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Finder App (Find Labour)

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ABSTRACT: The Finder App is a revolutionary on-demand service platform designed to connect users with top-quality professionals for a wide range of home and personal services. Finder App aims to simplify access to trusted and reliable service providers for urban lifestyles. The app serves as a one-stop solution for various services, including home cleaning, beauty treatments, plumbing, electrical repairs, construction work and many more. Finder App provides an intuitive user experience, featuring seamless navigation, secure payment options, real-time service tracking, and personalized recommendations based on user preferences. Service providers undergo a rigorous verification process to ensure professionalism, quality, and safety. The app also integrates customer reviews and ratings to help users make informed decisions. With its smart scheduling system, users can book services at their convenience, ensuring time efficiency and hassle-free management. Finder App aspires to redefine convenience by bridging the gap between skilled professionals and those in need of their expertise. By leveraging advanced technology and a user-centric approach, the app seeks to become the go-to platform for urban dwellers seeking high-quality, reliable services at their fingertips.

I. INTRODUCTION

Finder App is a leading platform that connects customers with skilled professionals for a wide range of home services. Known for its seamless user experience and quality service providers, the "Finder App", designed to enhance accessibility and efficiency for both users and professionals. The Finder App simplifies the process of locating trusted service providers in various categories, including home cleaning, beauty services, appliance repair, and more. The app provides a user-friendly interface, allowing customers to browse, compare, and book services with ease. With advanced features like real-time tracking, detailed professional profiles, and customer reviews, it ensures transparency and reliability. The Finder App also benefits service providers by helping them reach a wider audience, manage their schedules, and grow their businesses. Whether you're looking to revamp your home or avail of grooming services at your doorstep, the Finder App is a one-stop solution for all your needs. Finder is your go-to app for discovering and connecting with top-rated urban service providers near you. From home maintenance and cleaning to personal care, fitness, and beyond, Finder brings trusted professionals right to your fingertips. With user reviews, real-time availability, and seamless booking, Finder ensures a hassle-free experience tailored to your preferences. No more guesswork – just reliable services when you need them most. Finder App aims to simplify access to professional services while empowering service providers with opportunities to earn and grow their businesses.

A. Personalized Service Options:

The Finder App leverages advanced algorithms and user insights to provide highly personalized service recommendations. Based on your location, past preferences, and specific needs, the app curates a list of services and professionals tailored just for you. For instance, if you're searching for a beautician or a plumber, the app displays nearby professionals with expertise in those categories. This personalized approach saves you time and ensures that you connect with the most relevant service providers, offering a seamless experience from start to finish.

B. Easy Bookings:

The app simplifies the process of scheduling services by providing an intuitive booking interface. Users can select the type of service they need, choose a convenient date and time, and book the service in just a few clicks. Whether it's a one-time request for deep cleaning or a recurring need like weekly home maintenance, the app is designed to



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accommodate your schedule. Additionally, the app provides automated reminders and updates, ensuring you never miss a service appointment.

C. Ratings and Reviews

To maintain transparency and help users make informed decisions, the app incorporates a robust ratings and reviews system. After availing of a service, customers can rate their experience and leave detailed feedback about the professional's skills, punctuality, and overall service quality. These reviews are visible to all users, allowing them to compare and choose the best professional for their needs. This system not only builds trust but also motivates service providers to consistently deliver highquality work.

D. Professional vetting

One of the app's standout features is its commitment to quality and safety. Urban Company ensures that only highly qualified and verified professionals are listed on the platform. Every service provider undergoes a thorough screening process, which includes background checks, skill assessments, and training programs. This vetting process guarantees that customers receive top-notch services from trustworthy and skilled professionals. It also gives users peace of mind, knowing that their homes and personal spaces are in safe hands.

E. Wide Range of Services

The app covers a broad spectrum of services, from home repairs and maintenance (plumbing, carpentry, electrical work) to personal care (beauty, spa, and grooming) and even cleaning and sanitization services. This diversity makes the Urban Company Finder App a one-stop solution for all your household and lifestyle needs. such as AC repair, wedding makeup, or kitchen cleaning. This variety ensures that no matter the task, there's a reliable professional available to help.

