for meaning. To guarantee that the latter phases of life are characterized by dignity, satisfaction, and a feeling of belonging, society must actively work to create an atmosphere that celebrates the depth of experience, recognizes the contributions made by previous generations, and supports people as they go through these stages. Figure 1 shows the Retirement Story Set.



**Figure 1: Represents Retirement Story Set.**

### *3.1 Stages of Aging:*

*The stages of aging are illustrated below:*

#### *3.1.1 Independence:*

Older adults are capable of taking care of themselves and don't need caregiving.

#### *3.1.2 Interdependence:*

They could begin to forget things, yet they find it awkward to ask for assistance.

#### *3.1.3 Dependency:*

They need a caretaker since they find it difficult to do daily tasks. To regain their functional independence, some individuals in this stage attend geriatric rehabilitation.

#### *3.1.4 Crisis Management:*

They need emergency medical attention.

#### *3.1.5 End of Life:*

Palliative or hospice care may be preferred by some. A senior society is the only one that caters to the independent stage of aging, while assisted living, nursing homes, and old age homes are centered on the dependent and crisis management phases of aging. These typologies' roles are characterized in terms of programs, user independence, healthcare aid, cost, and applicability.

### *3.2 Senior Citizen Views after Aging:*

The majority of senior citizen typologies now in use address the detrimental effects of aging, such as social isolation, caretaker stress, and physical and mental deterioration. However, if elders continue to live longer and in better health, their requirements and tastes will shift. As people live longer and healthier lives, the time between retirement and the dependence stage also known as the independent and interdependent stage is becoming longer. Soon after retiring, older folks fall into this group because they don't want to give up their independence and privacy. They have the benefit of seizing new chances during their healthy years. However, they lack a space where they may focus their energies, improve their abilities, and engage with

other age groups. There will be a change in the societal perception of aging as people become more conscious of the advantages of growing older and the contributions seniors may make.

### *3.3 Phases after Retirement:*

While everyone's experience with these phases may vary, most of us go through them. The vacation period may be the best way to retire since there is no defined schedule. However, its shine will soon fade, and we could start to miss the routine. We may even experience a loss of power. We may lose the feeling of identity and purpose we had developed at work. Some people could experience despair, worry, or even terror. However, the benefits of retirement form the foundation of the next two phases. Coming up with fresh ideas for contributing based on our interests and areas of expertise. A sense of accomplishment and contentment after overcoming setbacks. The thesis looks at the third stage of retirement, which is when individuals pursue new hobbies and go into uncharted territory in their later years of maturity.

### *3.4 Social Theories of Aging:*

It outlines the anticipated trajectories from middle age to old age, taking into account societal variables. The ideas make an effort to explain how social interactions and engagements alter after retirement. As people age, they inevitably retreat from one another, which reduces their involvement with others in the social system. According to this belief, it is normal and appropriate for elderly persons to isolate themselves from society and get more and more consumed with their own lives. The role theory Losing identity and purpose is a result of changing roles. An employee loses their identity when they retire. The anticipated lifestyle is also defined by age standards and age-related abilities. Following the social cycle prevents us from identifying with the roles we formerly did. In opposition to the disengagement hypothesis, the activity theory plays a role. Activity, sometimes known as "The Busy Ethic," helps older persons transition to retirement. It represents the functionalist viewpoint that a person's middle-aged balance should be preserved throughout old age. According to the hypothesis, when older persons experience a loss of their roles, they will replace them with new ones. The concept of continuity theory describes how people adapt to retirement by continuing to engage in hobbies and professions they formerly loved. Keeping up an active lifestyle by continuing to engage in activities they like or substituting them with healthier ones.

#### *3.4.1 Age Stratification:*

It examines cohorts of elderly people rather than single individuals. Similar life phases may be seen in behaviors; for example, those born during the Great Depression tend to be less consumptive. Groups of cohorts that age together make up society. Along with society as a whole, the individuals and positions within these cohorts also undergo change and mutual effect. The degree of reliance between older persons and society is thus rather significant.

#### *3.4.2 Modernization Theory:*

It makes the argument that as society becomes more modern and industrialized, social roles and conventions shift, influencing how people see and interact with aging. This had significance in India in the 1960s.

The activity theory is the social theory that applies to modern society the most out of all the others discussed. It suggests that maintaining social connections and an active lifestyle are key components of effective aging. It adopts the stance that keeping elderly people socially engaged delays the aging process and improves their quality of life. It represents the functionalist viewpoint that a person's middle-aged balance should be preserved throughout old age.

### *3.5 Positive Impact of Aging Population on Society:*

The accumulation of knowledge, wisdom, and stability that comes with age has a beneficial effect on society. Due to their experience and expertise, older people often make important contributions to the profession and act as role models and mentors for younger generations. Their varied viewpoints improve interpersonal relationships and intergenerational comprehension, strengthening the bonds of the community. Seniors also often participate in civic engagement and volunteer work, lending their time and experience to a range of issues that improve society as a whole. The ongoing involvement of elderly people in the working is beneficial to the economy since they often offer a steady and dependable labor force. Furthermore, the need for products and services to meet the needs of an older population fosters economic expansion and innovation. Older people are essential in providing care and fostering family ties since they are the cornerstones of support within families. Essentially, the aging population contributes to the vitality and inclusiveness of society by strengthening the fabric of society and ensuring cultural continuity.

#### *3.5.1 Stronger Emphasis on Experience:*

Seniors may provide a plethora of intricate and captivating life lessons to whatever social group they are a part of since they have accumulated experience over the years. It could result in greater tolerance for their distinct origins and a more varied and well-rounded view of society.

#### *3.5.2 Increased educational attainment*

Certain retirees could choose to continue their studies. In 2030, we could see the beginning of a golden era of higher education, with both the young and the elderly benefiting from widespread access to education.

#### *3.5.3 Improved Mentorship for Young People:*

As the population ages, younger individuals will have more opportunities to interact with older mentors and get fresh perspectives, boosting.

#### *3.5.4 Primary Caregivers:*

These elderly people are not a burden on the neighborhood; rather, they are caring for their grandchildren and their families of origin, striving to provide them with the food, housing, and emotional support they need.

#### *3.5.5. Contribution to the Community:*

Realize the value of older people's associations' local expertise and capacity for community organization in disaster relief operations.

## **4. CONCLUSION**

The quest for a longer life expectancy requires a sophisticated comprehension of the whole range of aging and the changing periods that come after retirement. The complex interactions between the three domains over the lifespan have been highlighted by this investigation. Early adulthood lays the groundwork for aging, with lifestyle decisions and genetic predispositions determining the course. Physiological alterations intensify as people go through middle to late adulthood. Following retirement, a critical period occurs that is characterized by changes to daily schedules, social interactions, and mental health. The review has brought attention to the possible effects of new medical advancements, lifestyle changes, and upcoming technology on

prolonging human lifetime, going beyond traditional viewpoints. A more comprehensive view of lifespan that has consequences for healthcare strategy, policy creation, and individual decision-making is revealed by combining these concepts. It is becoming more and more important for educated and practical methods to promote good health and longevity to acknowledge the complex nature of maturing and the post-retirement periods, as society looks for ways to improve both the quality and length of life.

#### REFERENCES:

- [1] D. Saul and R. L. Kosinsky, “Epigenetics of aging and aging-associated diseases,” *International Journal of Molecular Sciences*. 2021. doi: 10.3390/ijms22010401.
- [2] Y. Cai *et al.*, “The landscape of aging,” *Science China Life Sciences*. 2022. doi: 10.1007/s11427-022-2161-3.
- [3] C. López-Otín, M. A. Blasco, L. Partridge, M. Serrano, and G. Kroemer, “The hallmarks of aging,” *Cell*. 2013. doi: 10.1016/j.cell.2013.05.039.
- [4] J. Wu, Y. Liu, Y. Song, L. Wang, J. Ai, and K. Li, “Aging conundrum: A perspective for ovarian aging,” *Frontiers in Endocrinology*. 2022. doi: 10.3389/fendo.2022.952471.
- [5] J. Campisi, P. Kapahi, G. J. Lithgow, S. Melov, J. C. Newman, and E. Verdin, “From discoveries in ageing research to therapeutics for healthy ageing,” *Nature*. 2019. doi: 10.1038/s41586-019-1365-2.
- [6] K. Van Avondt, J. K. Strecker, C. Tulotta, J. Minnerup, C. Schulz, and O. Soehnlein, “Neutrophils in aging and aging-related pathologies,” *Immunological Reviews*. 2023. doi: 10.1111/imr.13153.
- [7] A. S. Kulkarni, S. Gubbi, and N. Barzilai, “Benefits of Metformin in Attenuating the Hallmarks of Aging,” *Cell Metabolism*. 2020. doi: 10.1016/j.cmet.2020.04.001.
- [8] J. L. Schneider, J. H. Rowe, C. Garcia-de-Alba, C. F. Kim, A. H. Sharpe, and M. C. Haigis, “The aging lung: Physiology, disease, and immunity,” *Cell*. 2021. doi: 10.1016/j.cell.2021.03.005.
- [9] S. Atalay, M. Sheikh, A. Mariani, Y. Merla, E. Bower, and W. D. Widanage, “Theory of battery ageing in a lithium-ion battery: Capacity fade, nonlinear ageing and lifetime prediction,” *J. Power Sources*, 2020, doi: 10.1016/j.jpowsour.2020.229026.
- [10] T. Teissier, E. Boulanger, and L. S. Cox, “Interconnections between Inflammageing and Immunosenescence during Ageing,” *Cells*. 2022. doi: 10.3390/cells11030359.
- [11] B. Conti *et al.*, “Transgenic Mice with a Reduced Core Body Temperature Have an Increased Life Span,” *Science (80-. )*, vol. 314, no. 5800, pp. 825–828, Nov. 2006, doi: 10.1126/science.1132191.
- [12] P.-T. HSU, C.-S. HO, Y.-F. HO, J.-J. CHEN, and I.-J. CHEN, “The Effects of a Social Participation App on Seniors,” *J. Nurs. Res.*, vol. 29, no. 5, p. e168, Oct. 2021, doi: 10.1097/JNR.0000000000000451.
- [13] A. E. Fahy *et al.*, “Longitudinal associations of experiences of adversity and socioeconomic disadvantage during childhood with labour force participation and exit in later adulthood,” *Soc. Sci. Med.*, vol. 183, pp. 80–87, Jun. 2017, doi: 10.1016/j.socscimed.2017.04.023.

