A
PROJECT REPORT ON

EASY CLEANING

SUBMITTED IN
PARTIAL FULFILLMENT OF

DIPLOMA IN MOBILE COMPUTING (PG - DMC)

BY

SHREYA SAWARKAR

UNDER THE GUIDENCE OF

Rohan Paramane

AT

SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY, PUNE

CERTIFICATE

This is to certify that the project

EASY CLEANING

Has been submitted by

SHREYA SAWARKAR

In partial fulfillment of the requirement for the Course of **PG Diploma in Mobile Computing (PG – DMC FEB 2024)** as prescribed by The **CDAC** ACTS, PUNE.

Place: Pune

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Rohan Paramane
Project Guide

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Shreya Sawarkar

ABSTRACT

Easy Cleaning app is designed to streamline home maintenance services by offering a user-friendly platform where individuals can easily access professional cleaning and repair services. Drawing inspiration from successful models like Urban Company, the app caters to the needs of busy modern lifestyles, providing a seamless experience for booking services, scheduling appointments, and making payments. With a focus on quality assurance, a wide range of service offerings, and an emphasis on convenience and transparency, Easy Cleaning aims to revolutionize the way people manage their household needs.

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INTRODUCTION

Easy Cleaning, the ultimate solution for modern homeowners seeking convenience and efficiency in home maintenance. Inspired by the success of pioneering platforms like Urban Company, Easy Cleaning aims to streamline the process of accessing professional cleaning and repair services. Designed to cater to the fast-paced lifestyles of today's individuals, our user-friendly app provides seamless booking, scheduling, and payment options, ensuring a hassle-free experience every time. With a focus on quality, reliability, and customer satisfaction, Easy Cleaning sets a new standard in home services. Say goodbye to the stress of household chores and embrace a cleaner, more organized home with Easy Cleaning.

The goal of this project: The goal of Easy Cleaning is to revolutionize home maintenance services by offering a convenient and efficient platform for users to access professional cleaning and repair services. The app aims to cater to the busy lifestyles of modern individuals, providing them with reliable and hassle-free solutions for their household needs. By seamlessly connecting users with skilled professionals through a user-friendly interface, Easy Cleaning seeks to simplify the process of booking, scheduling, and managing home services. Ultimately, the goal

is to enhance the overall experience of maintaining a clean and well-maintained home, allowing users to focus on other aspects of their lives with peace of mind.

Product Overview and Summary

| Purpose: Through research of similar apps we found a number of features that seemed useful in our design. Simplistic Design: Overall, we found that the Moves app presented an extremely clean and simplistic layout that presented important information as soon as it was opened. We decided to model our app with this same mentality of keeping screens simplistic and present important data upfront.

Scope: The scope of the Easy Cleaning app encompasses a comprehensive suite of features aimed at revolutionizing the home maintenance service experience for users. Primarily, the app facilitates seamless access to professional cleaning and repair services, offering a user-friendly interface .Users can browse a diverse range of cleaning and repair services, including general house cleaning, deep cleaning, plumbing, electrical repairs, and more.The app enables users to effortlessly book services at their preferred date and time, with options for one-time or recurring appointments to accommodate diverse scheduling needs.Easy Cleaning provides transparent pricing information for all services, including upfront cost estimates and any additional fees, empowering users to make informed decisions.Following service completion, users can provide feedback and ratings based on their experience, fostering accountability and continuous improvement within the Easy Cleaning community.

**| Design and Implementation Constraints**

- User Interface

In order to effectively incorporate each of the three focus areas of our application (sleep, food consumption) into the user interface without creating too much clutter, we opted to use a tabbed design. When the app is initially opened, the user is taken to the "main" or "home" tab.

