

A
Mini Project Report

on

Findr : Local Service Finder

Submitted in partial fulfillment of the requirements for the degree

Second Year Engineering – Computer Science Engineering - Data Science

by

Aayush Thakur 23107015

Shrikant Thakur 23107045

Aahan Upadhye 23107027

Durvesh Wagle 23107019

Under the guidance of

Ms. Aavani N



DEPARTMENT OF COMPUTER SCIENCE ENGINEERING(DATA SCIENCE)

A.P. SHAH INSTITUTE OF TECHNOLOGY

G.B. Road, Kasarvadavali, Thane (W) - 400615

UNIVERSITY OF MUMBAI

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CERTIFICATE

This to certify that the Mini Project report on **Findr : - Local Service Finder** has been submitted by Mr. Aayush Thakur (23107015), Mr. Aahan Upadhye (23107027) and Mr. Shrikant Thakur (23107045) and Mr. Durvesh Wagle (23107019) who are bonafide students of A. P. Shah Institute of Technology, Thane, as a partial fulfillment of the requirement for the degree in **Computer Science Engineering (Data Science)** during the academic year **2024-2025** in a satisfactory manner as per the curriculum laid down by the University of Mumbai.

Ms. Aavani N
Guide

Ms. Anagha Aher
HOD, CSE(Data Science)

Dr. Uttam D. Kolekar
Principal

External Examiner:

Internal Examiner:

Place: A. P. Shah Institute of Technology, Thane

Date:

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Chapter 1

Introduction

In today's fast-paced world, finding reliable local service providers can be a daunting task. Many individuals struggle to connect with skilled professionals for essential household services such as plumbing, electrical work, cleaning, and pet care. The traditional method of searching for service providers through word-of-mouth recommendations or online directories often leads to delays, lack of reliability, and uncertainty regarding service quality. To address these challenges, Findr: Local Service Finder has been developed as a user-friendly and efficient platform that bridges the gap between service seekers and verified providers, ensuring a seamless and secure booking experience.

The primary objective of Findr is to create a centralized and well-structured system where users can quickly find and book trusted professionals based on their needs. The application offers an intuitive and interactive interface that allows users to sign up, login, and explore a wide range of essential services such as cleaner, chef, pet care, electrician, plumber, and driver. Once a user selects and books a service, the system provides comprehensive details about the assigned service provider, including their name, experience, ratings, availability, and service fees. This transparent approach ensures that users can make informed decisions before proceeding with payment.

To further enhance the overall user experience, Findr incorporates several key features that simplify service management and improve accessibility. The platform supports secure online payments, allowing users to complete transactions without hassle. Additionally, users have access to a detailed booking history, invoices for past transactions, service details, and an efficient review system that enables them to share their feedback about the services received. These features contribute to building trust within the platform, as future users can rely on authentic reviews and ratings when selecting service providers.

Moreover, Findr prioritizes user convenience by integrating functionalities such as password reset options, real-time notifications, and a built-in chat system that facilitates direct

communication between users and service providers. These features ensure a smooth and responsive interaction, reducing potential miscommunications and delays in service fulfillment. The notification system keeps users updated on service bookings, payment confirmations, and appointment reminders, enhancing the overall efficiency of the platform.

By streamlining the process of finding and hiring local service providers, Findr aims to revolutionize the way people access household services. The app not only provides a hassle-free solution for users in need of services but also offers a structured and accessible marketplace for service providers to expand their reach and grow their businesses. Ultimately, Findr fosters a trusted and reliable network for local services, ensuring that individuals can easily find high-quality assistance whenever they need it.

1.1. Purpose

The purpose of Findr: Local Service Finder is to provide a seamless and efficient platform that connects users with reliable local service providers. The app simplifies the process of finding and booking essential services such as cleaning, plumbing, electrical work, pet care, cooking, and driving by offering a centralized system. Users can easily browse available services, view provider details like ratings and fees, and securely book professionals based on their needs. By ensuring transparency and reliability, Findr eliminates the hassle of traditional service-searching methods and enhances user convenience.

Additionally, Findr integrates secure payments, booking history, invoice generation, reviews, notifications, and a chat system to improve the overall user experience. These features not only streamline service management but also help providers expand their reach and connect with a larger customer base. By creating a well-structured and trustworthy service marketplace, Findr aims to make essential services more accessible, efficient, and reliable for both users and service providers.

1.2. Objectives

The Findr Project aims to revolutionize the way users connect with local service providers by offering a smart, user-friendly Recipe Generation platform. With a focus on simplicity and efficiency, Findr streamlines the service booking experience by bringing together verified providers and users on a single, centralized platform. By prioritizing transparency, security, and ease of access, Findr not only ensures seamless transactions and informed decisions but also empowers both users and service providers through an organized and reliable digital marketplace.

- Simplify the service booking process by providing a centralized platform that connects users with verified service providers.
- Ensure transparency by displaying ratings, reviews, and service details before booking.
- Facilitate secure transactions through an integrated payment system for hassle-free payments.
- Enhance user experience by offering features like booking history, invoice generation, and notifications.
- Improve service accessibility and provider reach by creating a structured and reliable marketplace for local services.

