

“Your Home Our Care” Cross Platform App Using Hybrid Application Development

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Abstract:

Your Home Our Care" is a cross-platform application developed using hybrid application development methodologies to provide accessible and integrated home care services. With the increasing demand for personalized healthcare and home support services, this application bridges the gap between service providers and clients by offering an intuitive and scalable solution. The app simplifies the hiring process by offering a wide range of service providers, allowing families to choose based on reviews, qualifications, and cultural fit. By ensuring transparency, security, and affordability, it addresses key pain points, making home care services more accessible and reliable for everyone. Ultimately, the app enhances the quality of home care while fostering trust and mutual respect between families and caregivers.

Keywords — Cross-Platform Application, Hybrid Development, Healthcare, Flutter, React Native, Home Care Services, Home care, personal care, remote assistance, hybrid application, cross-platform, mobile app, healthcare app, smart home services

I. INTRODUCTION

Traditionally in our country where to recruit a person for our home care like maid, caretaker, housecleaner, gardener etc. They were not able to get the proper person or helper to fulfill their needs. Even though if they get a helper by asking other peoples like neighbours, friends and families they won't get a proper affordable, trusted and Secured concerns. In the existing system there is shortages of trained care givers families may struggle to find reliable care giver and high cost of services so they may not able afford it. And the main issues in India is cultural and linguistic barrier like the may not always understand or respect the culture practices and languages of the families they server this can lead

to misunderstanding and desertification to do home care services. To overcome these above issues, we have come through “Your Home Our Care”. This solution aims to provide trained, reliable, and culturally aware caregivers who understand the specific needs and practices of each family. By ensuring affordability, trustworthiness, and sensitivity to cultural and linguistic differences, "Your Home Our Care" seeks to make home care services more accessible and satisfactory for all.

II. LITERATURE REVIEW

1. Mobile App for the Promotion of Home services Study by Johny Pretell Cruzado and David Israel :

Home services advertising faces challenges due to high costs and lack of technological training. This

research aimed to develop and implement a mobile application that can advertise home services effectively. Using XP methodology, ten cases were used to demonstrate the app's ability to advertise household services. The application's ability to advertise household services is confirmed through its ability to display large numbers of people and provide real-time job opportunities.

2. A Support System for Home Care Service Based on Multi-agent System, Study by Itabashi.G and kato.Y:

The paper proposes a multi-agent system for a home care service in Japan, focusing on engineering support. The system allows for autonomous care schedule decisions among agents, allowing clients and helpers to confirm schedules using PDAs. This system is expected to reduce the total cost of a home care service, making it more accessible and efficient for elderly individuals.

3. Home Service Management System, Study by Anusha M.G and Kiran Kumar M.N:

The Home Service Management System aims to provide a convenient and efficient solution for customers seeking maintenance and repair services for their home appliances. This system offers a variety of services, including saloons, plumbers, and repair personnel, all conveniently located at the user's doorstep. The system focuses on enhancing user experience by offering world-class electronic appliance maintenance services, with well-equipped service careers and fully trained servicers. It offers 24/7, expert advice, and efficient, fair price services.

4. Online Household Services, Study by Adarsh Khati:

Online Home Services are digital marketplaces that provide quick access to various home facilities worldwide. The demand for these services is increasing due to their accessibility and convenience. These platforms link consumers with service

providers and manage payment and billing transactions, making the payment process easier. The rise in advertising and marketing campaigns contributes to market growth. Online on-demand home services allow customers to access services quickly and cost-effectively, saving time and money. The global online on-demand home services market can be segmented into type, services, and geography.

5. Home Service Provider, Study by Aravindhana.K and Anusa T.S:

The on-demand home service system is a valuable resource for individuals seeking home services such as plumbing, electronic repair, gas range repairing, RO servicing, and electrical maintenance. This system is particularly beneficial for those relocating and looking to save time and solve problems efficiently. The system consists of two users: home service providers and users. Home service providers can register on the website by mentioning their role and providing their contact number. Users can view an inventory of home services and contact them based on their needs. The system offers various categories and services, allowing users to easily access necessary home services without difficulty or delay.

