

Elderlyeaze: A Friendly Tour for Elderly

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Abstract– This research paper explores the transformative impact of Elderlyeaze, a pioneering website dedicated to revolutionising elder care services. Elderlyeaze offers a comprehensive range of essential tailored services including caregiver assistance, ambulance services, online and offline doctor appointments, medicine delivery, second opinion, nearby travel arrangements, yoga and meditation guidance, AI based avatars to assist and entertain the lonely elders, connecting with peer groups and maintaining virtual reunions etc. By seamlessly integrating convenience, community, and wellness into its platform, the website addresses the challenges faced in accessing comprehensive care and support. Through comprehensive surveys done on a sample population the sample prototype has proved the significance of Elderlyeaze in promoting independence, fostering connections, and creating meaningful experiences for elderly individuals and their caregivers.

Keywords- Elder Care, Comprehensive Support, Wellness Integration, Caregiver Assistance, Ambulance Services, Doctor Appointments, AI avatar.

I. INTRODUCTION

In an era defined by busy schedules and relentless demands, the desire to explore and connect with like-minded individuals remains a constant aspiration for many, irrespective of age. However, the complexities of services often pose significant challenges for elderly individuals and their caregivers, hindering their ability to live fulfilling and independent lives. In response to these challenges, Elderlyeaze emerges as a beacon of innovation, offering a comprehensive solution to address the diverse needs of the elderly population.

The primary objective of Elderlyeaze is to bridge the gap between individual care and collective support, empowering elderly individuals to maintain independence and wellness integration through its centralised platform.

Additionally, Elderlyeaze offers personalised recommendations and comprehensive packages tailored to the unique needs and preferences of its users, ensuring that every aspect of their journey is thoughtfully planned and executed to perfection. By combining the convenience of modern technology with the warmth of human connection, Elderlyeaze empowers users to embark on unforgettable journeys, forge meaningful relationships, and create lasting memories.

This research paper aims to explore the transformative impact of Elderlyeaze in revolutionising elder care services, promoting independence, and enhancing the overall well-being and quality of life and creating lots of service oriented jobs thereby fostering revenue generation.

Elderlyeaze contributes to the mental and emotional wellness of its community members. Elderlyeaze's provision of personalised recommendations and tailored care packages reflects this understanding, ensuring that each user's unique needs and preferences are addressed. This personalised approach enhances user satisfaction and engagement with the platform.

II. LITERATURE SURVEY

Elderly care services have long been challenged by the complexities of meeting the diverse needs of ageing populations. Smith et al. emphasise these challenges, highlighting the necessity for innovative solutions[1] to bridge the gap between individualised care and collective support. Technology's role in enhancing elderly care has been a subject of increasing interest, as noted by Chen et al. [2]. Online platforms and mobile applications offer avenues for improving access to essential services and overall well-being for the elderly. Community engagement[3] plays a vital role in promoting the well-being of elderly individuals, as highlighted by Li et al. By fostering connections and social interactions among users. Personalised care is increasingly recognized as essential for enhancing user experience in elderly care services, as discussed by Wang et al[4]. Integrating wellness initiatives into elderly care services is another emerging trend[5], as noted by Johnson et al. By offering meditation guidance and access to exercise videos. Centralised platforms have shown promise in improving care coordination[6] in elderly care services, according to Garcia et al.

Elderlyeaze's centralised hub streamlines communication and facilitates coordination among caregivers, healthcare providers, and other stakeholders. This streamlined approach enhances the efficiency and effectiveness of care delivery, ultimately benefiting elderly individuals and their caregivers.

III. PROPOSED SOLUTION

ElderlyEaze is a comprehensive web platform designed to address the diverse needs of seniors, providing a wide range of essential services which are described in the subsequent section.

The website opens up with the options that are Services, Recreation, Blogs, Newsletter.

There are several services provided where few of them are connected to existing APIs and others are integrated into the platform. There is a significant service called "AI assistant" which provides, apart from geriatric care, a myriad of opportunities for people who are away or lost their near ones. The recreation service offers watching movies, listening to music, caregiver assistance to visit religious and social places, banks etc. The elders can also write their daily blogs and thus communicate with the rest of the world on their favourite domains. The Newsletter provides the complete half-yearly report and the database of people registered with the website, their activities, feedback and therefore supports the rating of the website. It also keeps the log of version control, revenue generation and information on updation and maintenance history.

A. Methodology

The development and functioning of Elderlyeaze, are guided by a systematic methodology that ensures user-centricity, efficiency, and effectiveness.

The methodology outlined below delineates the key steps involved in the operation of the platform. The stakeholders of the website, for example, elderly individuals or their caregivers, medical fraternity including medical shop owners and ambulance services, NGOs, old age homes etc. begin their journey on Elderlyeaze by completing an instances, user profiles which includes medical history, personal choices, lifestyle details and family information with a government ID verification for security reasons.