1.3. Scope

Findr: Local Service Finder is designed to make discovering and booking local services effortless and reliable. By offering a streamlined platform where users can easily register, log in, and explore a variety of verified service providers, Findr ensures a smooth and secure user experience. With features like real-time notifications, secure payments, detailed provider profiles, and direct chat support, Findr bridges the gap between users and service professionals—bringing convenience, transparency, and trust to every interaction. Users can register, log in, and browse available services.

- Provider profiles include ratings, experience, and pricing.
- Users can book services, make secure payments, and view booking history.
- Real-time notifications keep users updated on bookings.
- Chat feature enables direct communication with service providers

Chapter 2

Proposed System

Findr: Local Service Finder aims to streamline the process of finding and booking local services by providing a centralized platform that connects users with reliable service providers, ensuring transparency, convenience, and efficient management. The system addresses common issues like delays in service booking, lack of provider transparency, and inefficient communication between users and service providers.

- **User Registration**

Users can easily sign up by providing personal details and preferences, allowing them to access a range of services based on their needs. This process ensures a smooth start and helps maintain accurate user profiles for better service recommendations.

- **Service Provider Management**

Service providers can create and update their profiles with details such as services offered, pricing, experience, and ratings. This ensures transparency and gives users enough information to make informed decisions when booking services.

- **Booking and Payment System**

Users can seamlessly browse services, book appointments, and make secure payments within the app. The system ensures that transactions are processed safely, and users can easily track their payment history and booking details.

- **Secure Data Handling**

The system ensures the security of user and service provider data through encryption. Only authorized users have access to sensitive information, ensuring privacy while maintaining transparency in service transactions.

- **Real-Time Notifications and Communication**

The app sends real-time updates for booking confirmations, payment status, and service reminders. Additionally, the chat feature enables direct communication between users and service providers, ensuring efficient coordination and problem resolution.

2.1 Features and Functionality

This app provides a comprehensive platform connecting users with service providers through a seamless, secure, and user-friendly interface. Users can register by sharing personal details, preferences, and location, and update profiles for accurate service suggestions. Service providers can manage their profiles, services, and availability transparently. A robust booking and payment system enables users to browse, book, and pay for services securely, with automated invoice generation for record-keeping. Users can leave reviews post-service to maintain transparency and help others make informed choices. The app emphasizes secure data handling with encryption and access controls, while real-time notifications and an intuitive interface ensure a smooth experience. Built-in chat and support features allow effective communication and assistance, making the platform reliable for both users and service providers.

Features:

- **User & Provider Profiles:** Both users and service providers can register, update, and manage detailed profiles to improve service matching and transparency.
- **Secure Booking & Payment:** A built-in system allows service selection, secure payments, and automatic invoice generation after service completion.
- **Review System:** Users can rate and review service providers, enhancing platform credibility and assisting others in decision-making.
- **Real-Time Notifications:** Users and providers receive instant updates on bookings, payments, and service changes through push notifications.
- **Communication & Support:** Integrated chat and a support system offer direct communication and issue resolution between users and providers.

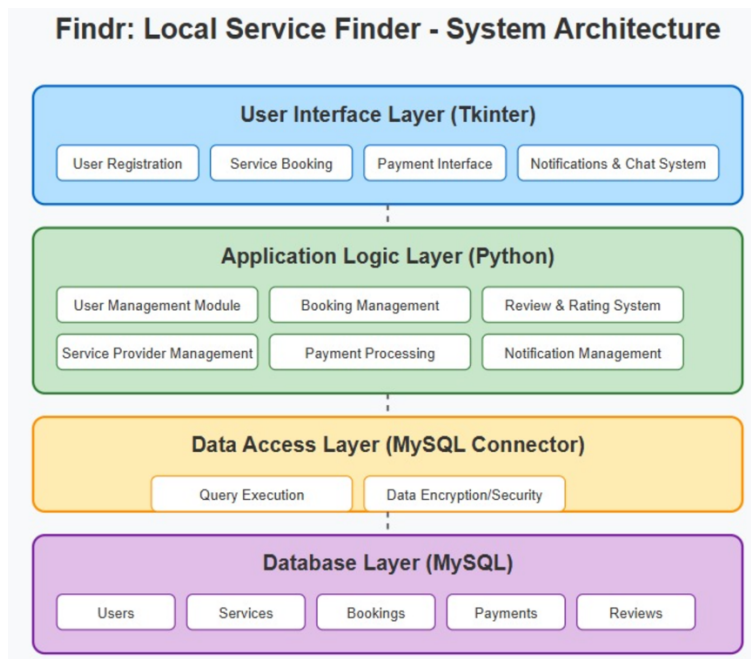


Figure 2.1: Block Diagram

Figure 2.1 shows Block Diagram for the project, it shows how the data is processed in the project. At the top, the User Interface Layer built with Tkinter allows users to register, book services, make payments, and access notifications or chat. Beneath that, the Application Logic Layer (Python) handles core functionalities such as user and service provider management, booking, payments, reviews, and notifications. The Data Access Layer, using MySQL Connector, acts as a bridge between the logic and database layers, ensuring secure query execution and data handling. At the base, the Database Layer (MySQL) stores structured data including users, services, bookings, payments, and reviews, enabling persistent and organized data management across the system.