II. LITERATURE SURVEY

1. Finder App Business Model and offering a seamless interface to connect service providers with seekers. Studies emphasize the platform's trust-building mechanisms, including background verification of service providers, transparent pricing, and robust user review systems. These elements establish credibility, encouraging user adoption. The platform's approach to offering tiered service levels (e.g., basic, standard, premium) also caters to diverse customer needs and budgets, making it scalable across different markets.
2. User Experience in Service Aggregator Platforms The usability and design of a service platform are pivotal to its success. Research highlights the importance of minimalistic design, quick navigation, and real-time chat features to enhance user satisfaction. For example, platforms like Zomato and Uber incorporate real-time notifications, service ratings, and quick service re booking options to improve retention. The use of machine learning to predict user needs, such as recurring bookings, adds to the user experience by simplifying the process.
3. Role of Digital Platforms in Enhancing Local Economies Digital service platforms significantly contribute to local economies by providing visibility to small-scale service providers. Case studies from platforms like Justdial and Thumbtack reveal that digital marketplaces create employment opportunities for freelancers and local businesses. Additionally, platforms often provide training and skill development to providers, enabling them to deliver services that meet quality standards.
4. Service Categorization and Search Optimization Efficient service categorization and search functionality are critical for user satisfaction. Research from platforms like Amazon and UrbanClap highlights the importance of tagging, filters (e.g., price, ratings), and sorting options to streamline searches.
5. Challenges of Multi-Role Platforms Managing different roles (user, provider, and admin) within a single platform requires role-specific dashboards and features. Studies suggest that role segregation minimizes complexity and confusion. For example, service providers need tools for managing bookings, tracking earnings, and receiving customer feedback, while users require simplified booking interfaces and secure payment options. Admins benefit from analytics dashboards that track platform performance, user activity, and provider compliance.



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6. Market Penetration and Growth Strategies for Service Platforms Market expansion studies emphasize the importance of targeted marketing and strategic partnerships. Successful platforms like DoorDash and TaskRabbit invest in local campaigns and partnerships with regional service providers to build a robust network. Promotions, such as discounts for first-time users and festive offers, attract new customers. Leveraging social media and influencers also enhances brand visibility, ensuring sustained growth in competitive markets.

III. EXISTING SYSTEM

The current landscape for connecting service providers with service seekers relies heavily on traditional methods or multiple, unintegrated apps. These approaches face several drawbacks:

1. Lack of Transparency: Users often struggle to verify the credentials and reliability of service providers.
2. Inconsistent Quality: Without a unified platform, ensuring consistent service standards is difficult.
3. Limited Accessibility: Traditional methods or scattered platforms limit users' ability to access diverse services conveniently.
4. Inefficient Management: Existing systems often fail to provide comprehensive oversight for administrators, leading to operational inefficiencies.

IV. PROPOSED SYSTEM

The Finder App addresses the shortcomings of the existing system by offering a comprehensive, digital solution:

1. User-Friendly Interface: A streamlined app for users to browse, book, and review services effortlessly.
2. Verified Service Providers: Only pre-vetted professionals are listed to ensure quality and reliability.
3. Efficient Admin Oversight: The Admin dashboard enables seamless management of users, providers, bookings, and payments.
4. Real-Time Updates: Live tracking, status updates, and notifications enhance the user experience.
5. Multi-Category Support: From home cleaning to beauty services, the app caters to a wide range of needs.

Scope of the project:

1. Wide Applicability: The Finder App serves a broad audience, including urban dwellers and professionals seeking quick, reliable services.
2. Scalability: The app's modular architecture supports the addition of new features over time.
3. Enhanced User Experience: By simplifying the process of finding and booking services, the app significantly improves customer satisfaction.
4. Empowering Service Providers: Service providers gain access to a broader customer base, ensuring steady business growth.

V. SYSTEM DESIGN

The Finder App is developed using Android Studio IDE as the primary development environment, providing a robust and feature-rich platform for building high-performance mobile applications. The app leverages the Flutter framework, which enables the development of cross-platform applications with a single codebase, ensuring compatibility across both Android and iOS devices. Dart, the programming language used with Flutter, offers fast development cycles and efficient performance, making it ideal for building responsive and interactive user interfaces. For backend services, the app integrates Supabase, a powerful open-source backend-as-a-service platform that provides real-time database capabilities, authentication, and data storage solutions. Supabase allows for seamless integration of user data, ensuring secure authentication and smooth synchronization across devices. The use of these technologies ensures the app's scalability, security, and maintainability while delivering a seamless user experience. With this stack, the Finder App is equipped to handle the dynamic needs of service seekers and providers efficiently, enabling easy management of profiles, service bookings, and real-time communication.