- [14] F. Gülcan, G. Ekbäck, S. Ordell, A. A. Lie, and N. N. Åstrøm, “Inequality in oral health related to early and later life social conditions: A study of elderly in Norway and Sweden,” *BMC Oral Health*, 2015, doi: 10.1186/s12903-015-0005-y.
- [15] C. E. Löckenhoff, “Understanding retirement: the promise of life-span developmental frameworks,” *Eur. J. Ageing*, vol. 9, no. 3, pp. 227–231, Sep. 2012, doi: 10.1007/s10433-012-0241-9.
- [16] J. M. Hamm, J. Heckhausen, J. Shane, F. J. Infurna, and M. E. Lachman, “Engagement with six major life domains during the transition to retirement: Stability and change for better or worse.,” *Psychol. Aging*, vol. 34, no. 3, pp. 441–456, May 2019, doi: 10.1037/pag0000343.
- [17] S. J. Olshansky, B. Willcox, K. Ashburn, J. Stuke, and C. Willcox, “Personalized Financial Planning Using Applied Genetics,” *Cold Spring Harb. Perspect. Med.*, vol. 13, no. 5, p. a041206, May 2023, doi: 10.1101/cshperspect.a041206.
- [18] B. M. Tausen, A. Csordas, and C. N. Macrae, “The Mental Landscape of Imagining Life Beyond the Current Life Span: Implications for Construal and Self-Continuity,” *Innov. Aging*, vol. 4, no. 3, May 2020, doi: 10.1093/geroni/igaa013.
- [19] N. Morrow-Howell and J. Leon, “Life-Span Determinants of Work in Retirement Years,” *Int. J. Aging Hum. Dev.*, vol. 27, no. 2, pp. 125–140, Sep. 1988, doi: 10.2190/5Y77-KVT3-M944-GEAD.
- [20] F. S. Rodriguez, L. M. Hofbauer, and S. Röhr, “The role of education and income for cognitive functioning in old age: A cross-country comparison,” *Int. J. Geriatr. Psychiatry*, vol. 36, no. 12, pp. 1908–1921, Dec. 2021, doi: 10.1002/gps.5613.

## CHAPTER 12

# UNLOCKING THE SECRETS OF SLEEP: A COMPREHENSIVE GUIDE TO UNDERSTANDING THE SCIENCE, BENEFITS, AND IMPACT OF QUALITY REST

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### ABSTRACT:

Sleep is a naturally recurring state of mind and body characterized by reduced consciousness, decreased muscle activity, and decreased response to external stimuli and autonomic changes that are necessary for normal brain functioning. During sleep, the body goes through a series of physiological processes that help to restore and rejuvenate the body and mind. It is not a passive process but requires the collaboration of various regulatory mechanisms. Interference with regular sleep patterns can be dangerous as well as expensive, and reduce stress levels. It can also improve your mood and help you to make better decisions. Good sleep also helps to protect against a variety of chronic health conditions, including heart disease and diabetes. Furthermore, it is important for proper growth and development in adults. Sleep is an essential part of our overall health and well-being. Sleep helps our bodies to restore energy, repair damage, and regulate hormones and other important functions. It also gives us time to rest, relax, dream, and process the events of our day. Getting enough sleep helps us to stay alert and focused, and can even help us to stay in a better mood. It's important to get enough sleep each night to help us stay productive and function our best. It can boost your immune system.

### KEYWORDS:

Brain, Human Body, Mind, Sleep, Stress Level.

## 1. INTRODUCTION

Sleep is a state of reduced mental and physical activity in which consciousness is altered and sensory activity is inhibited to a certain extent. During sleep, there is a decrease in muscle activity and interactions with the surrounding environment. While sleep differs from wakefulness in terms of the ability to react to stimuli, it still involves active brain patterns, making it more reactive than a coma or disorders of consciousness. Sleep occurs in repeating periods, during which the body alternates between two distinct modes: REM and non-REM sleep. Although REM stands for "rapid eye movement", this mode of sleep has many other aspects, including virtual paralysis of the body. Dreams are a succession of images, ideas, emotions, and sensations that usually occur involuntarily in the mind during certain stages of sleep. During sleep, most of the body's systems are in an anabolic state, helping to restore the immune, nervous, skeletal, and muscular systems these are vital processes that maintain mood, memory, and cognitive function, and play a large role in the function of the endocrine and immune systems [1], [2].

The internal circadian clock promotes sleep daily at night. The diverse purposes and mechanisms of sleep are the subject of substantial ongoing research. Sleep is a highly conserved behavior across animal evolution, likely going back hundreds of millions of years. Humans may suffer from various sleep disorders, including dyssomnias such as insomnia, hypersomnia, narcolepsy, and sleep apnea; parasomnias such as sleepwalking and rapid eye movement sleep behavior disorder; bruxism; and circadian rhythm sleep disorders. The use of

artificial light has substantially altered humanity's sleep patterns. Common sources of artificial light include outdoor lighting and the screens of electronic devices such as smartphones and televisions, which emit large amounts of blue light, a form of light typically associated with daytime. This disrupts the release of the hormone melatonin needed to regulate the sleep cycle. Sleep is a naturally recurring state of mind and body characterized by reduced consciousness, decreased muscle activity, and decreased response to external stimuli and autonomic changes that are necessary for normal brain functioning. During sleep, the body goes through a series of physiological processes that help to restore and rejuvenate the body and mind. It is not a passive process but requires the collaboration of various regulatory mechanisms. Interference with regular sleep patterns can be dangerous as well as expensive and reduce stress levels. It can also improve your mood and help you to make better decisions. Good sleep also helps to protect against a variety of chronic health conditions, including heart disease and diabetes. Furthermore, it is important for proper growth and development in both children and adults [3], [4].

### *1.1. Why do we sleep?*

Despite decades of research, scientists are still uncovering the full reasons why we need to sleep. However, there is a growing consensus that sleep is essential for the maintenance of physical and mental health. Sleep is an essential part of our overall health and well-being. Sleep helps our bodies to restore energy, repair damage, and regulate hormones and other important functions. It also gives us time to rest, relax, dream, and process the events of our day. Getting enough sleep helps us to stay alert and focused, and can even help us to stay in a better mood. It's important to get enough sleep each night to help us stay productive and function our best. It can boost your immune system [5], [6]. Figure 1 Illustration of the Boy Sleeping in Bed Stock.



**Figure 1: Illustration of the Boy Sleeping in Bed Stock [I STOCK].**

Getting enough sleep is crucial for good health and longevity, with adults recommended to get 7-8 hours of sleep each night and children needing 10 hours. However, research indicates that the Indian population is not getting enough sleep. According to a study, the average sleep duration in urban areas is approximately 6.55 hours per day. The prevalence of sleep disorders in India is high, with as many as 33% of adults experiencing insomnia. Lack of sleep can have a deep and extensive impact on health, including reduced productivity, impaired decision-making, increased risk of obesity and coronary heart disease, and even fatal accidents from drowsy driving. Lack of sleep also significantly affects children, causing behavioural impairments and mood disruptions during the day. Sleep-related issues are prevalent in our

current society to the extent that they are now considered a public health crisis. A study carried out by a major consumer goods company has found that approximately 93% of Indians suffer from sleep deprivation. Additionally, 72% of Indians wake up between one to three times per night, and 87% of them report that insufficient sleep negatively affects their health. With regards to productivity, the study also reveals that over 58% of Indians believe that their work performance is negatively impacted by the lack of adequate sleep, and 38% have observed colleagues falling asleep on the job.

The changing lifestyle and intrusion of modern gadgets and the Covid pandemic have only aggravated the situation. Covid-induced sleep problems have emerged as a global health issue and are labelled as ‘Coronasomnia’. A survey conducted in Maharashtra revealed that almost six out of 10 people who had contracted Covid-19 experienced disruptions in their sleep patterns after recovery. Nearly 16% of those surveyed in the state reported sleeping for less than four hours per night. Across India, 52% of the respondents said they had disturbed sleep patterns. Sachin Taparia of Local Circles, who conducted the survey, mentions an emerging study that people might continue to face difficulty in getting sound sleep regardless of the severity of their symptoms. This has mainly been attributed to pandemic-related stress and anxiety, but local doctors said an increase in the incidence of sleep pain is a major contributor too. The 2017 revision of India’s National Health Policy overlooks the significance of sufficient sleep for the population as a whole, and how sleep restriction, deprivation, and disorders can impact public health and the nation’s health outcomes. Despite being a growing economy with a large population, the lack of sleep quality and quantity has not been given much attention. The major allocation of funds remains to primary healthcare. The lack of awareness about sleep disorders in India affects treatment-seeking behaviour, which makes interventions in this area highly necessary and impactful [7], [8].

The science of sleep is fascinating! it is important to understand how it works and how it affects our overall health and well-being. Sleep plays a vital role in regulating our circadian rhythms, restoring energy, and aiding in memory consolidation. Understanding the science of sleep can help us make better decisions regarding our sleep habits, and ultimately improve our overall health and well-being. experts analyse how sleep works and what happens when we don’t get enough sleep. While there is much that is still to be learned about the intricacies of how sleep works, existing research sheds light on the mechanics of what happens in the brain and body during sleep. minutes and consist of different sleep stages that are essential to the overall functioning of sleep. What Are the Sleep Stages? There are four stages of sleep. The first three are categorized as non-REM (rapid eye movement) sleep and the fourth as REM sleep. During non-REM sleep, the body relaxes, and brain activity slows, allowing for repair and restoration. In contrast, during REM sleep, brain activity increases, and individuals may experience vivid dreaming.

This stage is crucial for enabling key functions like memory consolidation and learning. The cycle of sleep typically lasts about 90 minutes and recurs throughout the night. As the night progresses, the duration of REM sleep increases, with most of it occurring in the second half of the night. The structure of an individual’s sleep stages and cycles is called their sleep architecture. While deep sleep and REM sleep involve more profound changes in activity levels, experts believe that each stage is crucial for a healthy sleep architecture responsible for “quality sleep” [9], [10].

### *1.2.The Cycle & Stages of Sleep:*

Within a minute of falling asleep, notable changes start to occur in both the brain and body including a drop in body temperature, a decrease in brain activity, and slower heart rate and

respiration. Not surprisingly, during sleep, the body's energy expenditure is also lower. Sleep, however, is a dynamic process, as individuals progress through multiple sleep cycles throughout the night. These cycles last between 70 and 120. Figure 2 Illustration of the stages of sleep.