Chapter 3

Project Outcomes

This application serves as a robust, all-in-one platform connecting users with service providers based on their preferences, location, and needs. Users can easily register by entering personal details and update their profiles to receive tailored service recommendations. Service providers, on the other hand, can create detailed profiles showcasing their expertise, services offered, availability, ratings, and pricing—ensuring transparency and attracting the right clients. The integrated booking and payment system allows users to conveniently browse, select, and confirm services with real-time booking confirmations and automated invoice generation. Users can rate and review providers after services are rendered, which fosters trust and helps others make well-informed choices. Furthermore, the system is built with strong encryption and access control mechanisms to protect user and provider data. Real-time push notifications keep everyone updated on bookings, payments, and service status, while a clean, user-friendly interface ensures seamless navigation. Additionally, built-in chat and support systems allow users and providers to communicate effectively and resolve issues promptly, ensuring a smooth and reliable service experience.

- **User & Service Provider Profile Management**

Both users and service providers have personalized accounts that they can easily create and manage.

- **For users**, this includes adding personal details, preferences, and location to receive relevant service suggestions.
- **For service providers**, profiles include services offered, qualifications, years of experience, pricing, and availability schedules.
- This feature ensures that all information is up-to-date, accurate, and personalized, leading to better service matching and overall efficiency.

- **Seamless Booking and Secure Payment Integration**

The app provides a streamlined process for browsing, selecting, and booking services directly from the platform.

- Users can compare service providers based on their offerings and ratings, then make secure payments within the app.
- Once a service is booked, users receive immediate confirmation and a digital invoice outlining service details and payment status.
- This reduces the hassle of offline coordination and ensures a smooth, end-to-end transaction process.

- **Transparent Rating and Review System**

After completing a service, users can provide feedback in the form of ratings and written reviews.

- This feedback is visible to other users, allowing them to assess the credibility and quality of a provider before booking.
- Service providers benefit from constructive feedback, which helps them improve and maintain service standards.
- Overall, the review system builds trust, encourages accountability, and creates a transparent environment.

- **Robust Data Security and Real-Time Notifications**

Security and timely updates are core components of the app.

- Sensitive information like payment details and personal data is encrypted and protected through strict access control, ensuring only authorized users can view or modify it.
- Real-time notifications alert users and providers about bookings, appointment changes, payment statuses, and reminders.

- This keeps all parties informed, reduces miscommunication, and helps maintain professional service flow.

- **Built-In Communication and Support System**

Effective communication tools are embedded within the app to improve service coordination.

- Users and providers can message each other directly via a secure in-app chat feature to clarify details, ask questions, or make last-minute adjustments.
- In addition, a dedicated support system is available to handle complaints, disputes, or technical issues, ensuring users receive timely assistance.
- This creates a more connected, responsive experience and builds long-term customer satisfaction.

Chapter 4

Software Requirements

The software requirements section of the Flavour Fusion project outlines the essential technical specifications needed for the recipe generation platform. It includes both functional requirements, detailing specific features such as ingredient-based recipe suggestions and the recipe rating system, and non-functional requirements, addressing performance, security, and usability.

Front-end Development:

- **Python with Tkinter** – Python, along with the Tkinter library, is used to develop the user-friendly graphical interface for Flavour Fusion. It enables the creation of a simple yet effective UI for the user.

Back-end Development:

- **MySQL (Version 8.0.1)** – MySQL serves as the database management system for Flavour Fusion, handling user profiles, recipe data, ratings, and ingredient records. Its relational structure ensures efficient data retrieval, security, and integrity, allowing users to access personalized recipe recommendations seamlessly.

Additional Technologies:

- **Python (Python Development Environment)** – Python provides the core functionality for the application, supporting data processing, database interaction, and algorithm-driven recipe generation. It offers scalability and flexibility, making it ideal for this project.
- **Tkinter (Python GUI Library)** – Tkinter is used for creating the interactive user interface, allowing users to input ingredients, browse suggested recipes, and rate meals with ease.
- **MySQL Connector for Python** – This library enables smooth communication between the Python-based front end and the MySQL database, ensuring efficient data transactions.

Chapter 5

Project Design

The front end of Findr is designed using Figma for UI/UX prototyping, ensuring an intuitive and visually appealing interface. The application is developed using Tkinter, a Python-based GUI framework, which enables the creation of interactive elements such as buttons, forms, and navigation menus. Development and testing are done in VS Code, providing robust debugging tools and efficient code management. The interface includes features like service selection, booking forms, payment integration, and feedback submission, ensuring a seamless user experience. The back end is powered by MySQL, which serves as the relational database for storing user details, service provider information, booking history, invoices, and payment transactions. The database is structured to efficiently manage multiple service categories and their availability. MySQL Connector allows secure communication between the application and the database, handling user authentication, storing booking details, processing payments, and maintaining service records.

The system integrates real-time booking updates, secure payment handling, notifications for confirmations and service status, and a user review system. A built-in chat feature allows direct communication between users and service providers. Encryption techniques ensure data security, and structured data flow enhances the speed and efficiency of service searches and transactions, providing a reliable and user-friendly service booking experience.



Figure 5.1: Workflow for the project

Figure 5.1 shows workflow of the project which shows how the project flows from registration to review.

Chapter 6

Project Scheduling

The project commenced with thorough planning and requirement gathering, focusing on identifying user needs and defining essential functionalities. Research was carried out to finalize the technology stack, selecting Tkinter for the user interface, MySQL for data management, and VS Code as the development environment. Initial wireframes were created using Figma to visualize the app's workflow. During the design and development phase, an interactive front-end was built using Tkinter to support features like service selection, booking, and payment. Concurrently, the MySQL database was structured to store user profiles, service provider data, and booking history, with backend integration handled through MySQL Connector for smooth data communication. Extensive testing followed, covering navigation flow, transaction security, and data integrity. Features such as real-time booking updates, notifications, and the review system were tested for functionality and user experience. After resolving bugs and optimizing performance, the application was finalized and prepared for deployment.