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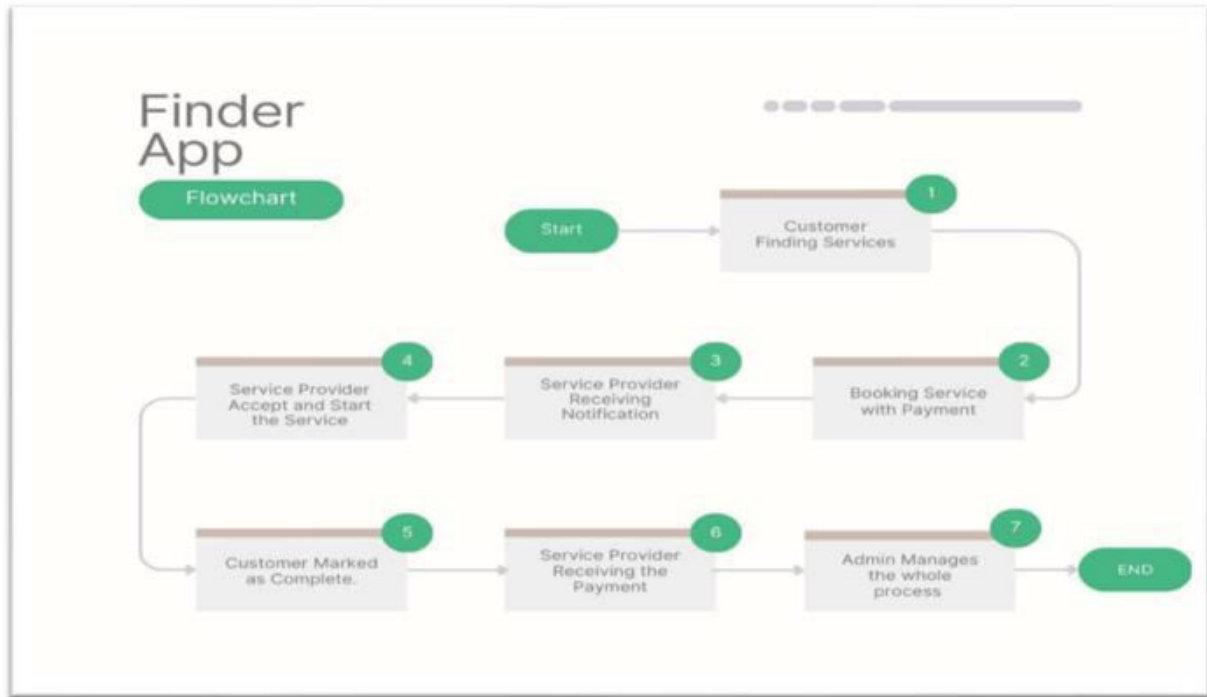


Fig: Flow chart

1. Model Architecture:

The Finder App model architecture is designed to ensure a seamless, efficient, and secure user experience. At the frontend, the app uses Flutter for building cross-platform applications, allowing for a consistent and intuitive user interface on both Android and iOS devices. The user interface includes various features such as user authentication, service provider profiles, search functionalities, and booking capabilities, all aimed at enhancing the overall experience for service seekers and providers. The frontend is powered by state management solutions like Provider or Riverpod, which ensure smooth data flow and dynamic updates without compromising performance. The backend of the Finder App is powered by Supabase, a powerful open-source backend-as-a-service platform that provides features like real-time databases, authentication, and user management.

2. Structured Data:

In the Finder App, structured data refers to organized and easily accessible information that is stored in predefined formats such as databases or tables. This structured data is essential for managing the various elements of the app efficiently, ensuring that the app's features are optimized for user interaction and data management. Below are examples of structured data in the Finder App:

3. Unstructured Data:

Unstructured data in the Finder App refers to information that lacks a predefined format or structure, making it difficult to store in traditional relational databases. This type of data is often more varied and includes text, images, voice recordings, and more. For the Finder App, unstructured data plays a crucial role in enhancing user experience and facilitating more personalized interactions. Below are examples of unstructured data relevant to the app:

User Feedback and Comments: Free-text feedback provided by users about their experience with service providers, app functionality, or suggestions for improvement. This data may come in the form of reviews, ratings, and text descriptions of user experiences.



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Service Provider's Notes and Descriptions: Service providers can add free-form descriptions or notes about their expertise, services offered, or any specializations. These notes are often subjective and don't fit neatly into a structured format, but they are valuable for helping users make informed decisions.