- Tab Design: Relatively early in the development process, we came to the decision to separate each data tracked aspect (steps, sleep, and mood) into individual tabs within the app. After researching several different methods for implementing this type of multi-page app design, we came to the decision to use the ViewPager layout manager, an Android class that is "most often used in conjunction with Fragment, which is a convenient way to supply and manage the lifecycle of each page" (ViewPager). Each of the four tabs is implemented in its own class, and is a subclass of the Fragment class. In addition, the tabs share a single Android activity, which is the Android class that handles all user interaction with the app. The main activity of the application manages the tab layout and tells the application which tab view to display when a user selects a certain tab. The purpose of using fragments is to eliminate the need to create a new activity every time the user switches between tabs, thus increasing both the temporal and spatial efficiency of the application. Structurally, each fragment is comprised of two components. The first is an XML file that defines the visual layout of the fragment. The second is the logic of the fragment, which contains various functions defining certain actions to take at different times. Each time a certain fragment is switched to or away from, these functions are called in a particular order, all of which make up what is called the fragment's "lifecycle". For example, when a particular fragment is displayed on the screen, the function onCreateView() is called, which is generally where most of the initialization process occurs

Functional Requirements

| Use Case diagram:

Urban clap use case diagram
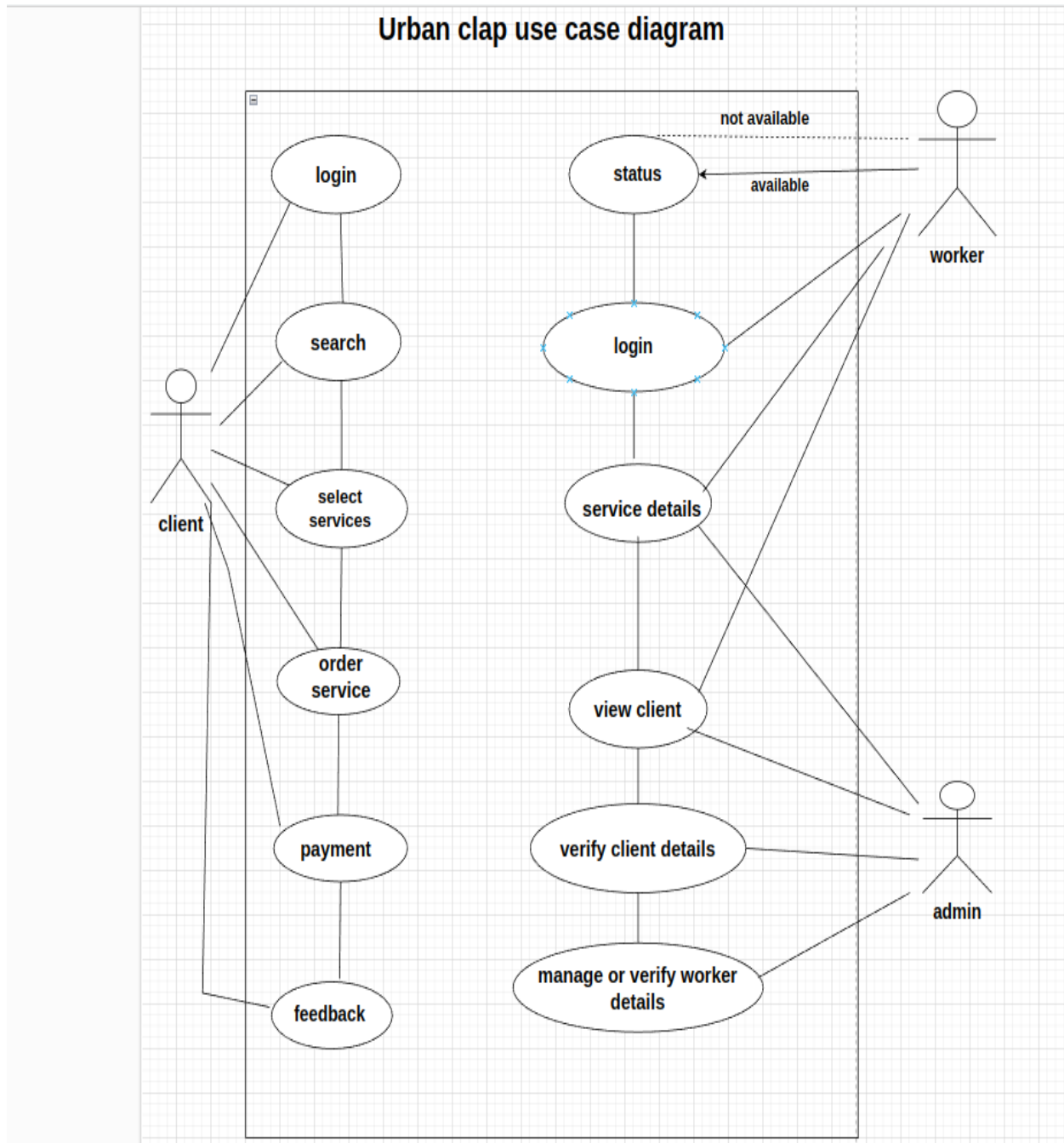
Non - Functional Requirements