III. METHODOLOGY

"Your Home Our Care" offers a comprehensive solution to the challenges of home care in India by addressing several key issues:

1. **Verified and Trained Helpers:** The app provides access to the network of thoroughly and trained home care professionals each helper undergoes a background check and training program to ensure high standard skill and professionalism.
2. **Affordable pricing:** To tackle the high cost of home care services, "Your Home Our Care" offers transparent pricing models and a range of service

packages tailored to different budgets. This ensures that families can find affordable solutions without compromising on quality.

3. **Cultural and Linguistic Compatibility:** The app allows users to match with helpers who share or are familiar with their cultural and linguistic background. This feature minimizes misunderstandings and ensures that the helper is respectful and understanding of the family’s cultural practices and language preferences.

4. **Customizable Service Plans:** Families can customize their service plans based on specific needs.

5. **Feedback and Ratings System:** The app includes a feedback and rating system where families can review their experiences with helpers.

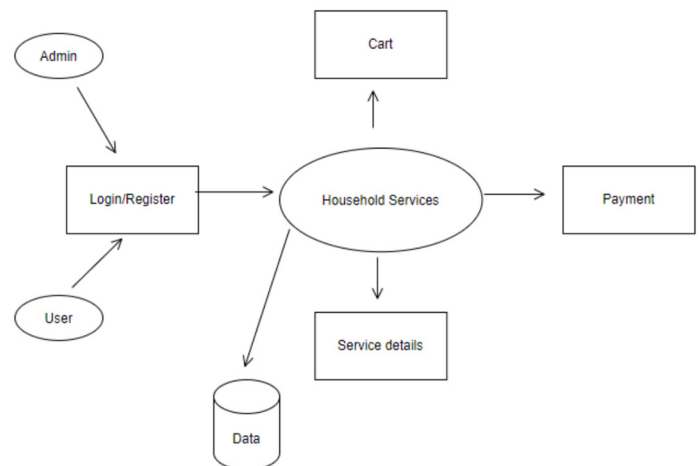
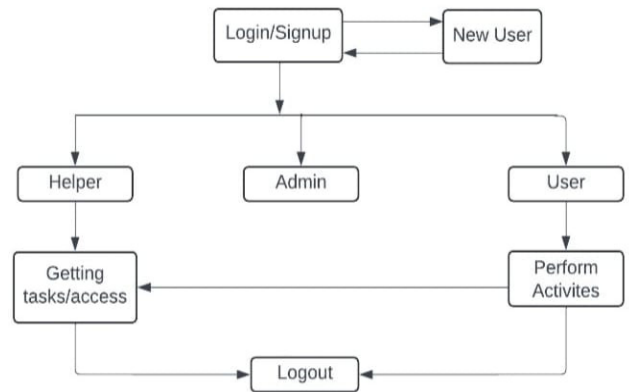
The development of the "Your Home Our Care" app follows a structured methodology designed to address the existing challenges in the home care services sector, ensuring reliable, affordable, and culturally sensitive service providers.