Image Uploads: Users or service providers may upload images such as profile pictures, certificates, or screenshots of service-related issues. These images represent unstructured data that can be useful for identification or visual documentation.

By leveraging these technologies, the Finder App can effectively manage unstructured data, transforming it into actionable insights. This integration allows for a richer user experience and facilitates better decision-making processes, while also ensuring that the app remains user-friendly and intuitive. Combining both structured and unstructured data provides a more comprehensive view of the service provider ecosystem, ultimately helping users find the best matches for their needs.

VI. IMPLIMENTATION

The Service Finder App implementation focuses on facilitating users to book services while ensuring that service requests are correctly routed to providers based on service category. The system architecture supports a modular design to ensure smooth interaction between the user, the service, and the service provider. This process involves matching the service request with an available provider that fits the category of service requested by the user.

A. Modular Description of Algorithm

1. Service Booking Process

- Description of the steps involved when a user selects and books a service.
- Algorithm for User Service Selection: Detailing how the system processes user requests and manages booking flow.

2. Service Matching and Provider Assignment

- Explanation of the algorithm used to match a user's service request with the most suitable provider.
- Matching Algorithm: A step-by-step breakdown of how the system filters and selects service providers based on category, availability, and proximity.

3. Provider Notification and Confirmation

- Description of how the system notifies the service provider and handles confirmation or rejection.
- Algorithm for Provider Notification and Confirmation: Detailing the process of notifying service providers and handling their response (confirmation/decline).

4. User Notification and Booking Confirmation

- Explanation of how the system notifies users regarding the status of their booking.
- Algorithm for User Notification: Detailed steps for sending booking confirmations and reminders.

5. Scalability and System Integration

- Description of how the system scales and integrates with external systems like payment gateways and scheduling tools.

B. SYSTEM TESTING

System testing is essential to ensure the app functions as intended and meets the required standards. The testing process involves identifying, verifying, and validating the functionality of all components of the app, including user interaction, backend processes, security, and overall system performance. System testing is a critical phase in the software development lifecycle that ensures the Finder app operates as intended and meets the defined functional and non-functional requirements. It involves comprehensive evaluation to identify, verify, and validate the behaviour of all components, ensuring that they work cohesively to deliver a seamless user experience. The testing process focuses on verifying individual features, backend operations, security protocols, and overall system performance under various conditions.

Importance of System Testing System testing is essential to:

1. Verify Functional Requirements: Ensure that each feature of the app works as specified, such as user registration, service booking, payment processing, and notifications.



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2. Validate User Experience: Confirm that the app provides an intuitive, user-friendly interface with seamless navigation.
3. Ensure Data Integrity: Verify that data is accurately processed, stored, and retrieved, particularly for sensitive information such as user profiles, payment details, and service history.
4. Check System Interoperability: Validate the app’s integration with third-party services like payment gateways, geolocation APIs, and notification systems.
5. Assess Performance: Test the app’s ability to handle high user loads, ensuring stability and responsiveness even under peak conditions.
6. Identify Security Vulnerabilities: Detect and address potential security risks, including data breaches, unauthorized access, and API vulnerabilities.
7. Guarantee Scalability: Validate that the app can scale to accommodate a growing user base and increasing transactions without degradation in performance.
8. Risk mitigation: Reduces the chances of system failures or critical errors post-launch by catching issues before deployment.
9. Comprehensive validation: Ensures that all parts of the system meet the specified requirements and function correctly.

VII. RESULTS

A. Login Page

The login page in Finder app is a vital component of its digital platform, designed to provide seamless access to a variety of home and professional services. It acts as a secure entry point where users can authenticate their identities and access personalized features to their preferences.