Usability Requirement: The Easy Cleaning app must offer an intuitive and straightforward user interface that can be navigated without the need for tutorials. It should utilize multiple views for modularity and ease of use. The mobile application should adhere to usability standards, ensuring effectiveness, sophistication, and satisfaction. Design elements such as color, contrast, and layout should be carefully considered to cater to users of all abilities, including those with disabilities such as hearing impairment, low vision, or blindness. Sound implementation should provide an alternative to visual cues, with unnecessary sounds avoided and those that convey screen elements designed for clarity and efficiency. Overall, the app should be accessible and user-friendly for all individuals, regardless of their capabilities or disabilities.
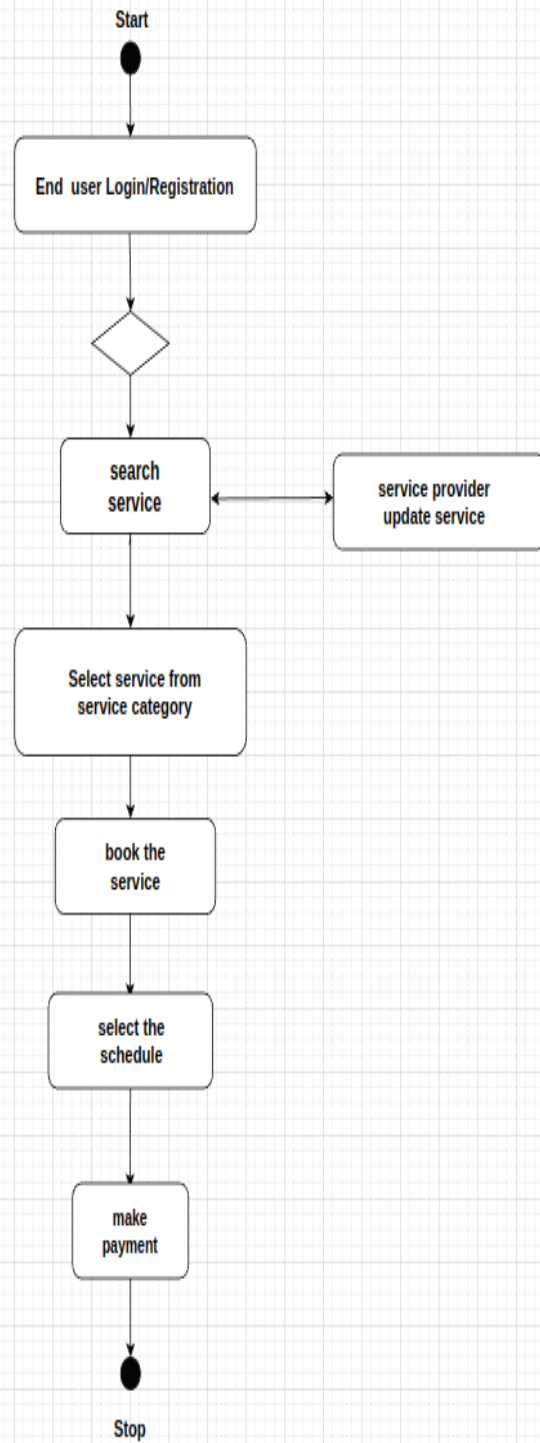
Data Model

n order to efficiently manage user data for Easy Cleaning, we opted to utilize a SQL database, which is inherently integrated into the Android operating system.