**Figure 2: Illustration of the stages of sleep.**

- i. NREM Stage N1 Falling asleep: heartbeat and breathing slow down muscles begin to relax LASTS: A few mins.
- ii. NREM Stage N2 Light sleep: heartbeat and breathing slow down further no eye movement body temperature drops brain produces sleep spindles that last about 25 mins.
- iii. NREM stage N3 Slow Wave sleep: deepest sleep state heartbeat and breathing at their slowest no eye movement body is fully relaxed delta brain waves tissue repair and growth and cell regeneration immune system strengthens.
- iv. REM Stage R: primary dreaming stage rapid eye movements breathing and heart rate increases limb muscles temporarily paralyzed brain activity is markedly increased [11], [12].

### *1.3. The Body Regulate Sleep:*

Sleep is regulated by two main mechanisms: sleep-wake homeostasis and the circadian alerting system. These two mechanisms have a direct impact on the body's need for sleep, based on factors such as the time of day, light exposure, and how long one has been awake. Sleep-wake homeostasis. Sleep-wake homeostasis refers to the body's ability to build up pressure to sleep based on the duration of being awake, causing one to feel more tired and in need of sleep as time passes. This same mechanism causes individuals to sleep for longer periods after a period of sleep deprivation. Circadian Rhythms What are circadian rhythms and how do they work? Circadian rhythms are a self-generated cycle that lasts roughly 24 hours and triggers physical, mental, and behavioural changes in organisms, primarily responding to light and darkness in one's environment. These rhythms are present in most living things, including plants, animals, and microbes. The majority of the human circadian clock is located in the suprachiasmatic nucleus of the hypothalamus. This clock sends signals to different parts of the body so that it knows when to go to sleep when to wake up, when to eat, and when to be more alert or less alert. Other organs and systems in the body also have their internal clocks, which interact with the SCN to keep our internal rhythms and body functions in sync.

Circadian rhythms are crucial for regulating bodily functions, hormone release, and appetite, and are vital for physical and mental health, as they help synchronize our internal body clocks

with the world around us. Getting enough quality, restful sleep and following a consistent sleep-wake schedule can help support our circadian rhythms. Having healthy sleep and circadian rhythms can help improve our mood, alertness, and overall well-being.

#### *1.4. Chemicals and Hormones Regulate Sleep:*

The process of sleep-wake homeostasis and circadian rhythms involves the interaction of various chemicals and hormones in the body. The brain and body go through numerous changes during the transition from wakefulness to sleep, which are controlled by a complex signaling system involving thousands of neurons. Researchers have identified some substances that seem to be key factors in the machinery of sleep.

One such chemical is adenosine, which is thought to be a key player in sleep-wake homeostasis. Adenosine levels build up when we're awake, and this increase is believed to contribute to the buildup of sleep pressure.

Neurotransmitters are also important chemicals in the nervous system that help to activate or deactivate certain cells through their signals. GABA, acetylcholine, orexin, and serotonin are some examples of neurotransmitters involved in promoting wakefulness or sleep. Melatonin, also known as "the hormone of darkness," acts as a circulating messenger to facilitate the communication of repeating signals between the suprachiasmatic nucleus and the brain, controlling the time to wake and sleep during the circadian cycle.

Besides, starting at dusk, melatonin will be released from the pineal gland and increase its concentration, serving as the biological command for signalling darkness to sleep-generating regions. This phenomenon commences the delivery of sleepiness throughout the entire body, medically named the placebo effect.

Once an individual has slept, the level of melatonin decreases till the dawn of the next day, the time when sun rays penetrate the enclosed eyelid and shut down the secretion of melatonin. This activates one's wakefulness the next morning [13], [14].

#### *1.5. Dreams:*

Dreams are images, thoughts, or feelings that occur during sleep. Visual imagery is the most common National Library of Medicine but dreams can involve all of the senses. Some people dream in colour while others dream in black and white Figure 3 illustration the schematic view of the sleeping during dream.



**Figure 3: Illustration The Schematic View of The Sleeping During Dream.**

National Institute of Neurological Disorders and Stroke and people who are blind tend to have more dream components related to sound, taste, and smell. Generally speaking, dreams are a form of mental imagery that can be experienced in a variety of ways during sleep. This phenomenon can be conscious or unconscious, vivid or fleeting, realistic or surreal.

Dreams occur because our brains are very active while we are sleeping. During sleep, the brain processes information from the day and sorts it out to store it in our memory. It is thought that dreams are the brain's way of helping us to process and make sense of the events of the day. Dreams can also be a way for the brain to process our emotions. Some people believe that dreams are a way of our subconscious communicating with us and can help us to work through difficult issues and even provide insight into our feelings, emotions, and thoughts. They can help us process difficult experiences or events. Others view dreams as a way to escape into a different world. They can also provide a creative outlet and a chance to explore new ideas. Ultimately, dreams are unique to each individual, so there is no single answer to what they are. Dreams can be fascinating, mysterious, and sometimes even a bit frightening. Dreams can have a variety of meanings, depending on the context and the person experiencing them. Whatever your perspective, dreams can be an interesting area to explore and can even help us gain a better understanding of ourselves and our lives.

## 2. LITERATURE REVIEW

A. Goyal et al. [15] the study focused on Medical specialists/consultants who are exposed to various factors such as long duty hours, call duties, academics, meetings, and regulation of departmental work which has adversely affected their sleep quality. Objective: To assess sleep quality and the association of body mass index with quality of sleep among medical consultants working in medical colleges. This is a cross-sectional study and was done by a convenient sampling technique. Pittsburgh Sleep Quality Index was used as the assessment tool which categorizes sleep as good or poor according to the score. The chi-square test was applied to establish an association with the variables. Results: A total of 67 responses were obtained, of which 28 showed good sleep. Among consultants having good quality sleep, the majority were females aged above 40 years. No relationship was seen between BMI and chronic disease. Consultants spent more than 85% of the time in bed sleeping and those going to bed before 10.30 pm had good sleep quality. Conclusion: Good quality of sleep was observed in females, people above 40 years, and those who don't have any chronic disease, though this association of sleep quality with the factors was not significant. Going to bed early had a positive effect on sleep quality. In general, poor sleep quality was seen among medical consultants.

O. Ry bachok et al. [16] In 2008, at the initiative of the World Health Organization, it was decided to celebrate Sleep Day every second Friday of the full week of March. In 2023, this date falls on March 17. Don't be surprised at such an unusual holiday: on average, we spend a third of our lives sleeping, and the importance of sleep is difficult to overestimate. A person who has had a good night's sleep is usually full of strength and health, but if the night was spent badly, it is difficult to expect anything good from the coming day. A sleep-deprived person is characterized by extreme irritability, and a decrease in working capacity, memory, and attention; such a person has a bad mood in the morning and subsequently all day. The month of March was not chosen by chance as many notes fatigue from a prolonged winter, frost, lack of sunlight, slush under their feet, and vitamin deficiency. Healthy and high-quality sleep helps to cope with these troubles.

S. Foundation [17] the study explored how The third trimester of pregnancy brings a host of sleep-related changes as the weight gain and pressure of the growing foetus start to have a direct impact on muscles, joints, and blood flow. If you can't sleep and you're pregnant in your

third trimester, keep reading for advice on how to improve your sleep quality. We'll take a closer look at the factors that influence third-trimester sleep, including conditions like sleep apnoea and restless legs syndrome, and discuss the best third-trimester pregnancy sleeping positions. How Does Sleep Change in the Third Trimester? For most women, the third trimester is the most difficult, bringing back pain, heartburn, and sleep apnoea, among other things. Not only is it more difficult to get quality sleep<sup>2</sup>, but you'll also experience daytime fatigue as a result of your changing body. Back Pain and General Discomfort It's estimated that 2 in 3 women suffer from lower back pain and sore muscles during pregnancy, which in turn causes sleep disturbances. Women with higher levels of depression or anxiety typically describe their back pain as more severe. Depression, Anxiety, and Insomnia strike an estimated 3 in 4 women during late pregnancy. Principal drivers of insomnia in pregnant women include anxiety, depression<sup>7</sup>, disturbed dreams<sup>8</sup>, nighttime awakening, fetal kicking and other movements<sup>9</sup>, and pain and discomfort<sup>10</sup> from the baby bump. Frequent bathroom breaks due to overactive kidneys and the weight of the uterus against the bladder can also disrupt sleep<sup>11</sup>. Snoring and Sleep Apnea A significant number of women develop snoring and sleep apnoea during pregnancy. Although often benign, this may also be a warning sign of a more severe condition.

H. Tang et al. [18] the study explored Coronavirus disease 2019 has resulted in a significantly large number of psychological consequences, including sleep health. The present study evaluated sleep patterns, sleep disturbances, and associated factors in Chinese preschoolers confined at home during the COVID-19 outbreak. Caregivers' of 1619 preschoolers recruited from 11 preschools in Zuni, Guizhou province completed the Children's Sleep Habit Questionnaire between 17th and 19th February 2020. Data were compared to a sociodemographic ally similar sample of preschoolers included in the 11 preschools in 2018. Compared to the 2018 sample, the confined preschoolers demonstrated changes in sleep patterns characterized by later bedtimes and wake times, longer nocturnal and shorter nap sleep durations, comparable 24-hour sleep duration, and fewer caregiver-reported sleep disturbances. Moreover, behavioural practices sleeping arrangement, reduced electronic device use, and regular diet) and parenting practices harmonious family atmosphere and increased parent-child communication were associated with fewer sleep disturbances in the confined sample. The present study provides the first description of the impact of prolonged home confinement during the outbreak on sleep patterns and sleep disturbances in preschoolers, as well as highlighting the importance of the link between sleep health and family factors. Given that disrupted and insufficient sleep has been linked to immune system dysfunction, our findings also have potential implications for resilience to infection in young children during the pandemic. Future studies should further explore deficient sleep as a risk factor for coronavirus infection.

A. Allan et al. [19] the study focused on the To evaluate the association between resilience, sleep quality, and health. **METHODS:** This cross-sectional study included 190 patients (Mean age = 51, SD = 15.57) recruited from the Johns Hopkins Centre for Sleep and Wellness. Patients completed a modified version of the brief resilience scale to assess characteristics of resilience and questions to assess aspects of mental health, physical health, sleep quality, and daytime functioning. **RESULTS:** Participants' average score on the BRS was 4.67 (SD = 1.32, range = 1.17-7), reflecting a high level of resilience.

There was a significant gender difference in resilience levels for men and women (Mean = 4.30, SD = 1.38), such that men reported significantly higher levels of resilience compared to women lower levels of resilience were significantly associated with higher levels of (current) fatigue and tiredness after adjusting for demographic, physical, and mental covariates. In those reporting between one and three mental health symptoms, high levels of resilience minimized

the negative influence that these symptoms had on sleep quality. This minimizing effect was no longer evident in those experiencing >3 mental health symptoms, who also reported significantly higher symptoms of fatigue despite their high resilience scores.