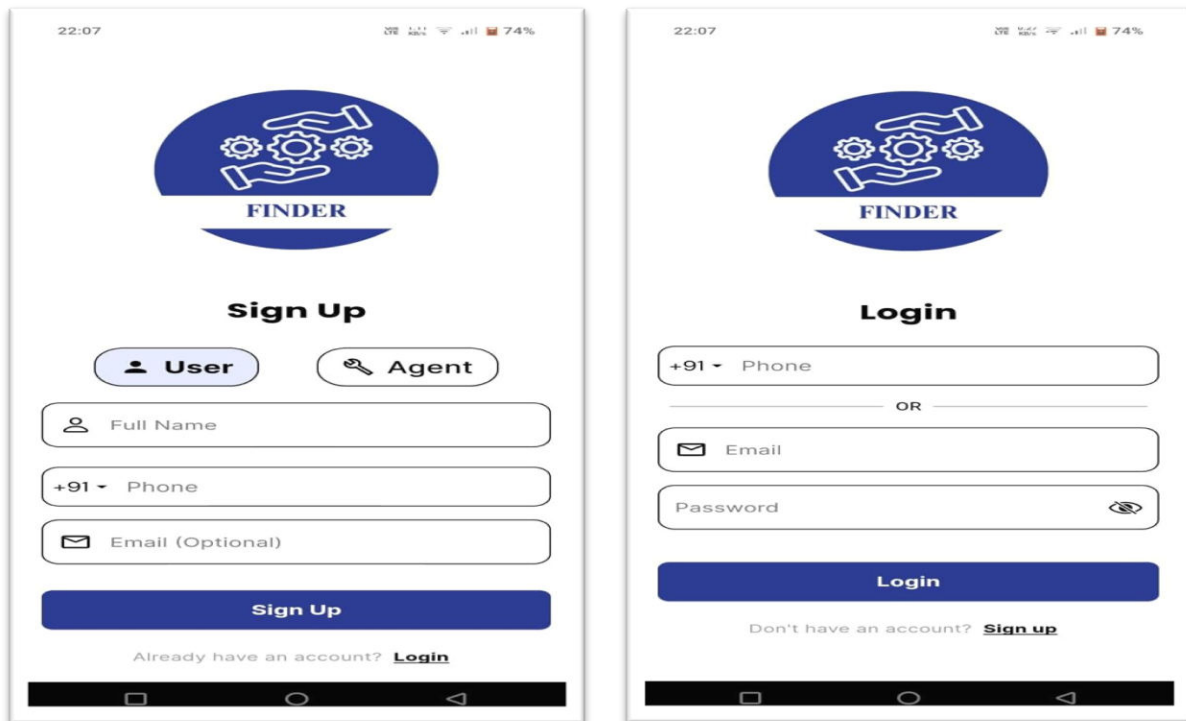


Fig: Sign Up and Login Page



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B. Summary and Payments

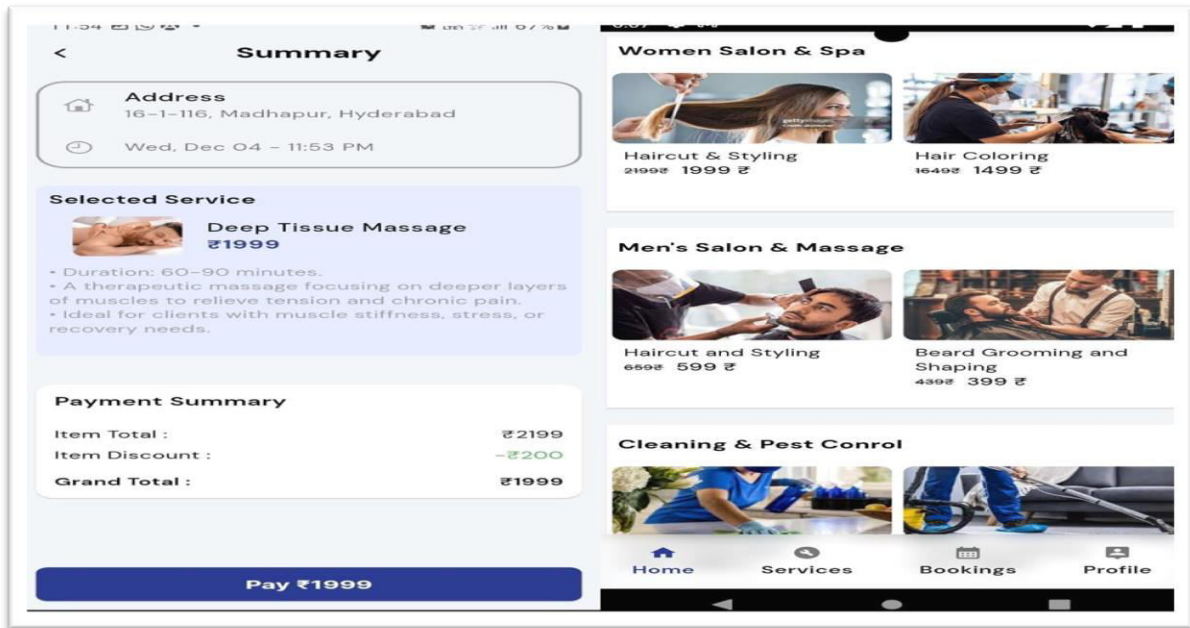


Fig: Summary and Payments

C. Home Page

Finder App brings expert home and personal services right to your doorstep. From cleaning and repairs to beauty and wellness, we make life easier with trusted professionals and hassle-free bookings. Experience convenience, quality, and reliability—all in one place.