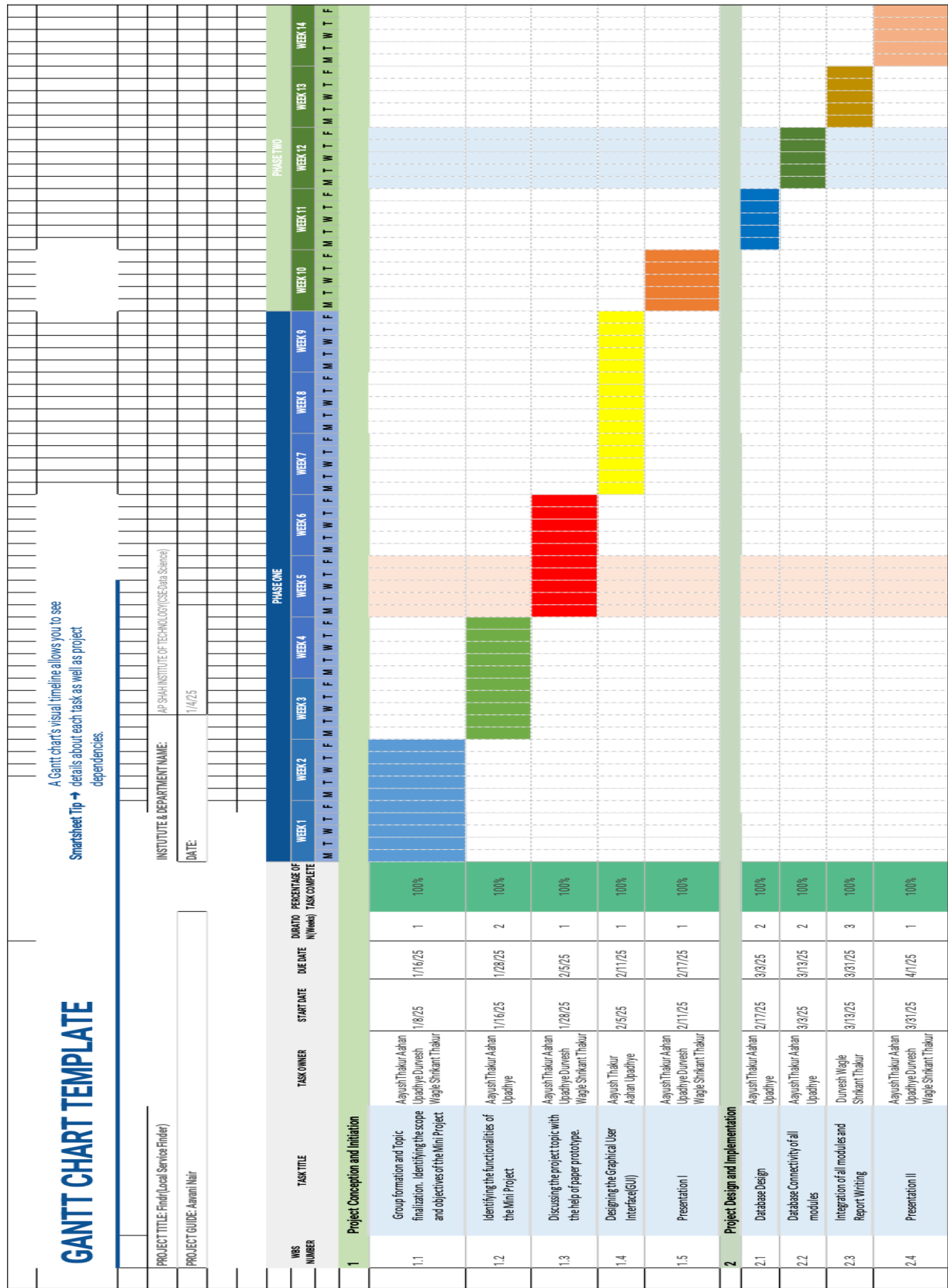


Figure 6.1: Gantt Chart of Findr: Local Service Finder

Following is the detail of the Gantt chart for the Findr project – In the first week of January, Aayush Thakur, Durvesh Wagle, Aahan Upadhye and Shrikant Thakur formed a group to discuss and finalize the project's topic, scope, and objectives. This initial planning phase was completed by the end of the first week.

In the following weeks, the team worked on creating a paper prototype and refining the concept of the service findr platform. This phase was completed by the end of February. By mid-February, the team started executing the design and integration of the graphical user interface (GUI) of the platform. After the first internal review on 11/02/2025, the team received feedback on the GUI, which led to several revisions that were approved by the end of the month.

During the last week of March, Aayush Thakur and Aahan Upadhye focused on connecting the MySQL database with the front-end interface, while Shrikant Thakur and Durvesh Wagle worked on finalizing documentation and the technical report. This integration was completed by the end of March.

Finally, the team integrated all modules and completed the final report and documentation by early April. The final presentation took place on 02/04/2025, which was successfully reviewed and approved by the faculty and the project's complete execution took 14 weeks.

