

## Mobile Application for Household Services

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**Abstract** - This Mobile App is based on Household problems. This App will provide household services. The Household Solutions offering household and self-care services. Now, looking forward to the computerized database which will keep track of the customers who are interested in Booking any kind of Services from our Application. This application will ask for login for access our services. The login credentials will be stored in the database as a record for transactions to made by the customers.

**Key Words:** Flutter, Android Studio, GitHub, Firebase, household services.

### 1. INTRODUCTION

This project is like, just press one button and we are here to offer services at your doorstep. Firstly, Login screen will appear and we provide various way to login this application. This project is based on giving a small-scale business a greater reach in the modern market by providing an online platform to Book services. This app gives next level experiences to customers to use the services at their doorstep.

Now this can be your one-stop-destination for all things home. Household Solutions is far ahead in the race when it comes to offering home and self-care services. If you need a fitness trainer, you'll have one; need plumber in one click; need carpenter in one click; need Electrician in one click; Wants to eat tasty food but you are busy don't worry you can find a made in one click; throwing a party wasn't ever this easy because from decorator or organizers, they're all available; your home can get a makeover with an interior designer of your choice is a click away. All of this while you look for instant solutions for your daily chores.

In addition to providing home cleaning, repair and beauty services, Household Solutions can also get you a driver and a maid on demand. Moreover, if you own a vehicle, it can also provide cleaning services for it, making your life rather simple in just one click. Shifting homes is a pain and you're always looking for movers and packers, and that's when an app like Household Solutions solves your worries. Popular for providing instant help in times of crisis, this app provides your home and car services in addition to even getting your gadgets fixed. It helps that their professionals arrive on time and are quick at their job

### 2. LITERATURE SURVEY

This Mobile App is based on Household problems. This App will provide household services. The Household Solution offering household and self-care services. For user no need to find plumber, carpenter, electrician, trainer, they all are one click far from user. All of this while you look for instant solutions for your daily chores. Using this application, you can also check the reviews and price according their budget. In addition to providing home cleaning, repair and beauty services, Household Solutions can also get you a driver and a maid on demand.

The Vision of this project is to make easier life for people and additional feature of this Household Solution App is that if anyone who is fresher in this household job, they can also start a business through this app and get a good reviews and great salary

**Fig 1:** Services we Offred

#### Sevices

- Pest Control
- Plumber
- Carpenter
- Electricians
- Fitness Trainer
- Made
- Security and bodyguard

In this app we used a Google based platform for the need of a database which will enable us to keep track of the user information. This service provided by Google is known as Firebase which provides new developers and creators an advantage over the native MySQL database. Firebase is completely free and it is operated via the browser and is linked to your Google account.

Other majorly used software in the development process was Android Studio. Android Studio is mostly used for App development. Android Studio is an IDE. Our project was mostly written in the Android Studio IDE. Android Studio provides auto complete for the syntax which saves a lot of time and not needing to remember the syntax.

### 3. EXPERIMENTAL SETUP

This project comprises languages like Flutter, Dart. Further information about the development process is as follows:

- **Android Studio:** Android Studio provides a unified environment where you can build apps for Android Phones, Tablets, Android Wear, Android TV, and Android Auto. Structured code modules allow you to divide your project into units of functionality that you can independently build, test, and debug.
- **Adobe XD:** Adobe UX/UI is a vector-based user experience design tool for web apps and mobile apps, developed and published by Adobe Inc. It is available for macOS and Windows, although there are versions for iOS and Android to help preview the result of work directly on mobile devices.
- **Flutter:** Flutter is Google's portable UI toolkit for crafting beautiful, natively compiled applications for mobile, web, and desktop from a single codebase. Flutter works with existing code, is used by developers and organizations around the world, and is free and open source.
- **GitHub:** GitHub is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere. GitHub is the world's largest software development platform. It provides cloud storage for source code, supports all popular programming languages, and streamlines the iteration process.
- **Firebase:** Firebase is Google's mobile application development platform that helps you build, improve, and grow your app. The Firebase Realtime Database lets you build rich, collaborative applications by allowing secure access to the database directly from client-side code

- **Slack:** is by far the best team messaging app we've ever used, as it packs all of the chat tools we might ask for into an intuitive interface. Features such as message threads, highly customizable notifications, and robust search filters help tame the flood of communication. A variety of themes, custom emoji, and integrations with other apps allow you to bend the app to your workflow and preferences. We were hard-pressed to find any fault with Slack other than the fact that you need a paid plan to have unlimited message history (the free version limits message history to the most recent 10,000 messages, which may be enough for small teams starting out). And, well, Slack can be addictive. Its omnipresence can make maintaining a proper work-life balance difficult. But that's not Slack's fault, per se; it's just the nature of any well-made social app.