Upon registration, users gain access to a diverse range of essential services tailored to meet the specific needs of elderly individuals and caregivers. Users navigate through the platform to explore available services like online video based doctor appointment or in-person visit to the doctor and their travel arrangements, caregiver assistance, locating nearby medical shops and online medicine delivery, book appointment for expert opinion from specialised doctors or alternate remedies through Ayurveda, Unani etc., booking pathologists for medical tests or physiotherapy services.

The most significant feature of the website is the integration of AI technology to have a personalised choice of living their lives as shown in Fig.1.

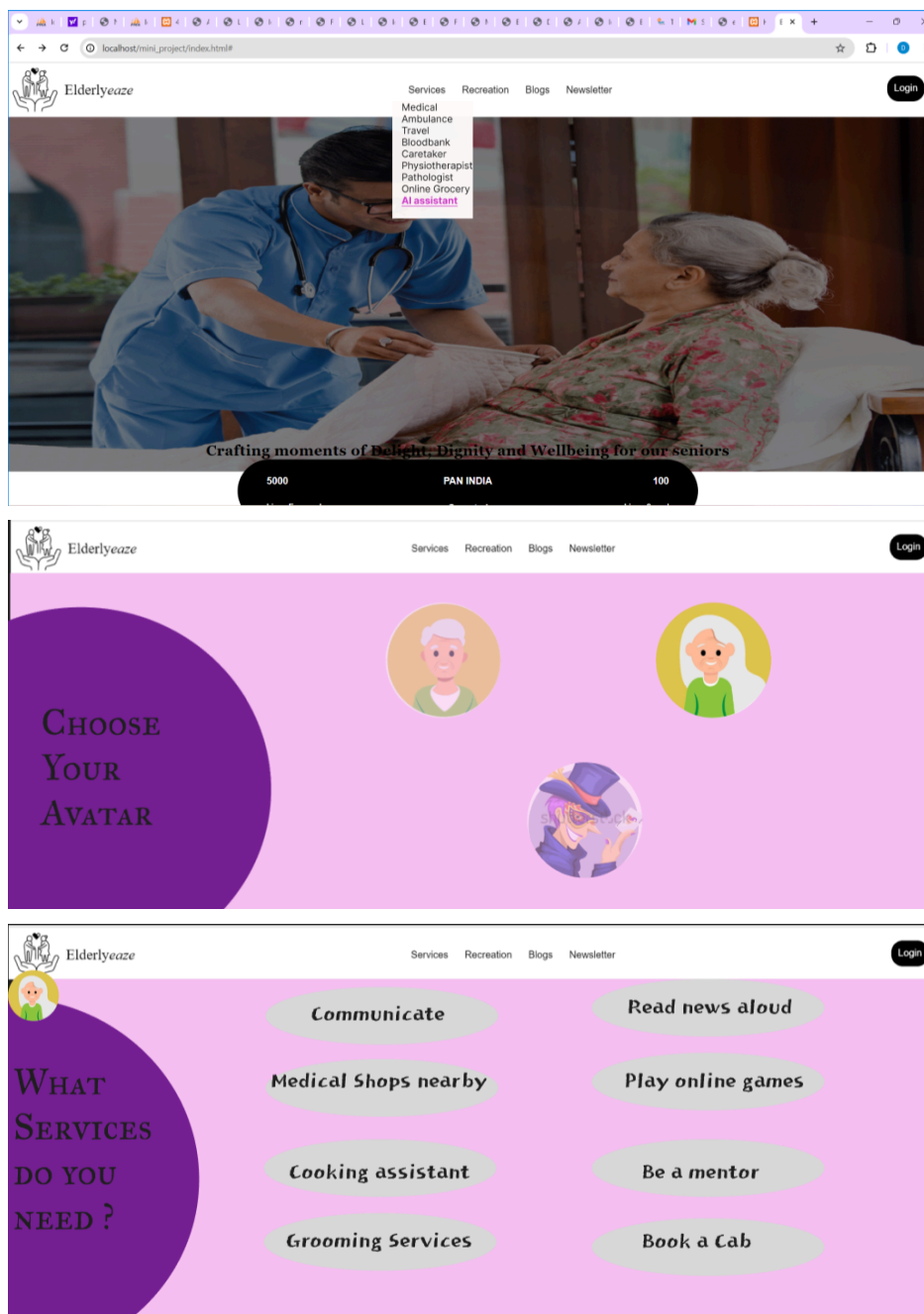


Fig.1 Choose AI avatar

In this service the user can choose their favourite avatar who will act as a virtual assistant throughout the process. The AI assistant will also ask what services they need and respond accordingly. The users can also communicate with the avatar to either get guidance or simply chat or talk for companionship. This feature helps users with mental health issues, Alzheimer's etc. The avatar can also read news aloud, guide as an assistant for many activities including cooking, writing, playing music and exercise. The users can also engage themselves by playing online games with the avatar or choose to become a mentor to share success stories and strategies for medical or daily life related issues. The avatars also provide grooming services, helps in buying or selling online grocery, artefacts or handmade products.

Figure 2 shows the home page of the Web App which features the overview of the purpose, functionalities and offerings. There is a descriptive section which serves as the primary introduction to the platform, providing users with clear understanding of its scope and utility.