Chapter 7

Results

Findr redefines convenience by seamlessly connecting users with trusted local service providers through an intuitive and efficient platform. The app combines a user-friendly Tkinter interface with a powerful MySQL backend to deliver instant access to verified professionals, secure in-app payments, and real-time booking management. With features like transparent provider ratings, real-time notifications, and organized service history, Findr eliminates the traditional hassles of finding reliable help while fostering trust between users and service providers.

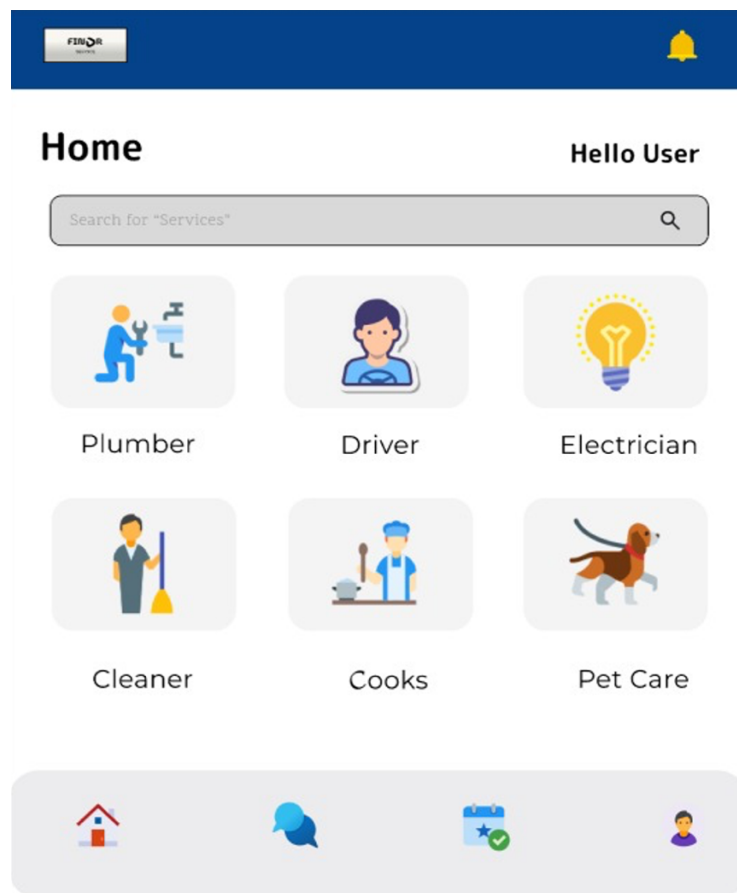
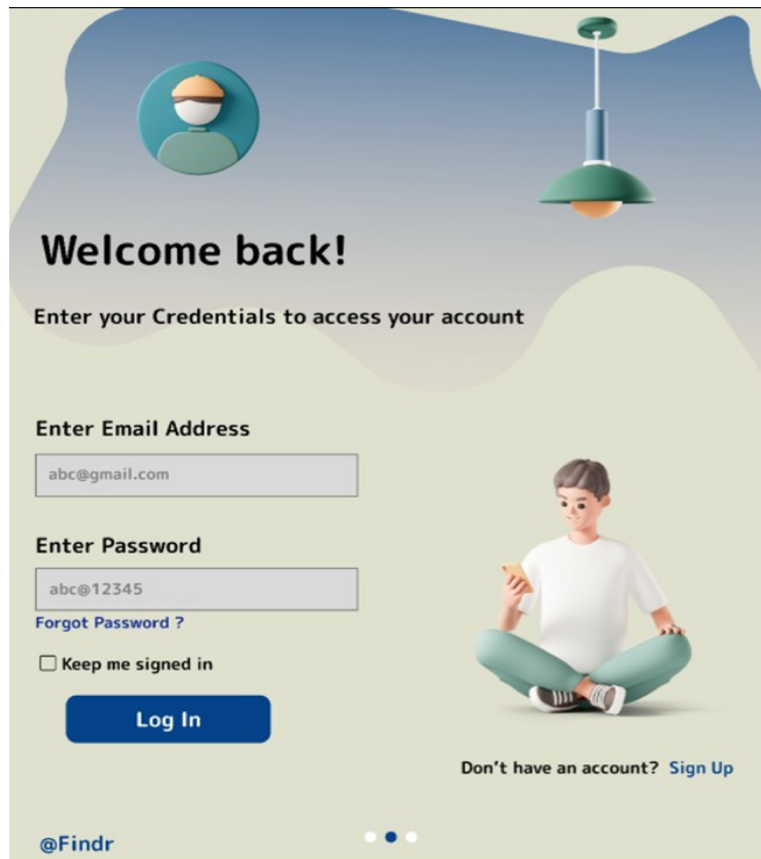


Figure 7.1: Home Page

Figure 7.1 above showcases the home page layout, highlighting the focus on the service options, allowing users to book service with ease. The clean and user-friendly design ensures smooth navigation and encourages user engagement, setting the tone for an intuitive recipe discovery experience on the platform.