Given the app's focus on home maintenance services, our database primarily consists of tables for user profiles, service requests, and service history. The User Profile table stores essential user information such as name, contact details, and address. The Service Requests table records details of service requests made by users, including the type of service requested, preferred date and time, and any additional notes. Additionally, the Service History table maintains a record of completed service transactions, including details such as service type, service provider, date and time of service, and payment information. These tables are structured to facilitate efficient data retrieval and management within the app.

Upon receiving a service request from a user, the app creates an entry in the Service Requests table, capturing all relevant details. As service providers accept and complete these requests, entries are updated accordingly in the Service History table. The app utilizes SQL queries to insert, retrieve, and update data within the database, ensuring seamless communication between the user interface and the underlying data storage.

While the Google Fit API is not directly relevant to the core functionality of Easy Cleaning, the app may incorporate third-party integrations for additional features in future updates. Nonetheless, the SQL database serves as a robust and reliable solution for managing user and service-related data, contributing to the overall efficiency and effectiveness of the Easy Cleaning app.

Start

End user Login/Registration

search service → service provider update service

Select service from service category

book the service

select the schedule

make payment

Stop

Screen Shots

Login

Username

Password

Login

Sign Up

Sign Up

Phone No

Username

Password

Sign Up

Login

Easy
Cleaning

Service

Electrical Repairs

Your trusted partner for comprehensive electrical repair services.

Go to service

Beauty and Selfcare

Indulge in the luxury of self-care with Easy Cleaning

Go to service

Deep Cleaning

Revitalize your living space with our comprehensive home deep cleaning services.

Go to service

Overview   User   Login   Sign Up   **Vendors**   System

Vendors

Vendor 1	Vendor 2	Vendor 3

Your trusted partner for comprehensive electrical repair services.

Rs 5000.00 only

Indulge in the luxury of self-care with Easy Cleaning

Rs 7000.00 only

Revitalize your living space with our comprehensive home deep cleaning services.

Rs 5200.00 only

Services are paid according to the current state of the currency and tariff

Easy
Cleaning

Overview   User   Login   Sign Up   Vendors

Details
Contact: 000000000

Description: At Easy Cleaning, we are dedicated to capturing your special moments with precision and creativity. Whether it's a wedding, family gathering, or a corporate event, our team of experienced photographers is here to turn your memories into timeless works of art.
Rating: 4.5 / 5.0
Price: Rs 4000