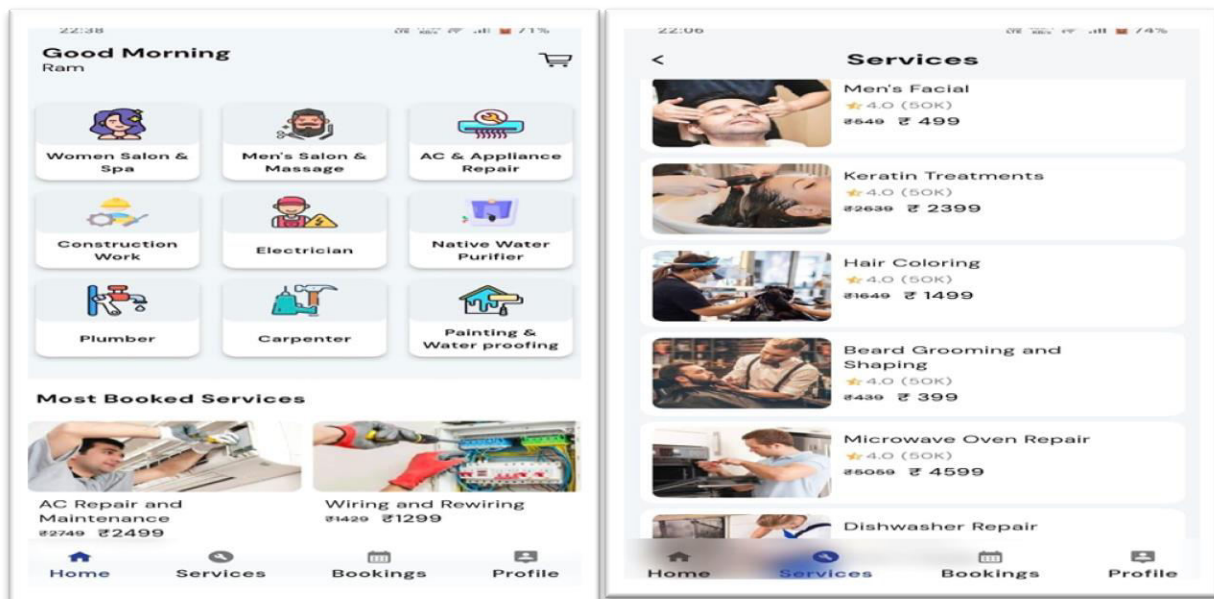


Fig: Home Page



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D. Booking Status

The Booking Status feature in Finder app provides customers with a transparent, real-time update on their service bookings. It streamlines the process of managing service requests for both customers and professionals, ensuring smooth communication and accountability.