The Sign In page features a stylized background with a blue and green gradient, a circular profile icon with a bowl of food, and a green pendant lamp. The main heading is "Welcome back!". Below it, the instruction "Enter your Credentials to access your account" is displayed. The form includes two input fields: "Enter Email Address" with the placeholder "abc@gmail.com" and "Enter Password" with the placeholder "abc@12345". A link "Forgot Password ?" is positioned below the password field. A checkbox labeled "Keep me signed in" is present, followed by a blue "Log In" button. To the right of the form is an illustration of a man in a white shirt and green pants, sitting cross-legged and holding a smartphone. At the bottom right, a link "Don't have an account? Sign Up" is shown. The footer includes the "@Findr" logo and three small dots.

Welcome back!

Enter your Credentials to access your account

Enter Email Address

abc@gmail.com

Enter Password

abc@12345

[Forgot Password ?](#)

☐ Keep me signed in

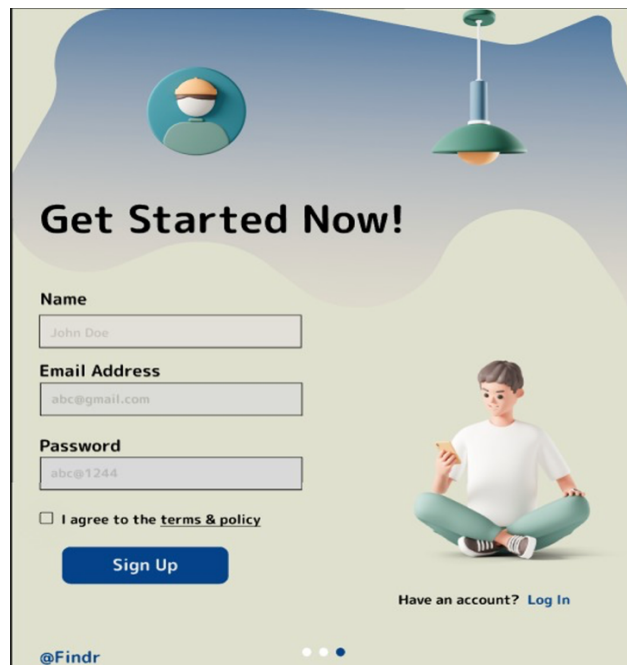
Log In

Don't have an account? [Sign Up](#)

@Findr

Figure 7.2: Sign In Page

Figure 7.2 above shows the login page, which serves as the gateway for users to access their respective accounts on the Flavor Fusion platform. It includes input fields for email and password, with options for user login, admin login, and new user registration. The layout emphasizes simplicity and security, ensuring a smooth and safe login experience for all users.



The Registration page features the same stylized background as the Sign In page. The main heading is "Get Started Now!". The form includes three input fields: "Name" with the placeholder "John Doe", "Email Address" with the placeholder "abc@gmail.com", and "Password" with the placeholder "abc@1244". Below the password field is a checkbox labeled "I agree to the [terms & policy](#)". A blue "Sign Up" button is positioned below the checkbox. To the right of the form is the same illustration of a man sitting cross-legged and holding a smartphone. At the bottom right, a link "Have an account? Log In" is shown. The footer includes the "@Findr" logo and three small dots.

Get Started Now!

Name

John Doe

Email Address

abc@gmail.com

Password

abc@1244

☐ I agree to the [terms & policy](#)

Sign Up

Have an account? [Log In](#)

@Findr

Figure 7.3: Registration Page

Figure 7.3 shows the signup page, where new users can create an account on the Findr platform. The page includes fields for entering basic information such as name, email, password. Its simple and clean layout ensures a quick and user-friendly registration process.

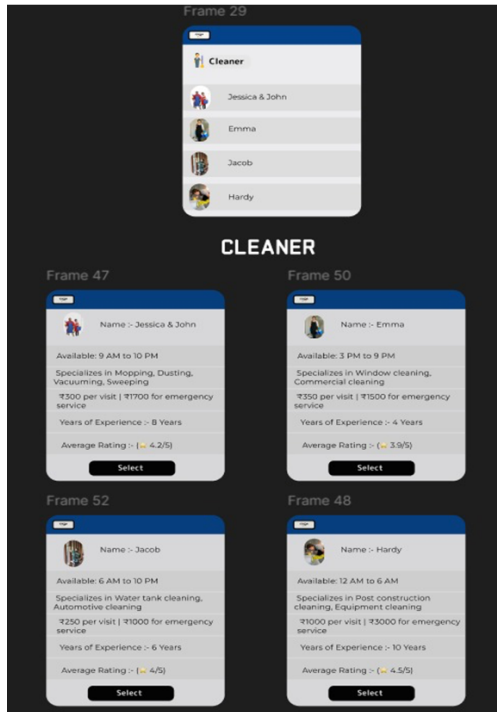


Figure 7.4: Service Page

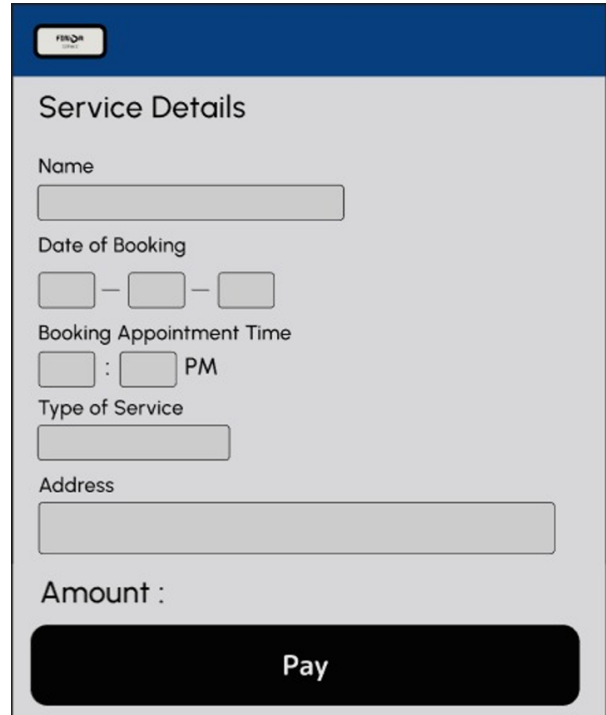


Figure 7.5: Service Detail Page

Figure 7.4 above shows an service page, which lets. User selects the person they what to book and it shows its page, where if they agree with the price, they can book him or go back.