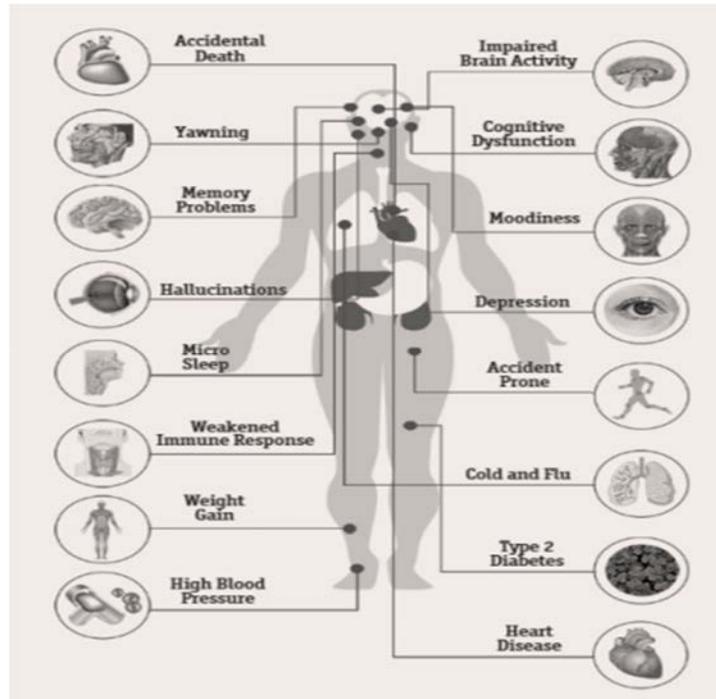
D. Gozal et al. [20] the study focused on Sleep medicine grew significantly over the last several decades. Although sleep has been explored for many centuries, our scientific and objective knowledge about sleep rose exponentially as soon as neurophysiologists recorded brain waves during wakefulness and sleep and identified various sleep states. With that in mind, the growth in the field of sleep is multifaceted, and the advancement of each aspect may have started at various time points in the history of sleep medicine. In this chapter, we will briefly review the history of sleep medicine including mythology and art, science, clinical services, and education and training.

### 3. DISCUSSION

Sleep disturbance is a frequently reported problem in recent times. A significant variation in sleep is being reported among various populations and age groups. Several studies have demonstrated that sleep disorders are prevalent in specific communities, including older adults, women, and individuals with comorbid medical, psychiatric, and neurological conditions. They can affect one's quality of life and overall well-being. Although there are about 84 qualified sleep disorders, all the sleep issues can be classified into three groups viz. people who oversleep or experience excessive daytime sleepiness, those who sleep less or suffer from insomnia, and thirdly, those whose sleep disturbs others, says Udit Goyal. Business head at Philips Health Net. This portion discusses poor sleep quality, some common sleep-related problems and disorders, and the causes and solutions to them. people in India suffer from poor sleep quality. Additionally, due to the pandemic, many people are experiencing increased levels of stress and anxiety. This has further led to a spike in the number. Scientific studies indicate that inadequate sleep has immediate detrimental impacts on hormones, exercise performance, and cognitive function. Additionally, it can lead to weight gain and heightened disease susceptibility for both adults and children. Conversely, quality sleep can aid in curbing appetite, improving physical activity, and promoting overall well-being.

#### 3.1. Sleep & Problem Disorders:

Sleep deprivation the term sleep deprivation refers to when a person gets less sleep than what is required, which is typically seven to nine hours per night for adults, and even more for Children and teens. This can lead to long-term cognitive and emotional impairments. Sleep is integral to maintaining a healthy balance in the human body, and disruptions to sleep patterns can significantly impact various physiological processes, leading to a range of problems and disorders. Adequate sleep is essential for cognitive function, emotional well-being, and overall physical health. When individuals experience disturbances in their sleep, whether due to insomnia, sleep apnoea, or other sleep disorders, it can adversely affect their mental acuity and emotional resilience. Sleep disorders are often linked to an increased risk of cardiovascular issues, metabolic disorders, and compromised immune function. Chronic sleep deprivation can contribute to problems such as obesity, diabetes, and hypertension. Furthermore, disrupted sleep can impede the body's ability to repair and regenerate, hindering muscle recovery and overall physical restoration. Addressing and managing sleep-related problems is crucial for maintaining optimal health, as a balanced and restful sleep cycle is fundamental to the intricate interplay of physiological processes within the human body. Figure 4 Illustration of the Schematic View of Parts of The Human Body.



**Figure 4: Illustration The Schematic View of Parts of The Human Body.**

The short-term risks, on the other hand, are more noticeable. Chronic sleep deprivation can increase the long-term risks of physical and mental health issues. There are different types of sleep deprivation, such as acute and chronic, which depend on the duration and frequency of reduced sleep. Acute sleep deprivation is when a person has a significant reduction in their sleep time for a short period, usually a few days or less. Chronic sleep deprivation, also referred to as insufficient sleep syndrome, is defined by the American Academy of Sleep Medicine as curtailed sleep that lasts for three months or more. Chronic sleep deficiency or insufficient sleep refers to sleep deprivation along with poor sleep that occurs due to sleep fragmentation or other disruptions.

### *3.2.Solution & Treatment:*

Paying attention to sleep hygiene is one of the most straightforward ways to set up for better sleep. Strong sleep hygiene means having both a bedroom environment and daily routines that promote consistent, uninterrupted sleep. Keeping a stable sleep schedule, making your bedroom comfortable and free of disruptions, following a relaxing pre-bed routine, and building healthy habits during the day can all contribute to ideal sleep hygiene. Every sleeper can tailor their sleep hygiene practices to suit their needs. In the process, you can harness posture habits to make it easier to sleep soundly throughout the night and wake up well-rested. Research has demonstrated that forming good habits is a central part of health. National Library of Medicine Crafting sustainable and beneficial routines makes healthy behaviours feel almost automatic, creating an ongoing process of positive reinforcement. The basic concept of sleep hygiene that your environment and habits can be optimized for better sleep applies to just about everyone, but what ideal sleep hygiene looks like can vary based on the person. For that reason, it's worth testing out different adjustments to find out what helps you sleep the most. You don't have to change everything at once; small steps can move you toward better sleep hygiene. It's also important to know that improving sleep hygiene won't always resolve sleeping problems.

People who have serious insomnia or sleep disorders - Disorders like obstructive sleep apnoea may benefit from better sleep hygiene, but other treatments are usually necessary as well.

### 3.3. Advantages Of Sleep:

Sleep allows the body to repair and rejuvenate itself. Cellular repair, tissue growth, and muscle development primarily occur during deep sleep, contributing to overall physical well-being. Adequate sleep is crucial for optimal brain function. It enhances cognitive processes such as memory consolidation, problem-solving, and creativity, ultimately boosting overall mental performance. Quality sleep plays a vital role in regulating emotions and mood. Insufficient sleep can lead to increased irritability, stress, and a higher susceptibility to mood disorders. Sleep is closely linked to immune function. Getting enough rest helps the immune system function efficiently, aiding in the body's ability to fight off infections and illnesses. Sleep influences various hormones that regulate appetite, metabolism, and glucose processing. Consistent, quality sleep is associated with a lower risk of obesity, diabetes, and other metabolic disorders. Adequate sleep is linked to a lower risk of cardiovascular diseases. It helps regulate blood pressure and reduces the likelihood of developing conditions such as hypertension and heart attacks. A well-rested mind is more alert, focused, and able to sustain attention for longer periods. This directly translates to improved productivity and efficiency in daily activities. During sleep, the brain consolidates and organizes information acquired during waking hours. This process is essential for learning and memory retention. Sleep plays a crucial role in stress management. It provides the body and mind with the necessary downtime to relax, recover, and cope with daily stressors. Research suggests that individuals who consistently get sufficient, high-quality sleep may have a longer life expectancy. The positive effects on overall health contribute to a more extended and healthier life.

## 4. CONCLUSION

The Sleep Museum's primary objective is to educate the public about the importance of sleep and its impact on overall health and well-being.

The museum aims to promote better sleep habits and hygiene, raise awareness about the consequences of sleep deprivation, reduce sleep disorders, and address the sleep-related struggles that about 60% of the population faces in some form or another. Through a range of exhibits, programs, and activities, it will explore the history, science, art, and culture of sleep, eliminate myths, and inspire curiosity and wonder among people of all ages. It will bring together many perspectives and facets of sleep and ignite a better thought process towards it. Additionally, the museum will promote research in sleep studies and provide training for medical professionals, while also encouraging the youth to learn more about sleep and develop an interest in the field. Overall, the Sleep Museum aims to foster better health and well-being by bringing about lifestyle changes through both conventional and unconventional practices, experiences, activities, and products. It will directly reach the audience and further guide them towards taking action and seeking treatment.

## REFERENCES:

- [1] A. Jothishanmugam, K. Sithara Begum, H. I. A. A. Hamid, and A. A. Mohammed, "Quality of sleep and changes in the level of blood pressure," *Int. J. Res. Pharm. Sci.*, 2020, doi: 10.26452/ijrps.v11i1.1965.
- [2] K. V. Ramanath, S. Shameer, S. Suresh, M. F. Chukwuka, A. S. Shetty, and . Bhavana, "Assessment of Sleep Quality among Consumers of Selected Medications and Substances," *J. Adv. Med. Med. Res.*, 2022, doi: 10.9734/jammr/2022/v34i1031352.