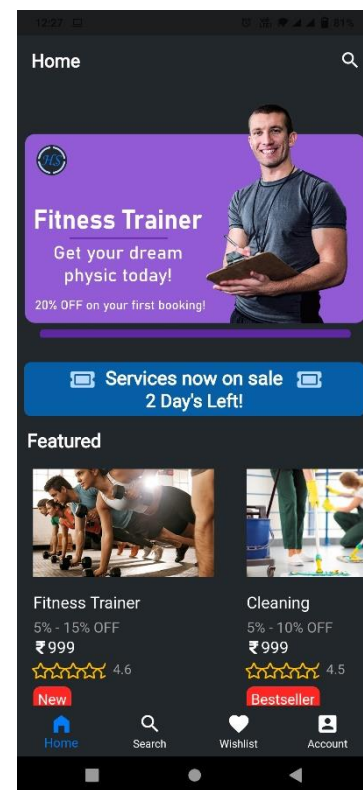


Fig 2: Home page of Application

### 4. PROJECT PROCEDURE AND FLOW

- The Project development starts from creating new Flutter project in Android Studio and add this project on GitHub.
- Flutter/Dart is a very modern programming language in case of Mobile Applications Development. It works as nervous system of our Application.
- After creating project, we started working on GUI which we build in Adobe XD / Inkscape.
- We finalize the design, my other group members started working logo and images.
- Now the Actual development is started.



- After the app's working and GUI is well developed, we needed a Database to store data of all the components and users.
- For this purpose, we used an open-source database application called Firebase.
- Firebase is a google based platform which gives the functions to the creators or the developers to keep the track of user information
- Log in/Sign up is handled via Firebase.
- Now, to develop this great idea we have to write clean code so we make folder to arrange the files.
- Under internal Screen folder we write code for Home Screen, Search Screen, Wishlist Screen, and Account Screen.
- Under the Register Folder we made Sign in and Sign-Up Screen.
- Under the Services folder we write code to join backend and frontend.
- Every day we publish our code and commit on GitHub.
- After development we test our app to check whether it runs perfectly or not.