Figure 7.5 above shows service detail page, where user see the details of the service they booked and his address, user needs to enter date and time to let them select when they need to come for the service.

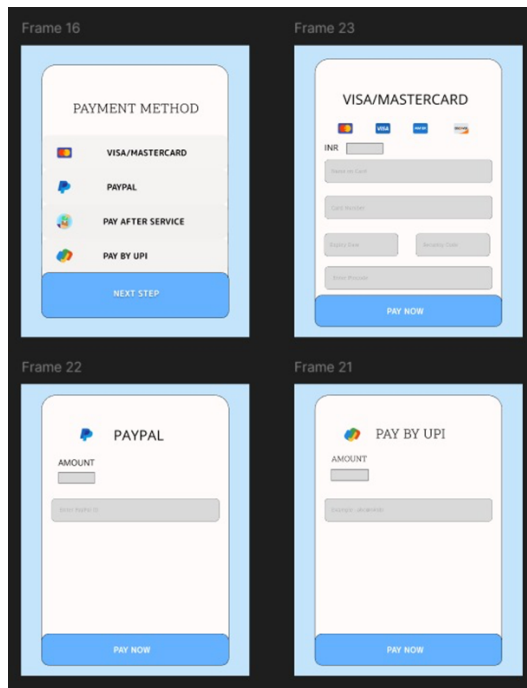


Figure 7.6: Payments Page

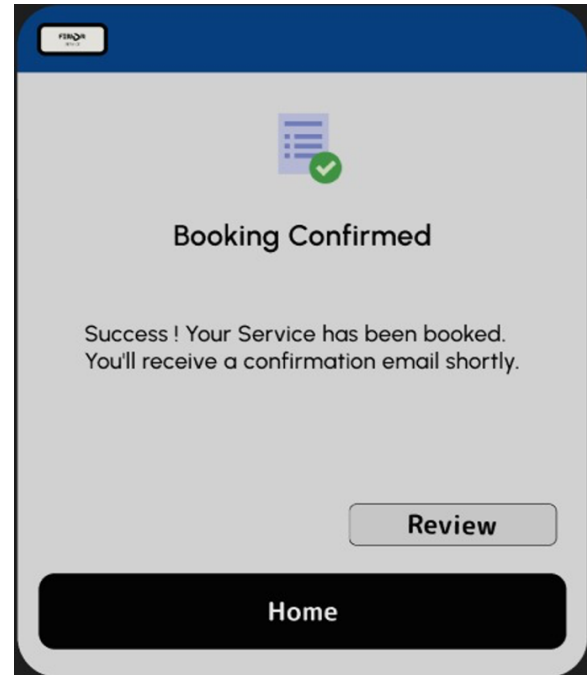


Figure 7.7: Confirm Page

Figure 7.6 above shows Payments page where they can pay using their preferred payment method and can finalized the booking.

Figure 7.7 above shows Confirm page which shows users their booking is confirmed, they are given two option, one is to review the service or they can skip it and go home.

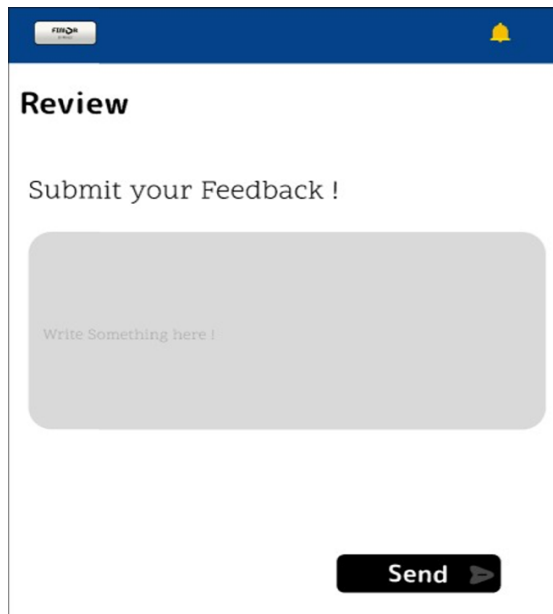
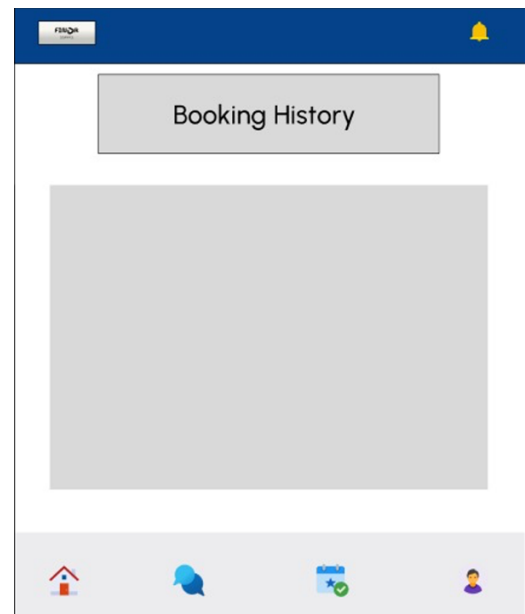


Figure 7.8: User Profile Display Figure.