- [3] Gunathunga S.K. *et al.*, “SLEEP QUALITY AND SLEEP DISTURBING FACTORS AMONG NURSES IN A SELECTED HOSPITAL IN COLOMBO, SRI LANKA,” *Int. J. KIU*, 2022, doi: 10.37966/ijkiu2022032029.
- [4] *et al.*, “ASSOCIATION OF SLEEP PROBLEMS AND COMMON MENTAL HEALTH PROBLEMS IN ENGINEERING STUDENTS OF SGT UNIVERSITY, GURUGRAM, INDIA,” *Int. J. Adv. Res.*, 2020, doi: 10.21474/ijar01/12136.
- [5] F. Han, “Why do we sleep,” *Kexue Tongbao/Chinese Sci. Bull.*, 2018, doi: 10.1360/N972017-00801.
- [6] T. J. Sejnowski and A. Destexhe, “Why do we sleep?,” *Brain Res.*, 2000, doi: 10.1016/S0006-8993(00)03007-9.
- [7] D. Pacheco and A. Singh, “Why Do We Need Sleep□?,” *Sleep Found.*, 2022.
- [8] “Why do we sleep?,” *Nature Neuroscience*. 2000. doi: 10.1038/81735.
- [9] D. J. Dijk, “Why do we sleep so late?,” *J. Sleep Res.*, 2013, doi: 10.1111/jsr.12111.
- [10] T. J. Sejnowski and A. Destexhe, “Why do we sleep? - ScienceDirect,” *Brain Res.*, 2018.
- [11] C. E. Okechukwu, “The neurophysiologic basis of the human sleep–wake cycle and the physiopathology of the circadian clock: a narrative review,” *Egyptian Journal of Neurology, Psychiatry, and Neurosurgery*. 2022. doi: 10.1186/s41983-022-00468-8.
- [12] R. E. Frye, D. F. Rosin, A. R. Morrison, F. E. Leon-Sarmiento, and R. L. Doty, “Modulation of the ultradian human nasal cycle by sleep stage and body position,” *Arq. Neuropsiquiatr.*, 2017, doi: 10.1590/0004-282x20160178.
- [13] J. Zakri, “Stages of Sleep and Sleep Cycles,” *Tuck*, 2020.
- [14] J. M. L. Menon *et al.*, “Brain microdialysate monoamines about circadian rhythms, sleep, and sleep deprivation - A systematic review, network meta-analysis, and new primary data,” *Journal of Circadian Rhythms*. 2019. doi: 10.5334/jcr.174.
- [15] M. Bathla, A. Goyal, S. Anjum, L. Bhusri, A. H. Singh, and P. Gupta, “Assessment of quality of sleep and its association with body mass index among medical consultants working in a medical college in northern India,” *Indian J. Psychiatry*, 2020, doi: 10.4103/psychiatry.IndianJPsychiatry\_32\_19.
- [16] O. A. Rybachok, “March 17 — World Sleep Day,” *Sprav. vrača obšej Prakt. (Journal Fam. Med.)*, 2023, doi 10.33920/med-10-2302-08.
- [17] S. Foundation, “Sleep Foundation,” *A one Care Media Company*, 2023.
- [18] Z. Liu *et al.*, “Sleep of preschoolers during the coronavirus disease 2019 (COVID-19) outbreak,” *J. Sleep Res.*, 2021, doi: 10.1111/jsr.13142.
- [19] A. C. Allan *et al.*, “The promotion of sleep wellness: Resilience as a protective factor,” *Front. Sleep*, 2023, doi: 10.3389/frsle.2023.1133347.
- [20] A. Sharafkhaneh, M. Hirshkowitz, and D. Gozal, “A brief history of sleep medicine in children and adults,” in *Sleep Medicine: A Comprehensive Guide for Transitioning Pediatric to Adult Care*, 2023. doi: 10.1007/978-3-031-30010-3\_1.

## CHAPTER 13

### EMPOWERING INCLUSIVE DEMOCRACY: ENSURING EVERY VOICE IS COUNTED

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#### ABSTRACT:

Ensuring Every Voice is Counted," is a comprehensive endeavor dedicated to fostering a democratic landscape that embraces diversity, representation, and active participation. Recognizing the significance of inclusivity in the democratic process, the initiative aims to dismantle barriers, amplify marginalized voices, and create a space where every citizen's perspective is not only heard but also counted. Through outreach, education, and advocacy, it seeks to empower individuals to confidently exercise their civic duty, envisioning a future where democracy thrives on the collective wisdom and varied perspectives of its citizens. This study encapsulates the initiative's commitment to redefining democracy as a living, breathing entity that truly belongs to all. The initiative focuses on leveraging technology, advocating for diversity-supporting policies, promoting civic education, and engaging communities. Looking forward, it aims to adapt to evolving dynamics, expand globally, and contribute to the ongoing evolution of democratic practices.

#### KEYWORDS:

Mortality, Education, Empower, Democracy, Voice.

#### 1. INTRODUCTION

In February 2015, the World Health Organization (WHO) released the "Strategies Toward Ending Preventable Maternal Mortality (EPMM)," a pivotal report outlining global targets and approaches for reducing maternal mortality under the Sustainable Development Goals (SDGs). While the SDGs aim to create a sustainable world, WHO formulates strategies to enhance global standards in maternal and reproductive health.

Progress in reducing maternal and newborn deaths has been uneven worldwide, with a slowdown in recent decades. Preventable maternal mortality remains a significant global challenge [1], [2]. Recognizing the crucial role of women in families, economies, and societies, prioritizing maternal and reproductive health rights becomes imperative. Stakeholders advocate for a specific global target to reduce maternal mortality and ultimately eliminate preventable maternal deaths. The current situation in maternal health presents challenges, with women and newborns experiencing unacceptable mortality rates globally. In 2017, around 810 women died daily from preventable pregnancy-related causes, with 94% of these deaths occurring in low-resource settings [3], [4]. The maternal mortality ratio in less-developed countries decreased by just under 50%. Newborn health is closely tied to maternal reproductive health, and newborns account for 47% of all childhood deaths globally, with 2.5 million newborns dying within their first month and an additional 2.6 million being stillborn each year [5], [6].

The underlying cause of maternal mortality stems from complications arising during and after pregnancy, many of which are preventable or treatable. These complications often manifest during pregnancy or may preexist but worsen without proper management. The disproportionately high maternal death rates in certain regions underscore inequalities in

accessing quality health services and emphasize the divide between affluent and impoverished populations. Women in less developed countries face a higher lifetime risk of pregnancy-related death due to a greater number of pregnancies. However, it is crucial to recognize that most maternal deaths are preventable, as the necessary healthcare solutions are well-known. Access to high-quality care during pregnancy and childbirth is essential for all women [7], [8]. Various factors hinder women from seeking or receiving care, including poverty, geographical distance to facilities, lack of information, inadequate services, and cultural beliefs. Addressing these barriers at both the health system and societal levels is imperative for enhancing maternal health.

### *1.1. Understanding the Nonprofit Sector:*

As previously noted, nonprofits act as intermediaries between the public and government, though this simplification belies the intricate segmentation within the sector. The nonprofit industry is delineated by various factors, including type, mode of donation, and organizational location.

1. Type segmentation encompasses trusts and foundations, voluntary health organizations, human rights entities, environmental, conservation, and wildlife organizations, as well as other NGOs and charitable organizations.
2. The mode of donation categorizes the market into online and offline segments. Notably, the online market constituted the largest segment within the NGOs and charitable organizations market based on donation mode, representing 85.0% of the total in 2020.
3. Organizational location division includes domestic and international segments. In 2020, the domestic market stood as the largest segment within the NGOs and charitable organizations market based on organization location, contributing to 69.3% of the total.

The global impact of the coronavirus pandemic has left no business or industry untouched, with both positive and negative repercussions over the past two years. The nonprofit sector has experienced similar effects, witnessing a range of new and evolving trends that have influenced its dynamics. To gain a deeper understanding of users, it is crucial to comprehend the various market trends that either affect them or are shaped by user behaviors. These trends can be categorized into two main groups: technological trends and philanthropic trends.

### *1.2. Sociodemographic Variables:*

Considerable evidence suggests that men and women exhibit distinct approaches to giving, and these behaviors evolve with age and income. Women tend to engage in more substantial altruistic acts compared to men, and vice versa.

The study's author notes that charities often target older and retired households, as these demographics display a heightened inclination to donate towards social causes due to accumulated wealth in later life stages. Other sociodemographic factors influencing donors' behaviors include education levels, income levels, marital status, and a strong affiliation with religion.

#### *1.2.1. Intrinsic or Extrinsic Motivations:*

Donor behavior is significantly influenced by intrinsic motivations, manifesting in the form of altruism, empathy, or guilt. Individuals with high levels of empathic concerns tend to contribute significantly to charities, demonstrating a better understanding of beneficiaries' potential needs. Recent consumer behavior studies confirm that existential guilt positively impacts the intention towards both charity donations and the purchase of cause-related products [9], [10].

### 1.2.2. Personality Traits:

Donor personality traits play a pivotal role in influencing behavior and decision-making. Some donors are motivated by extrinsic incentives, such as distinguished awards or concerns about their image in the eyes of society, family, and friends. The interplay of intrinsic, extrinsic, and reputational motivations may vary among individuals. Personal identity emerges as a potent predictor of giving, potentially surpassing social identity, whereas social identity proves more predictive of the duration of time potential donors dedicate to charity work or volunteering.

### 1.2.3. External Factors:

In addition to socio-demographic traits, donor motivations, and personality characteristics, external factors also wield influence in donor decision-making. The attributes of the non-profit organization (NPO) are crucial considerations, encompassing the type of organization, information transparency, the NPO's brand perception and reputation, the nature of donation campaigns, the rapport with past donors, and the overall donor experience. Religious causes, social norms, peer pressure, social information, tax benefits, and charity ratings also contribute as external factors impacting donor decisions [11], [12].

### 1.2.4. Inference:

The myriad factors discussed shed light on the complexities involved in the donor decision-making process, emphasizing numerous criteria at play. Despite identifying various influencers, current literature fails to pinpoint the most critical factors determining whether a donor decides to contribute. Research explores diverse elements, ranging from donor personality to charity reputation, yet no singular factor emerges as definitive, given the inherent positives and negatives associated with each. For instance, while guilt may drive empathy development in donors, an overreliance on guilt can create a perception of minimal impact [13], [14]. Therefore, while the aforementioned criteria offer valuable insights into understanding user behaviors, the primary determinants remain elusive. Furthermore, understanding the interconnections among factors, such as age, gender, occupation, and motivations for donation, represents a gap that necessitates direct interaction with donors to bridge.

## 2. LITERATURE REVIEW

N. D. O. Bispo, [15] Studied the impact of anchor repetition on SLP students' perceptual auditory judgment of vocal deviations. Two groups were compared, one with repetition (GwR) and one without (GnR). Both groups evaluated 220 dysphonic voices. Results showed similar accuracy between deviation types for both groups, with GwR demonstrating slightly higher reliability. Accuracy was inversely related to the number of vocal dimensions, and breathiness had the highest accuracy, while strain had the lowest. Anchor repetition improved reliability but did not significantly affect the accuracy of vocal deviation classification. M. Thaheer, [16] Studied the impact of the Proportional Representation (PR) system in contemporary Sri Lankan politics, particularly its influence on minority parties like the Sri Lanka Muslim Congress (SLMC). Despite PR being favored for multi-ethnic societies, the executive presidential system is argued to diminish its efficacy, leading to unfavorable consequences for minority parties. The focus is on how the PR system has allowed Muslim communities to elect representatives but faces challenges due to the executive presidential system. N. N. Shahid, *et al.* [17] Studied the focus on stress brought on by racial tension and examined the lived experiences of 129 Black undergraduate women in primarily white institutions (PWIs) in the northeast region of the country. It looks at how difficult it is for these women to adjust to PWIs and how racial tension affects stress levels. The research presents the Agricultural Coping Theory as well as

the Strong Black Woman idea as possible moderating variables. Racial tension and stress are positively correlated, according to hierarchical regression analysis, with Agricultural coping serving as a strong moderator to lessen the influence on stress levels.