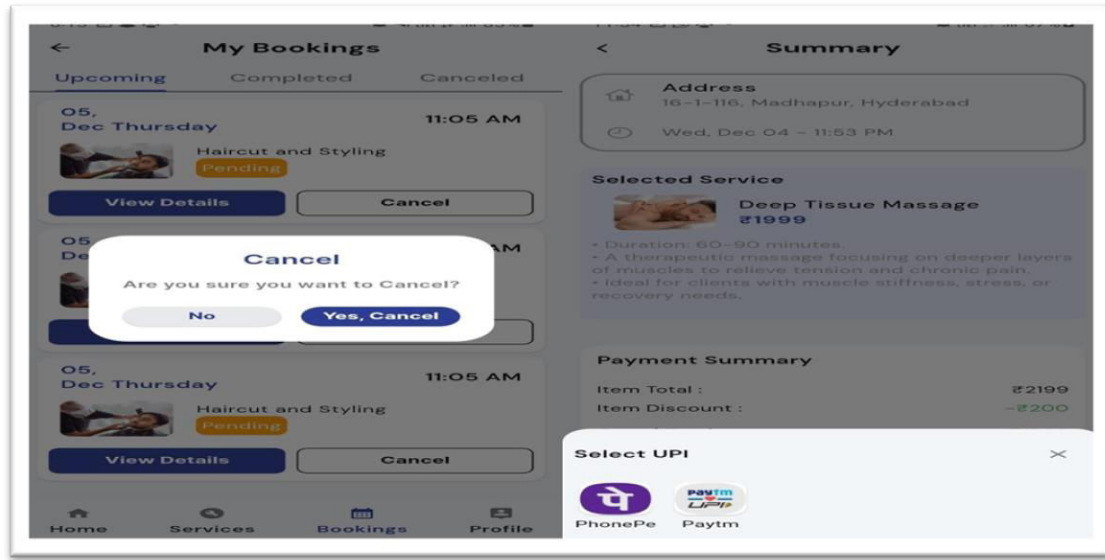


Fig: Booking Status

E. Review Page

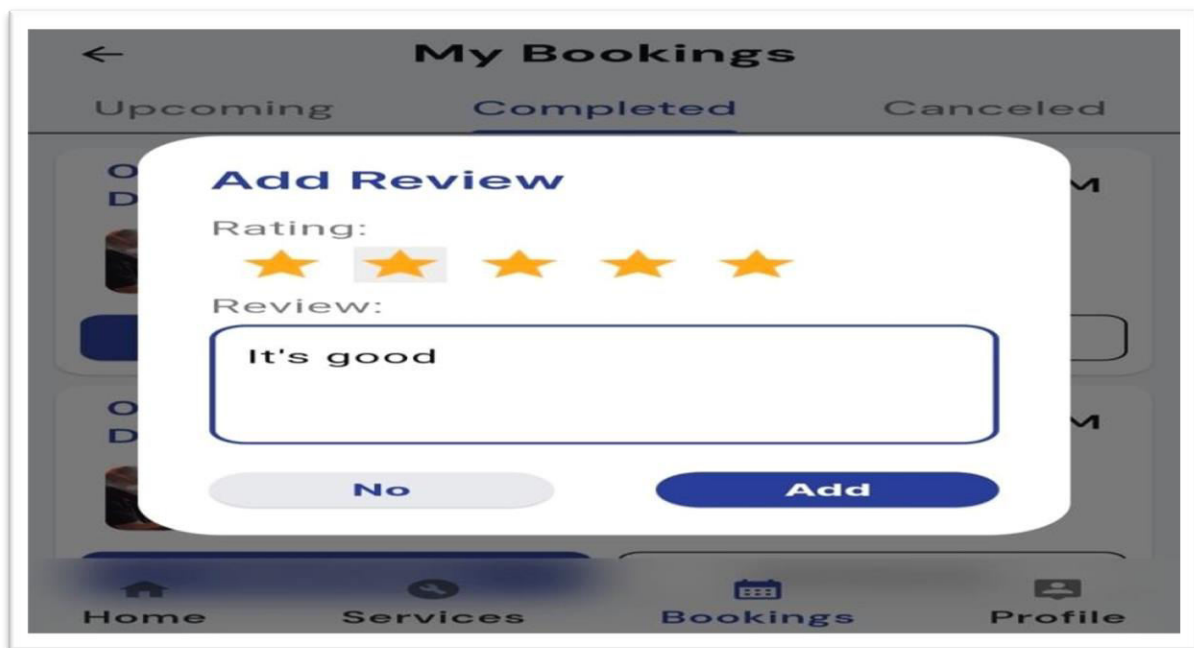


Fig: Review Page



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F. Services Booking Details and Admin Panel

When you book a service on Urban Company, the booking details provide a summary of the essential information related to your request. These details help ensure clarity and transparency for both the customer and the service professional.