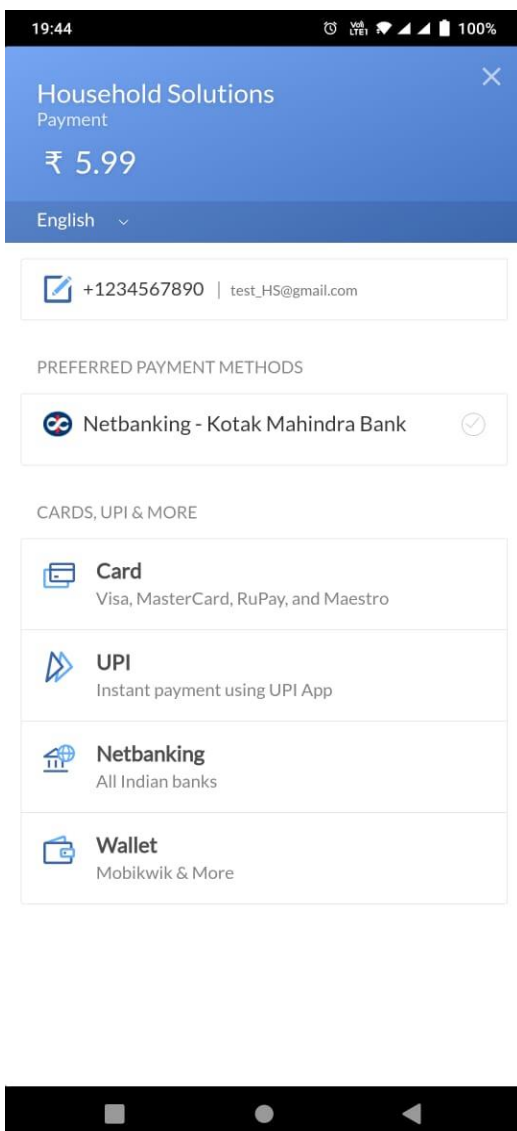


Fig 3: Payment Integration

### A. Flow of the Application

- The App starts with the Login Screen where users are asked to login or new users are requested to sign up.
- After the Login Screen comes the Home Screen which lists all the Services available by the owner of the business.
- If the customer wishes to book any services listed then just simply click on that particular service.
- Then service page will appear.
- To book service click on the book now button.
- Then payment screen will appear.
- If user wants to search any service, then there searches option also available.
- If user wants to logout from app, then just got to the account screen and click on log out button.

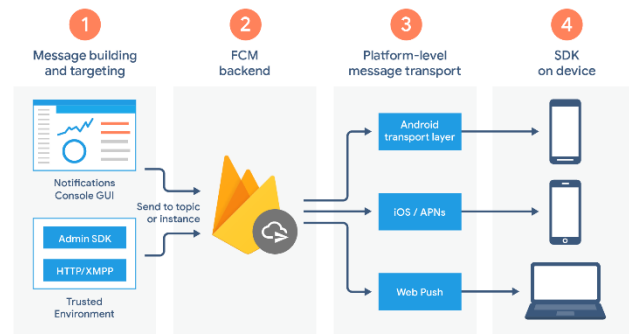


Fig 4: FCM Architectural Overview

### B. Algorithm:

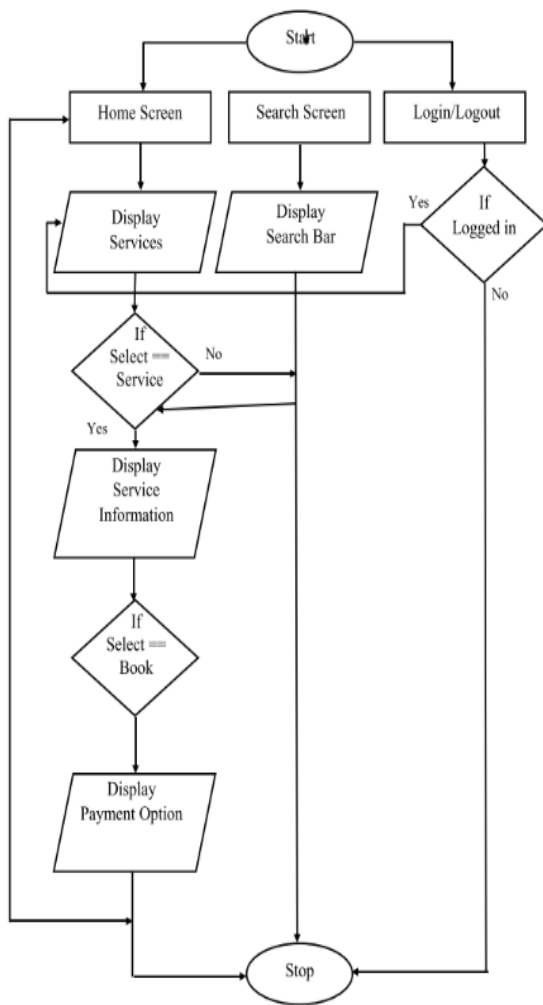
Step 1: Start i.e., Open the website

Step 2: Login into your account.

Step 3: Take a look at all products available on the website.

Step 4: Add your items as per your requirements in cart and to purchase click on order now.

Step 5: Stop.



**Fig 5: Flowchart of Household Solutions**

**REFERENCES**

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 [4] <https://www.adobe.com/in>

**5. Usage:**

The utilization of the mobile application is very simple and efficient as our application is based on minimalistic user interface which is very user friendly. The home screen consists of services details page, login page, Wishlist page, search page and account page. Which are self-explanatory.

**6. CONCLUSION:**

- Household Solution is a simple application used to book any household services.
- The work which is done manually previously is done automated in the provided system.
- This decreases almost all the disadvantages of manual system.
- This also minimizes the complexity of searching for service.