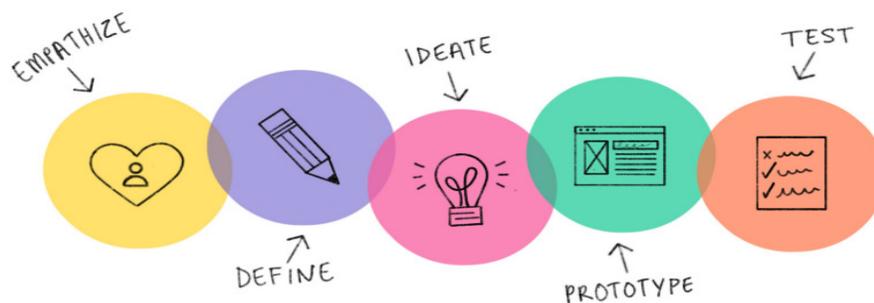
J. Young, *et al.* [5] Studied the “Every Student Succeeds Act” (ESSA) offers provisions to support STEM education, but challenges such as achievement and opportunity gaps persist. This article argues that by leveraging the autonomy granted in ESSA, states, districts, and schools can achieve access, equity, and success in STEM for traditionally underserved learners. The article reviews ESSA's STEM-related provisions and provides recommendations to enhance access, equity, and achievement in STEM content areas.

R. Ashton, [18] Studied a variety of techniques, including surveys, conversations, sketching, and writing, to concentrate on Year 6 children's experiences making the switch to high school. Youngsters brought up issues like conflicting emotions, bullying, friendships, being lost, racism, being the lone student from their elementary school, instructors, maturing, and selecting a school. Notably, academic issues were seldom brought up throughout this shift, highlighting the significance of social factors. Before starting classes, the majority of students said that they wanted more time to get to know their new school. The research highlights the important part that kids' insights may play in enhancing the transition process.

### 3. METHODOLOGY

#### 3.1. Design:

The design process followed for the project was Design thinking. Design thinking is a human-centered approach to innovation anchored in understanding customers' needs, rapid prototyping, and generating creative ideas. Design thinking brings together what is desirable from a human point of view with what is technologically feasible and economically viable. Since interaction with the client was not possible in this scenario, all the design decisions were taken with the end user in mind, by interacting with them in all the steps of the process shown in Figure 1.



**Figure 1: Illustrate the design of the current methodology.**

#### 3.2. Instrument and Sample:

##### 3.2.1. User Interviews and Online Survey:

To gain insights into user perspectives and foster empathy, personal interviews were conducted with three distinct user categories. Given limited access to a broad user base, certain trade-offs were employed. For donors and activists, four phone interviews (two per group) were conducted to delve into their experiences, pain points, needs, and behaviors. Survey

questionnaires were then crafted based on observed patterns during these interviews. To augment the survey responses, a tool named Survey Swap, which rewards respondents with credits for completing surveys, was utilized. This approach facilitated a broader range of responses from diverse locations. To comprehend the perspective of partners, interviews were held with CSR heads from two globally recognized companies an automotive manufacturer and an international bank. To uphold corporate confidentiality, specific company names will not be disclosed. Given the legal constraints governing CSR partnerships, the focus was on quality insights rather than a large quantity of responses.

1. Count of how old are you?
2. Count of when the last time donated through an online site?
3. Count of sex
4. How did you get to know about the NGO?
5. Count what device you usually use when donating.
6. What causes you to donate through online sites?
7. Count of what mode of donating works the best for you?

### 3.3. *Data Collection:*

Based on the insights gathered, user personas were crafted to enhance comprehension of the target audience, resulting in the creation of four personas: two for donors, and one each for the partner and activist. The combination of secondary and primary research revealed distinct behaviors among donors aged 25 and above. These individuals tended to be motivated by extrinsic factors, exhibited a propensity for larger donations, and contributed due to external causes. In contrast, donors under 25 were primarily driven by intrinsic motivations, seeking to experience a sense of fulfillment through their contributions. This younger demographic showed a preference for smaller, regular donations and displayed a higher likelihood of contributing their time in addition to monetary support.

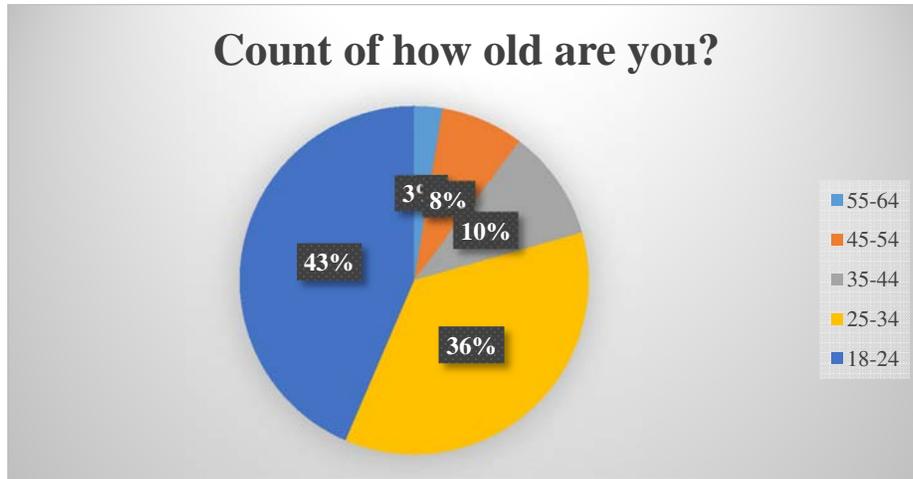
### 3.4. *Data Analysis:*

Web analytics involves gathering, reporting, and analyzing data from a website. This research method is employed to comprehend user types, behavior, conversions, device usage, and other relevant metrics. Web analytics serves as a valuable complement to qualitative research and testing. The emphasis lies in identifying metrics aligned with organizational and user goals, utilizing website data to assess the achievement or shortcomings of these goals, and leveraging insights to inform strategy and enhance the user experience. As all non-profit organizations share a common goal of contributing to social causes and fostering positive societal change, the competitive analysis of the White Ribbon Alliance did not adopt a market or industry-centric approach. Instead, the examination of competition for the project focused on a website perspective. A thorough analysis of competitors' websites was conducted to identify strengths, weaknesses, and gaps in their online presence.

## 4. RESULT AND DISCUSSION

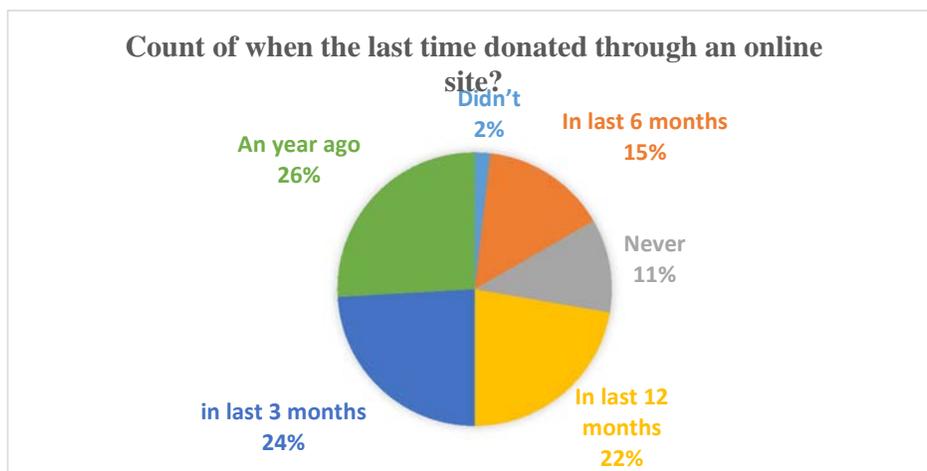
Figure 2 provides a comprehensive overview of the age distribution within a surveyed population, detailing the percentage of respondents in various age groups. Notably, the largest segment consists of individuals aged 18-24, encompassing 43.60% of the surveyed population. Following closely, the 25-34 age group represents a substantial 35.90%. Moving into the older age brackets, the 35-44 group comprises 10.30% of the respondents, while the 45-54 category

constitutes 7.70%. The smallest proportion is found in the 55-64 age group, with a representation of 2.60%. Collectively, these percentages illuminate the diverse age composition of the surveyed sample, shedding light on the distribution of age cohorts and emphasizing the prominence of younger individuals, particularly those aged 18-24 and 25-34.