In this module we include helper, admin, and user

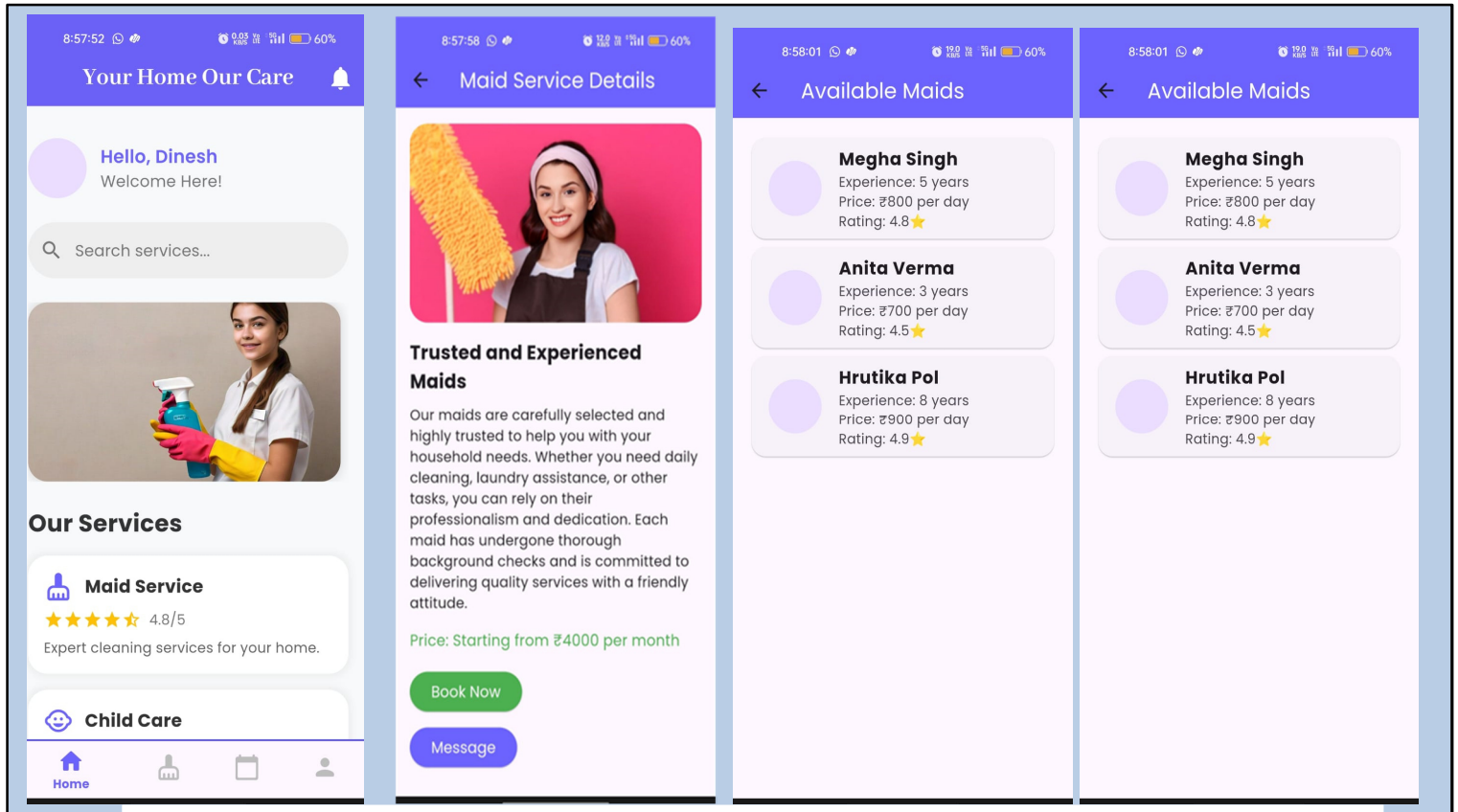
- ❖ **Helper:** We provide a helper login page in that we assign them tasks and receive feedback.
- ❖ **Admin:** In this module we handle the problem of the helper and user and assign tasks from to helpers and receive task from the users.
- ❖ **User:** In this we provide them the platform where user can check the helper status and they can book and choice them.