Login

email

password

☐ Remember Me

Login

Register Here...
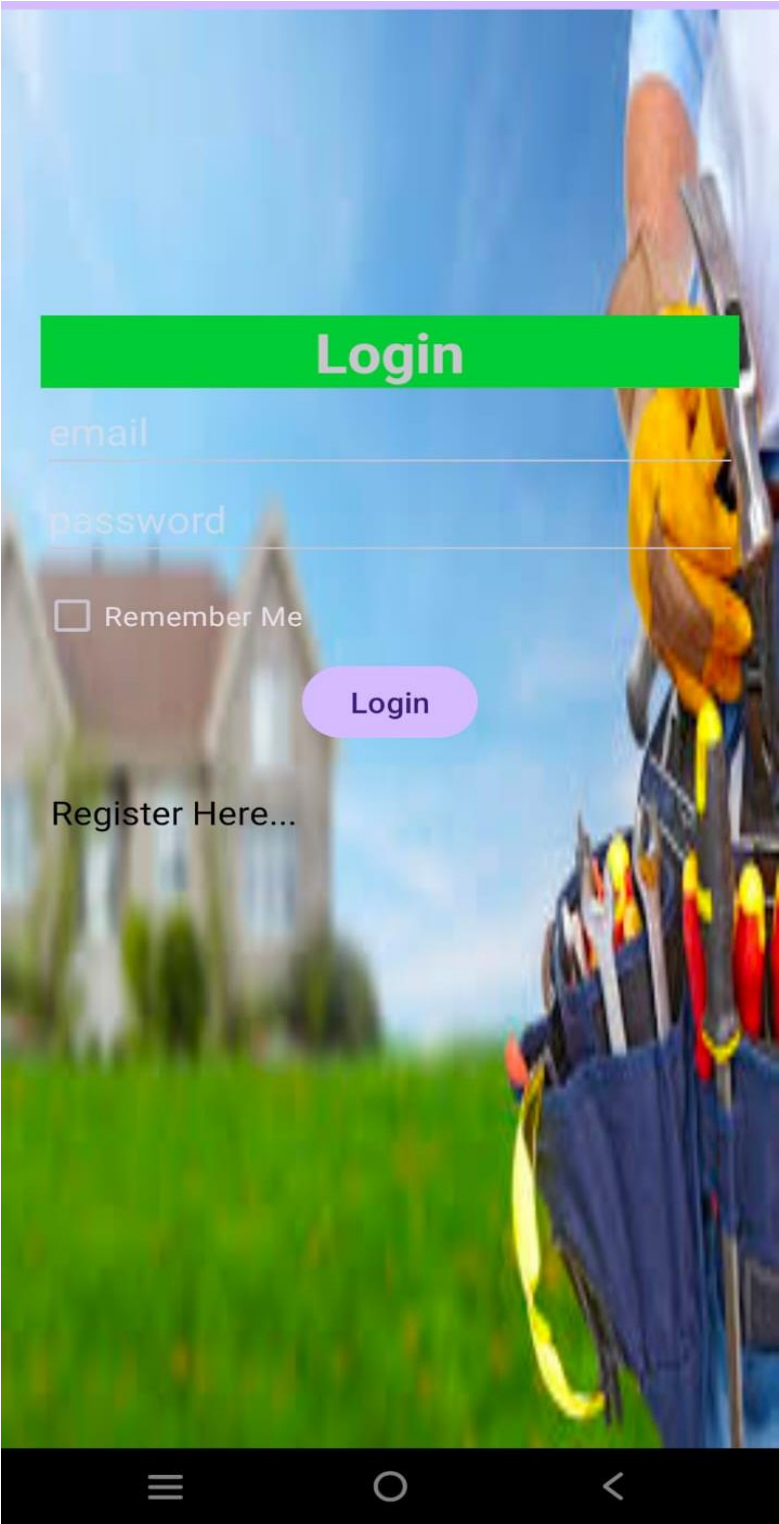
Registration

Book for Home Services....!

name

email

password

Register   Cancel

Home Services

Kitchen

Salon

Parlour

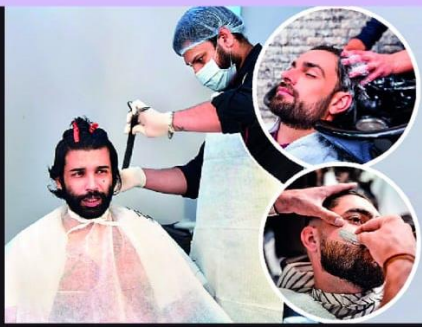Plumber

Service: MaidForHome
Day:Thur Date: 22/02/2024
Price: 1000

Book   Cancel

Service: WildHairs
Day:Son Date: 27/02/2024
Price: 500

Book   Cancel

Conclusion: The development of Easy Cleaning, our project designed to offer multiple services at home, marks a significant milestone in the realm of on-demand service platforms. Through meticulous planning, robust technology infrastructure, and a commitment to user satisfaction, we have endeavored to redefine convenience and efficiency in the domain of household services.

The journey of creating Easy Cleaning has been a testament to our dedication to innovation and customer-centricity. By leveraging modern technologies and incorporating user feedback at every step, we have strived to create a platform that seamlessly connects service providers with customers, offering a diverse range of services tailored to meet their needs.

Future Work : Expansion of Services: Beyond just cleaning, Easy Cleaning can expand its services to include a wide array of home-related tasks such as plumbing, electrician services, carpentry, gardening, appliance repair, and more. This expansion will cater to the diverse needs of homeowners, making Easy Cleaning a one-stop solution for household maintenance.

Mobile Application Enhancements: Continuously improving the mobile application interface and functionality can enhance user experience and engagement. This can include features such as real-time tracking of service providers, secure payment gateways, and seamless communication channels between customers and service providers.

By embracing these future-oriented strategies, Easy Cleaning can position itself as a leading provider of home services, catering to the evolving needs and preferences of its customers while staying ahead in a competitive market landscape.

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