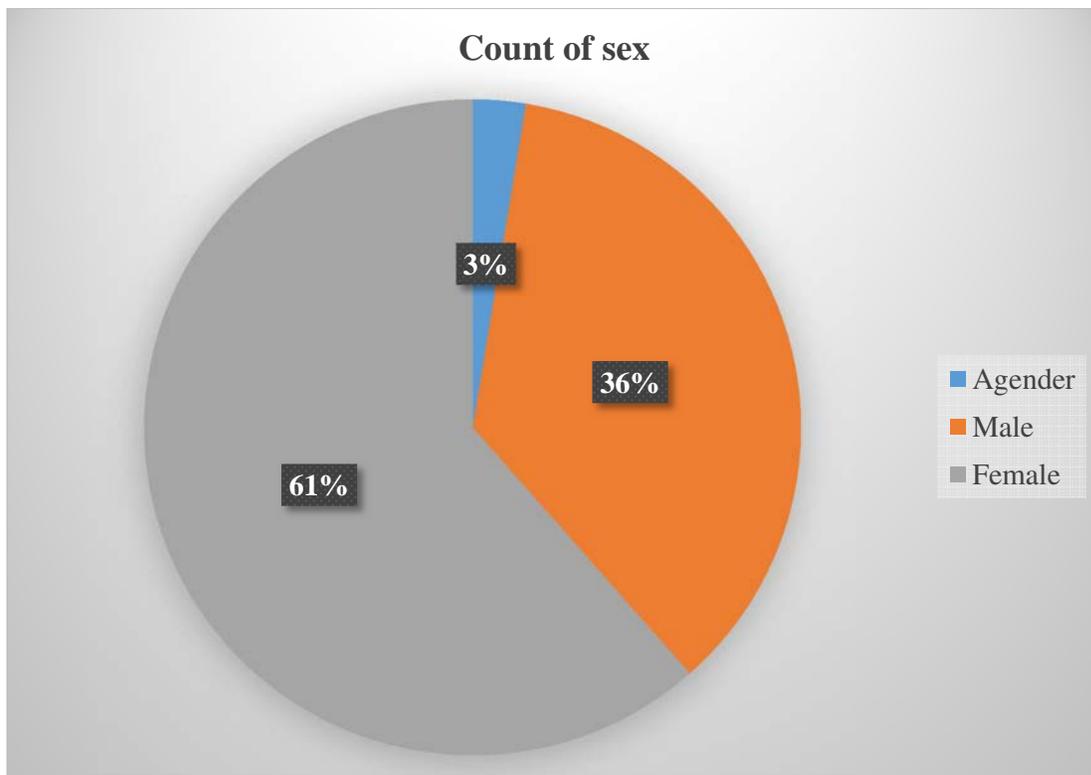
**Figure 2: Illustrate the age and percentage of participants.**

Figure 3 provides a detailed snapshot of respondents' online donation behavior, categorizing them based on the timing of their last contribution through online platforms. Remarkably, the largest group comprises individuals who made their last online donation approximately a year ago, representing 24.10% of the respondents. Following closely, 22.40% of participants have donated in the last three months, indicating a recent and active engagement with online giving. Additionally, 20.70% have contributed in the last 12 months, and 13.80% within the last six months, suggesting a diverse range of donation frequencies. A smaller percentage, 10.30%, has never donated online, while 1.70% fall into the category of respondents who haven't made any online donations. This breakdown sheds light on the temporal dynamics of online charitable contributions within the surveyed population, illustrating a spectrum of engagement from frequent recent donors to those who have never participated in online giving.



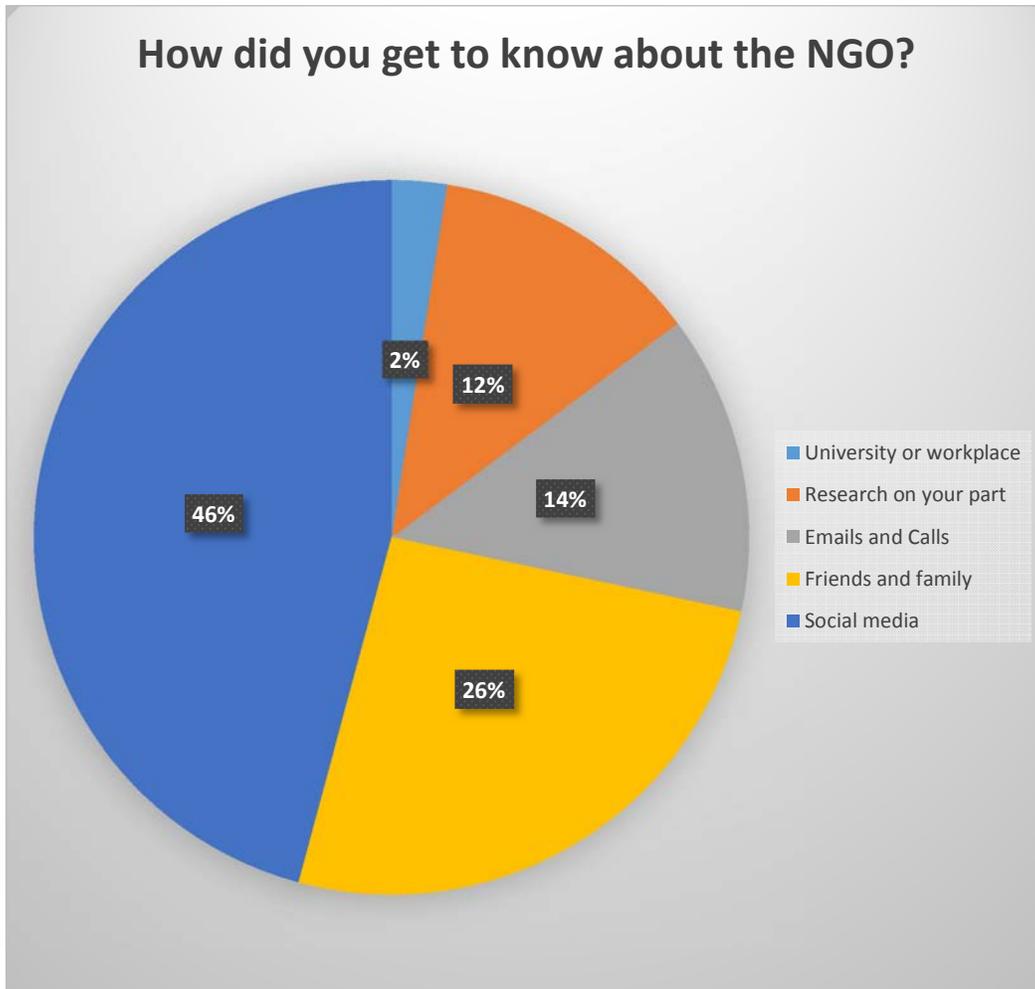
**Figure 3: Illustrate an in-depth look at respondents' online donation behavior, sorting them by the timing of their most recent contributions on digital platforms.**

The provided Figure 4 presents a breakdown of respondents based on their gender identity, offering insights into the composition of the surveyed population. Notably, the majority of participants identify as female, comprising 61.50% of the sample. Following this, the male category represents a significant portion, accounting for 35.90% of respondents. In contrast, individuals identifying as Agender constitute a smaller yet noteworthy minority, comprising 2.60% of the surveyed population. This distribution highlights the diversity in gender representation within the study, emphasizing the prominence of females, a substantial presence of males, and a smaller but notable percentage of individuals who identify as Agender. The table effectively captures the multifaceted nature of gender identity within the surveyed group.



**Figure 4: An analysis of respondents, categorizing them according to their gender identity, providing insights into the demographic makeup of the surveyed population.**

The provided Figure 5 delineates the varied channels through which respondents gained awareness of a non-governmental organization (NGO), providing a nuanced understanding of the sources that contributed to their knowledge. Notably, friends and family emerge as significant influencers, with 25.90% of respondents attributing their awareness of the NGO to recommendations from personal networks. Social media plays a pivotal role in disseminating information, as 45.90% of participants learned about the NGO through various social media platforms, highlighting the digital landscape's impact on outreach and awareness. Emails and calls, constituting 13.60%, signify the importance of direct communication channels in introducing individuals to the NGO. Additionally, 12.30% of respondents conducted independent research, showcasing the proactive role of personal investigation in NGO discovery. A smaller proportion, 2.50%, learned about the organization through their university or workplace. This comprehensive breakdown underscores the multifaceted nature of information dissemination, with social connections and online platforms playing prominent roles in fostering awareness of the NGO.

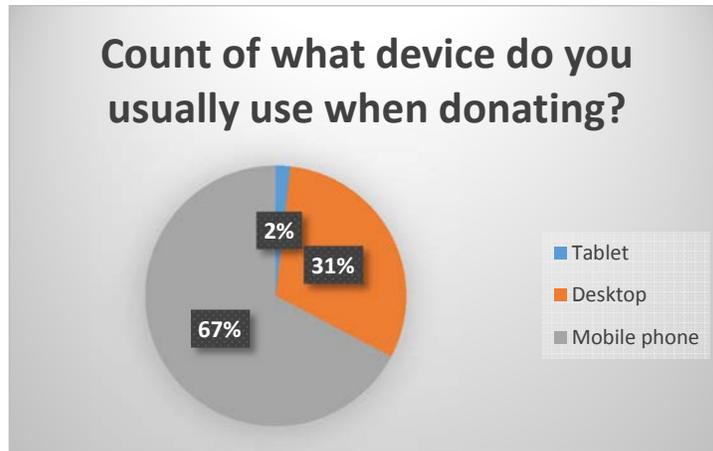


**Figure 5: Illustrate the Explains how respondents learned about an NGO, offering insights into the various sources that contributed to their awareness.**

Figure 6 provides a comprehensive overview of the primary devices used by respondents when making donations, shedding light on the prevailing trends in donation behavior. Remarkably, a substantial majority of 67.30% favor the use of mobile phones for their donation transactions, underscoring the prominence of mobile platforms in facilitating convenient and accessible giving.

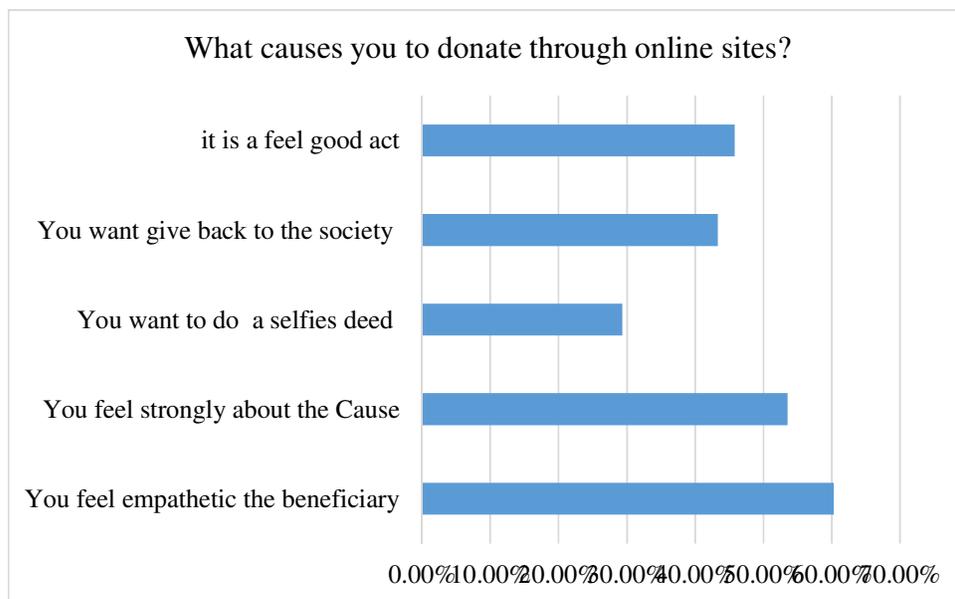
Desktop computers emerge as the second most popular choice, with 30.90% of respondents utilizing this traditional platform for their donation activities. On the other hand, a smaller but noteworthy 1.80% prefer using tablets for their donation processes.