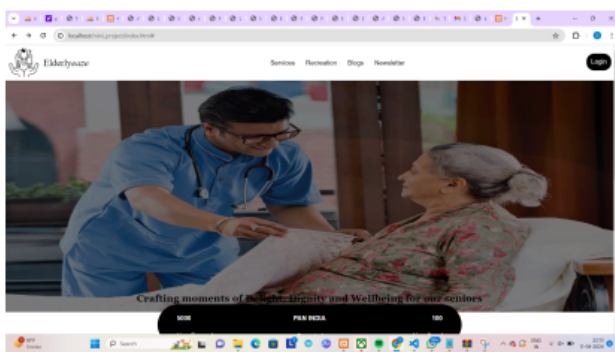


Fig.2 Home Page

Figure 3 illustrates the implementation of the "Make Appointment with Doctors" feature, acting as a centralised hub for scheduling medical appointments. Users can effortlessly engage with detailed information about each doctor, including specialisation, availability, and clinic location, by clicking the "View Details" button. Moreover, the page dynamically updates to display real-time information on available appointment slots, ensuring users have access to the latest booking data.

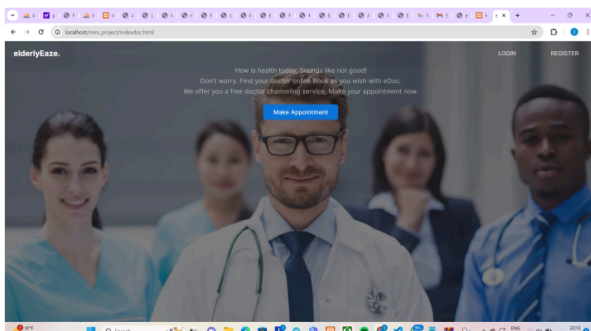


Fig.3 Doctors Appointment Page

Figure 4 showcases the implementation of the "Travel with Us" feature, specifically focusing on cab booking services. Serving as a repository of available cab services, the "Travel with Us" page enables users to browse through various options and select the most suitable one for their needs. Each cab listing offers comprehensive details such as vehicle type, pricing, and pickup/drop-off locations. Users can filter content based on their specific preferences, ensuring a tailored booking experience.

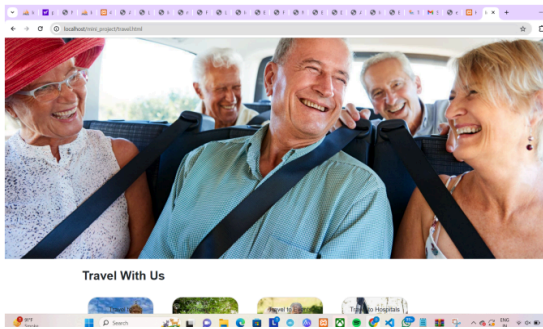


Fig.4 Travel page

Figure 5 represents the implementation of the "Book Caretaker or Caregiver" feature, catering to the essential need for caregiver assistance. This feature provides users with detailed information about available caretakers or caregivers, including qualifications, experience, and availability. Users can review profiles and select the most suitable caregiver for their requirements. The page facilitates a seamless booking process, allowing users to initiate reservations with ease and confidence.

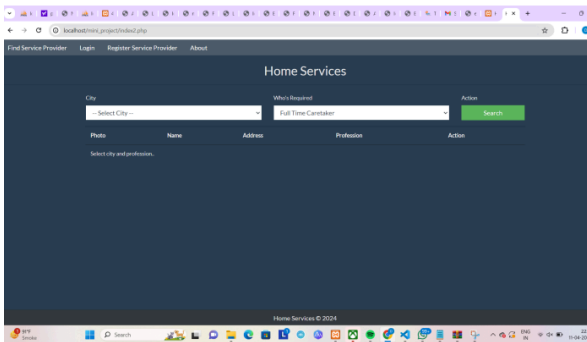


Fig.5 Caretaker Booking page

A survey of elderly people between 60-90 years was conducted on the prototype version of the website and the response and usability of the website is listed in the following table.

Table 1 Summary of Customer feedback on Elderlyeaze for a sample size of 100 individuals on their favourite features.

Age group	Expert Opinion	Appointment Reminders	Scheduling Appointments (online/offline)	Visit to religious or social/tourist places.	Revenue Generation for elders	AI assistant	Geriatric care for special needs.
60-70	All	All	Around 30%	Around 30%	30%	95%	Play Online games, watch videos etc.
70-80	All	All	70%	70%	30%	95%	Communicating with avatar and assistance in yoga nad meditation.
80-90	All	All	80%	80%	Nil	95%	Procuring Walking stick, assistance in Cataract operation etc.

IV. CONCLUSION

Through its integrated platform, Elderlyeaze aims to enhance the quality of life and promote independence among elderly individuals, while also facilitating social connections and meaningful experiences. This research paper underscores the significance of Elderlyeaze in revolutionising elder care services and promoting holistic well-being in the ageing population.

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