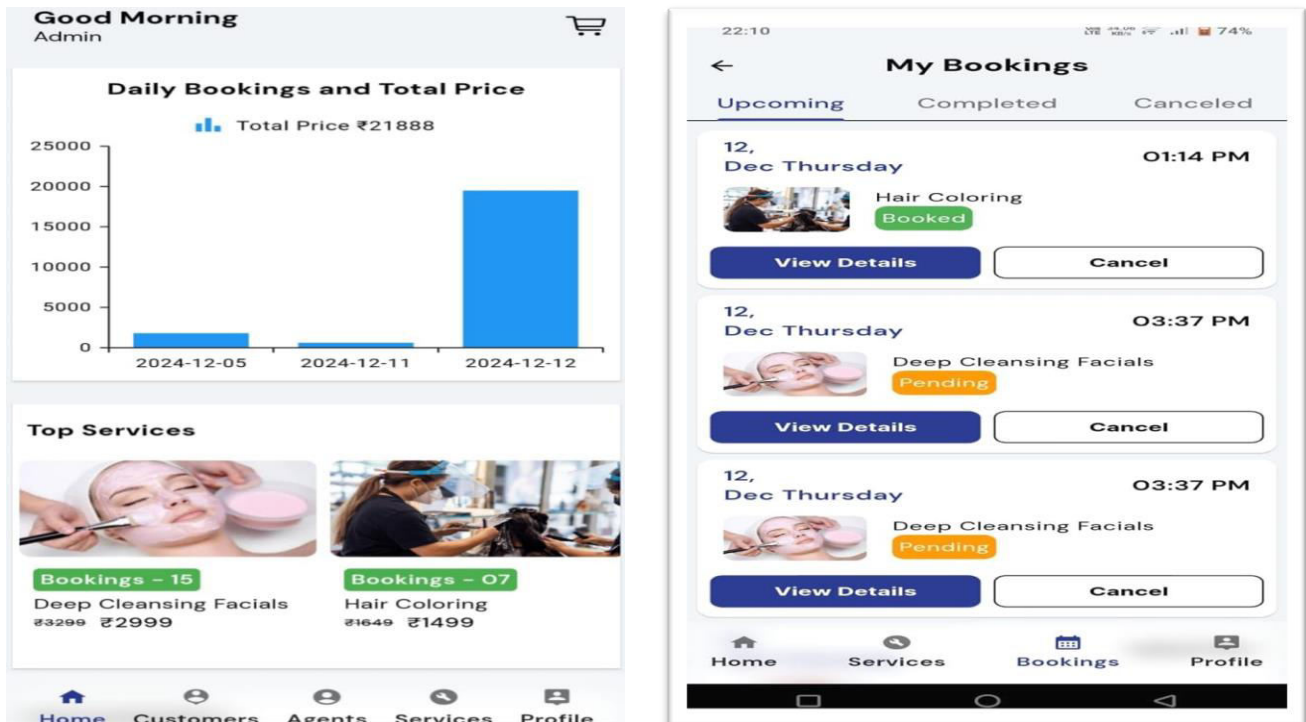


Fig: Services Booking Detail

REFERENCES

- [1] Mohammad Moshawrab, Mehdi Adda, Abdenour Bouzouane, Hussein Ibrahim, Ali Raad, "Reviewing Federated Machine Learning and Its Use in Diseases Prediction", *Sensors*, vol.23, no.4, pp.2112, 2023.
- [2] Ivanoe De Falco, Antonio Della Cioppa, Tomas Koutny, Martin Ubl, Michal Krcma, Umberto Scafuri, Ernesto Tarantino, "A Federated Learning -Inspired Evolutionary Algorithm: Application to Glucose Prediction", *Sensors*, vol.23, no.6, pp.2957, 2023.
- [3] P. Saedi, P. Salpea, S. Karuranga, I. Petersohn, B. Malanda, E. W. Gregg, et al., "Mortality attributable to diabetes in 20 –79 years old adults 2019 estimates: Results from the international diabetes federation diabetes atlas", *Diabetes research and clinical practice*, vol. 162, pp. 108086, 2020.
- [4] Diabetes Complications Severity Index and Risk of Mortality, Hospitalization, and Healthcare Bessie Ann Young, MD, MPH, Elizabeth Lin, MD, MPH, Michael Von Korff, ScD, Greg Simon, MD, MPH, Paul Ciechanowski, MD, MPH, Evette J. udman, PhD, Siobhan Everson - Stewart, BA, Leslie Kinder, PhD, Malia Oliver, BA, EdwardJ.Boyko, MD, MPH, and Wayne J. Katon, MD.
- [5] Gregg E. W., Hora I, Benoit S. R. Resurgence in Diabetes -Related Complications. *JAMA - Journal of the American Medical Association*. 2019.
- [6] Brisimi T. S. Federated learning of predictive models from federated Electronic Health Records. *Int. J. Med. Inform.* 2018.
- [7] Li X. Multi -site fMRI analysis using privacy -preserving federated learning and domain adaptation: ABIDE results. *Med. Image Anal.* 2020.
- [8] Federated Learning Approach to Protect Healthcare Data Over Big Data Scenario brahim EIBayoumyIbrahim El - Bayoumy 2022



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