This distribution of device preferences highlights the importance for charitable organizations and platforms to optimize their donation interfaces, ensuring a seamless and user-friendly experience across various devices, particularly mobile phones, to align with the preferences of the majority of donors.



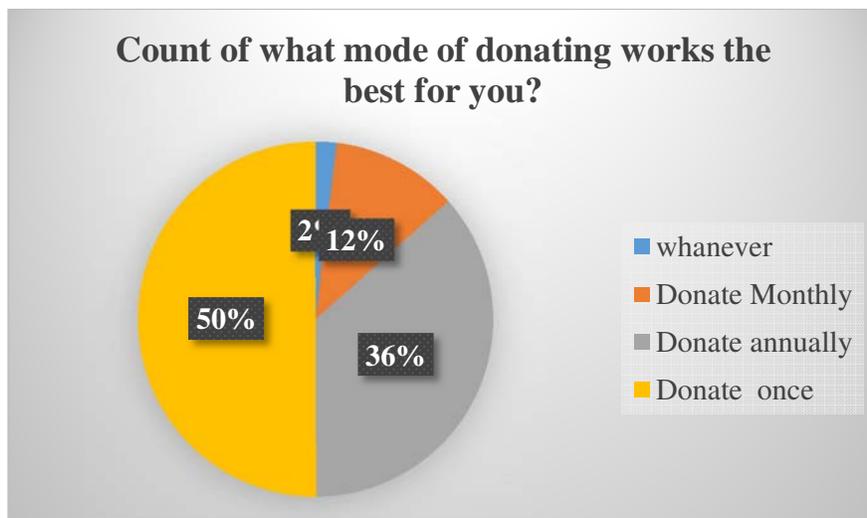
**Figure 6:** Illustrate the Provides a thorough look at the main devices respondents use for donations, offering insights into prevalent trends in donation behavior.

Figure 7 offers a comprehensive insight into the diverse motivations that drive individuals to donate through online sites. A significant 60.30% of respondents express that a deep sense of empathy towards the beneficiary is a primary factor influencing their decision to contribute. Furthermore, 53.50% indicate that a strong personal connection to the cause is a compelling motivator for their online donations. Altruism is reflected in the 29.30% of respondents who are driven by a desire to perform a selfless deed. Additionally, 43.30% are motivated by a sense of wanting to give back to society, highlighting a commitment to contributing to broader social causes. Moreover, 46% of respondents emphasize the importance of the feel-good aspect, suggesting that the emotional satisfaction derived from the act of giving plays a pivotal role in their decision to donate online. These nuanced motivations underscore the complexity of donor behavior and provide valuable insights for organizations seeking to tailor their outreach and messaging strategies to resonate with the varied reasons that prompt individuals to contribute online.



**Figure 7:** Illustrate the provides a comprehensive understanding of the varied motivations that compel individuals to donate through online platforms.

Figure 8 elucidates the diverse donation preferences among respondents, offering a nuanced perspective on the frequency of giving that works best for them. A notable 47.30% of individuals express a preference for one-time donations, indicating a tendency towards event-specific or ad-hoc giving. On the other hand, 34.50% of respondents lean towards an annual donation model, reflecting a less frequent but more planned and substantial commitment to giving. Additionally, 10.90% favor making monthly donations, showcasing a preference for regular and recurring contributions. A smaller proportion, 1.80%, prefers to contribute whenever they choose, without adhering to a specific schedule. These findings underline the varied donor behaviors and highlight the importance for charitable organizations to tailor their fundraising strategies to accommodate the diverse preferences of their donor base, whether it be occasional, monthly, or annual contributions.



**Figure 8: Illustrate the clarifies the varied donation preferences among respondents, providing a nuanced view of the frequency of giving that suits them best.**

#### 4.1.Key Findings:

1. Differentiating factors motivate older donors (extrinsic causes) versus younger donors (intrinsic causes).
2. The trust that donors place in an organization is directly linked to the usability and aesthetics of its website.
3. Acquiring new donors is significantly driven by social proof and word of mouth.
4. Donors find the ability to track the impact of their donation more appealing than the act of tracking the impact itself.
5. Stricter Corporate Social Responsibility (CSR) laws may diminish the effectiveness of collaborations between brands and NGOs.
6. Users are initially attracted by the cause and beneficiaries but are ultimately converted by the reputation of the organization.
7. Collaborations between non-profit organizations (NPOs) have the potential to enhance brand-NPO partnerships.
8. Similar to consumers, donors approach their contributions cautiously, mindful of the investment they are making.

9. Offering alternative ways to support a cause not only boosts user engagement but also establishes the credibility of an organization.

#### 4.2. Future steps:

As the website is released to the audience, frequent and consistent usability testing needs to be done to keep improving the site for the users. Additionally, the site always needs to be updated. As the users get used to the new website certain advanced features like personalization, interaction, and user-generated content can be introduced. Further, more sophisticated interactions can be introduced on the site to enhance user engagement on the site. Apart from improvement on the website to further enlarge the impact and reach of the organization following steps can be taken

1. A dedicated social media strategy to meet the users where they are at.
2. Implementing SEO strategy and PPC keywords to enhance the searchability of the website.
3. More collaboration with other NGOs to increase the brand reach in all the locations of work.

## 5. CONCLUSION

The nonprofit industry is at a crucial point of experiencing a lot of changes due to various reasons. Apart from covid 19 impacting the industry other factors like CSR laws, users changing interaction with e-commerce and other types of websites, and the increasing empathy in the Gen Z user base, all these factors influence the future of the industry. Organizations like White Ribbon Alliance need to constantly update themselves with social changes and also need to keep their assets updated. While this project concluded by improving the user flow of the website, introducing personalization at a small level, and introducing a storyline to the website, with further user research the website and other experiences attached to it can be improved. Through its multifaceted approach of dismantling barriers, fostering dialogue, and amplifying marginalized voices, the initiative contributes to the creation of a vibrant and representative democratic tapestry.

As we navigate the complex landscape of societal changes, the commitment to inclusivity remains paramount. This initiative, with its dedication to equity, representation, and active citizenry, serves as a testament to the belief that democracy is not a static institution but a dynamic force shaped by the collective contributions of its diverse citizenry.

The journey toward an inclusive democracy is ongoing, and as we move forward, the lessons learned and the strides made by this initiative provide a roadmap for building a future where every voice is not only acknowledged but counted in shaping the destiny of our communities and societies.

#### REFERENCES:

- [1] H. Payne, "Advanced prostate cancer: Every Voice Matters," *Future Oncology*, vol. 11, no. 12. pp. 1711–1713, 2015. doi: 10.2217/fon.15.88.
- [2] T. Driver, "Every Voice Heard," *Reading Teacher*, vol. 70, no. 6. pp. 747–748, May 2017. doi: 10.1002/trtr.1571.
- [3] B. Matthey, "Every Voice Counts!," *NASN school nurse (Print)*, vol. 32, no. 1. pp. 12–13, Jan. 29, 2017. doi: 10.1177/1942602X16682050.

- [4] K. M. Dahlin, P. L. Zarnetske, and S. Record, “Hear every voice – working groups that work,” *Front. Ecol. Environ.*, vol. 17, no. 9, pp. 493–494, Nov. 2019, doi: 10.1002/fee.2115.
- [5] J. Young, M. M. Capraro, R. Capraro, and M. Cason, “Every student can’t succeed if every voice is not heard: Equity perspectives from STEM educators,” *Teach. Coll. Rec.*, vol. 120, no. 13, 2018, doi: 10.1177/016146811812001302.
- [6] C. Miller, “Link to the Library of Congress: ‘Lift Every Voice and Sing,’” *Music Educators Journal*, vol. 109, no. 1, pp. 18–21, 2022. doi: 10.1177/00274321221115652.
- [7] M. B. L. Anderson, “Lift every voice and lead: African American leaders’ perceptions of K-12 education reform,” *Frederick D. Patterson Res. Institute, UNCF*, 2017.
- [8] N. E. Weiss, “Lifting every voice throughout the nation: Establishing imls’s grants program for museums of african american history and culture,” *Public Historian*, vol. 40, no. 3, pp. 142–162, 2018. doi: 10.1525/tph.2018.40.3.142.
- [9] W. R. Williams, “Every Voice Matters: Spoken Word Poetry in and outside of School,” *English J.*, vol. 4, pp. 77–82, 2015.
- [10] A. L. Jones, “Lift Every Voice and Swing: Black Musicians and Religious Culture in the Jazz Century by Vaughn A. Booker,” *Am. Relig.*, vol. 3, no. 2, pp. 131–134, 2022, doi: 10.2979/amerreli.3.2.14.
- [11] M. James, K. Mihalyi, and A. Leimanis, “The Syracuse Community Choir: Where Every Voice Matters,” *Choral J.*, vol. 59, no. 3, pp. 71–79, 2018.
- [12] E. A. Hopkins, “Classroom conditions to secure enjoyment and achievement: The pupils’ voice. listening to the voice of every child matters,” *Educ. 3-13*, vol. 36, no. 4, pp. 393–401, 2008, doi: 10.1080/03004270801969386.
- [13] H. Q. Jaleel, J. J. Stephan, and S. A. Naji, “Gender Identification from Speech Recognition Using Machine Learning Techniques and Convolutional Neural Networks,” *Webology*, vol. 19, no. 1, pp. 1666–1688, 2022, doi: 10.14704/web/v19i1/web19112.
- [14] P. Ganey, “Every voice matters: the bottom line on employee and physician engagement,” *Perform. insights*, 2013.
- [15] N. D. O. Bispo, R. Yamasaki, M. M. P. Padovani, and M. Behlau, “Repetition of anchor stimuli and nature of vocal samples in the perceptual auditory judgment performed by speech-language pathology students,” *CODAS*, vol. 34, no. 4, 2022, doi: 10.1590/2317-1782/20212021064.
- [16] M. Thaheer, “Why the Proportional Representation System Fails to Promote Minority Interests?,” *PCD J.*, 2017, doi: 10.22146/pcd.25722.
- [17] N. N. Shahid, T. Nelson, and E. V. Cardemil, “Lift Every Voice: Exploring the Stressors and Coping Mechanisms of Black College Women Attending Predominantly White Institutions,” *J. Black Psychol.*, vol. 44, no. 1, pp. 3–24, 2018, doi: 10.1177/0095798417732415.
- [18] R. Ashton, “Improving the transfer to secondary school: How every child’s voice can matter,” *Support Learn.*, vol. 23, no. 4, pp. 176–182, 2008, doi: 10.1111/j.1467-9604.2008.00391.x.