7.9:Booking history page

Figure 7.8 above shows Review page which is shown if user choses to review the service. This feedback is send to the company which hosts the application

Figure 7.9 above shows booking history page, where user can see their booking history i.e, they can see what they have/previously have booked.

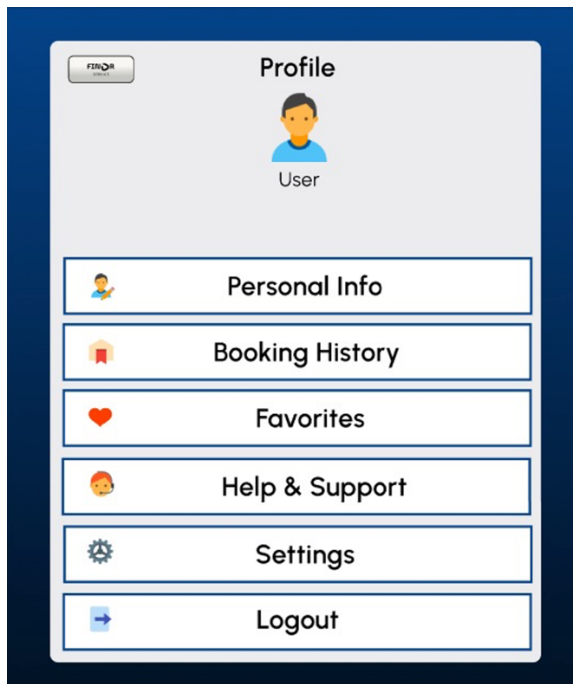


Figure 7.10: Profile Page

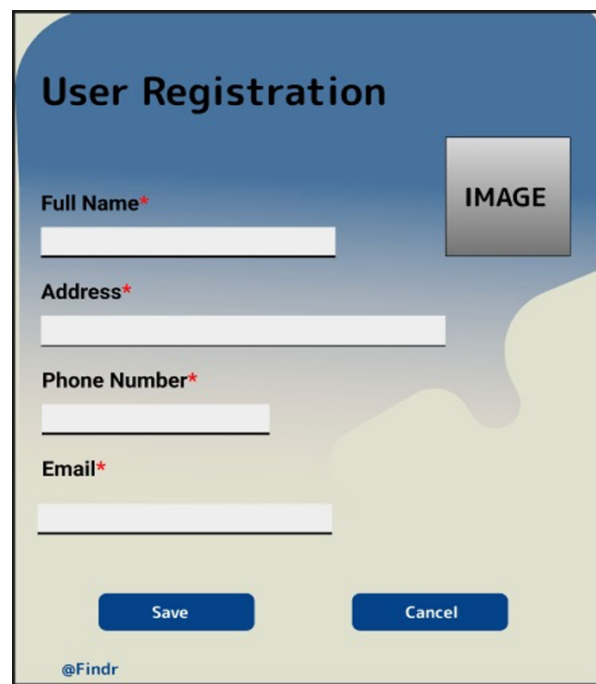


Figure 7.11: Registration Page

Figure 7.10 above shows Profile page where they can enter the following options to do following things. Eg, user can enter Booking History to view their Booking History or they can visit Personal Info page to edit their profile and user data.

Figure 7.11 above shows Ragistration Page where they can add/modify their info and save it or click cancel to go back to home page.

In summary, the implemented pages create a strong foundation for both company and users on the Findr platform. The login and signup pages ensure secure and easy access. Users benefit from a dashboard that supports searching recipes by ingredients or category, and also allows them to add their own recipes. Additional features like profile management and payment enhance usability and engagement, making the overall booking experience more convenient and interactive.

Chapter 8

Conclusion

Findr is designed to simplify the process of finding and hiring local service providers by offering a quick, efficient, and user-centric platform. Whether users need help with household repairs, personal grooming, tutoring, or other everyday services, Findr makes it easy to connect with trusted professionals nearby. By focusing on convenience and speed, the app addresses common pain points such as unreliable providers, lack of transparency, and time-consuming bookings.

The app features a clean, intuitive interface that allows users to browse available services, check provider details, schedule appointments, and make secure payments—all within a few clicks. It includes real-time updates, booking confirmations, in-app chat for direct communication, and an easy-to-navigate review system to promote trust and accountability. With its seamless integration of service management and user interaction, Findr enhances the overall experience, ensuring reliability, accessibility, and customer satisfaction for both users and service providers.

Future implementations aim to further enrich the platform by introducing features such as AI-based service recommendations, GPS-based provider tracking, and subscription plans for frequent users. Additionally, expanding the app to support multilingual interfaces and integrating digital wallets will cater to a more diverse user base. Advanced analytics for service providers and admin-level dashboards are also planned to help monitor performance, improve services, and scale the platform efficiently.

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