I. FIGURES AND IMPLEMENTATION

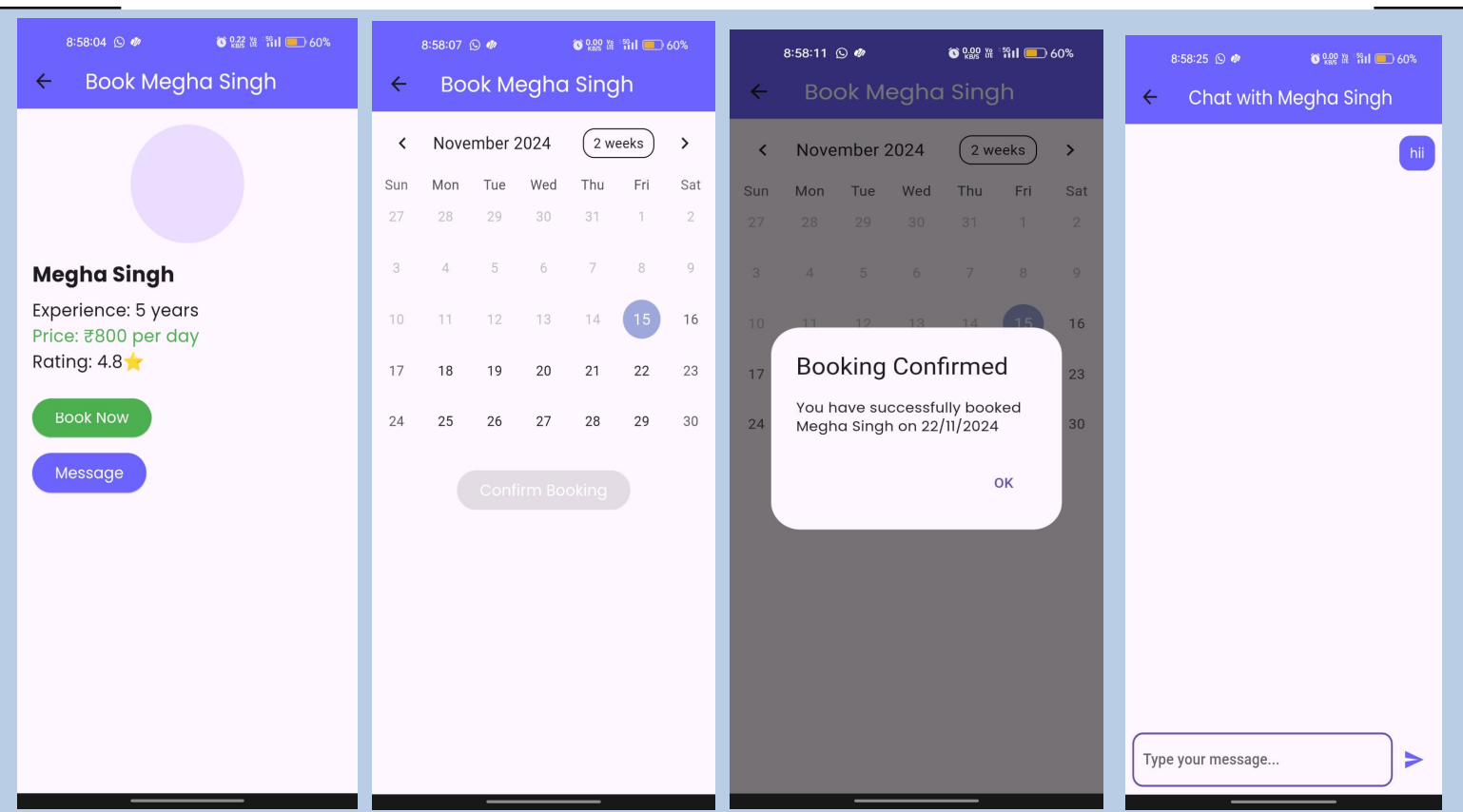
Fig 4.1 Architectural Diagram



Implementation Diagram I: Service Page, Service Detail Page, Available Maid List Page



Implementation Diagram II: Maid Profile Page, Scheduling Page with Integrated Chatbot



IV. CONCLUSION

A significant issue that many face is the cultural and linguistic barriers between service providers and families. These barriers often result in misunderstandings, dissatisfaction, and poor service outcomes. "Your Home Our Care" bridges these gaps by providing a platform that offers trained and verified caregivers who are not only affordable but also sensitive to the cultural and linguistic needs of the families they serve.

"Your Home Our Care" effectively addresses the common challenges in India's home care industry by providing reliable, affordable, and culturally sensitive solutions. Through verified helpers, customizable service plans, and a focus on trust and security, the app ensures that families receive high-quality care tailored to their needs, overcoming linguistic and cultural barriers while making home care accessible for all.

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