

**PROBLEM ID : SGH091**

**PROBLEM STATEMENT :** Shoppy is the android application used for home delivery of all type of products like grocery, cosmetics, medicines etc. Using shoppy you can buy any product from any local shop from your area.

## **SYNOPSIS ABSTRACT :**

With the help of Shoppy, users will be easily able to order groceries, medicines, cosmetics. Not only these users will also be able to order many other items from only one app.

When the first user will open the app, there will be a splash screen of the app for 2 seconds. If the user is new then, on the next screen app will ask for the important permissions. After accepting the permission app will ask for basic details of the user and most importantly the State, City, Pincode and Address. Users will be able to change his address later in this app. After filling all this details user will be moved to the main screen.

On the main screen, there will be a lot of options. Users can select what the user wants to order, whether the user wants to order groceries, Medicines OR Cosmetics. On top of the app, there will be a search bar from where users can search their products.

After searching their products they can add all the products to the cart. After adding all the products to the cart they can check out by either through online payment or they can also do cash on delivery. All of the previous purchases of the user will be saved in the history.

If the user is not satisfied with the delivery or by any of the service then the user can contact the app through one option of customer care where they can talk with the employees of the company or they can chat and resolve their issue. If there is a defective product in the delivery then the user can ask for a refund from the company. This is all about the user side.

Now moving to the other side of this app. There will be another app from where all the vendors will add products to the app and in this app, delivery boys can register their information and start working with the company. As soon as the vendors will add the products it will be added to the database and from this database, the user will be shown all the products.

## **Literature Review/Existing Innovation-technology to address related to your problem :**

There are many apps like grofers or big basket available in the market. But there are flaws in these apps . Grofers and Big Baskets are inventory led models that means they stock inventory. To get the order they give flat discounts and hope us to stick to the app. The lack of visibility into the inventory levels of the stores from where they pick up products from is probably the most harming limitation which directly impacts customer experience.

Grofers have their own delivery boys in different parts of the city. They also have tie-ups with grocery outlets in those areas. When you try to place an order from the app, based on your location, you only get a list of stores that Grofers have tied up with and are within a 4-5 km radius from your home. Once you place the order, the delivery boy goes to those stores, picks up the products and delivers to your home.

From a customer experience perspective, they are trying to make grocery purchases a hassle-free experience.

Sounds simple. Yes. Fairly simple from a business model point of view and their app is quite convenient and easy to use.

So, what makes it difficult.

More often you would notice that the products that you have ordered are not available.

This is a very frequent issue with them and if you have ordered from them multiple times, you would notice this quite often.

Why does this happen? Because while the order is being placed Grofers doesn't know if the 'Coke Zero 600 ml' that you have ordered is actually available at the store or not. Only when the delivery boys go to the store they know about it. And in most cases, they will call you and ask if it is okay to deliver without that product or ask for a substitute product. If the customer is insistent, then the delivery boy will try to get the same product from a nearby store from which Grofers may not really have a tie-up with. All in all, a poor experience for the customer.

Lack of product choices.

Grofers don't deliver anything that requires a cold supply chain. They may have a few things here and there but fresh milk (not the tetra pack ones) is one thing which they do not deliver. So, from a category perspective, they have dairy products but not fresh milk. And that is really irritating.

Most Indian homes order milk as part of their grocery list. But the availability of milk is also subject to a lot of fluctuation throughout the day. Most stores would run out of their milk stock by evenings.

## **What would be your approach to solve the problem ?**

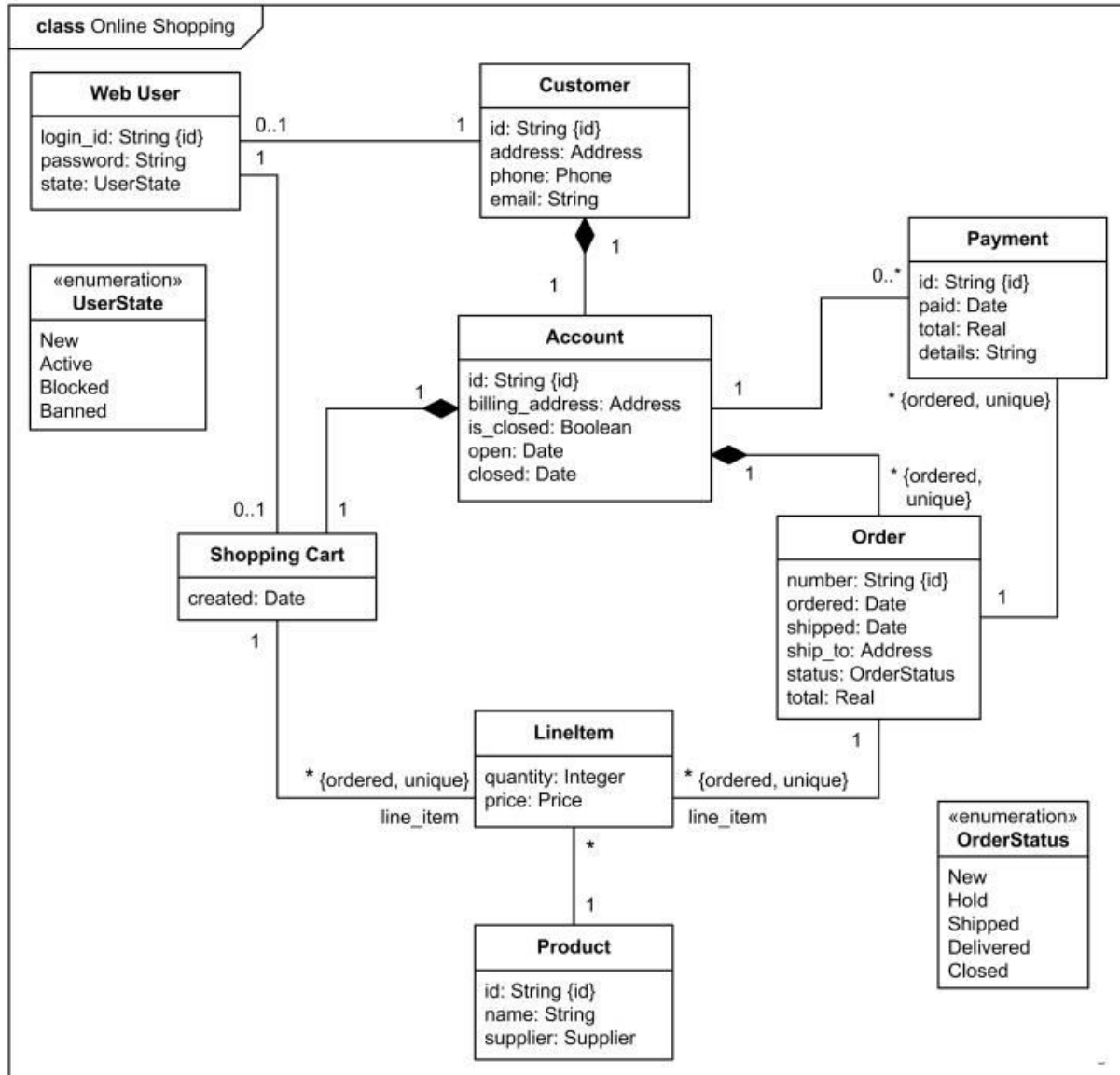
Selecting the right tools and technologies . As we have used firebase as our database and for all the backend stuff it will be considered best for the app.

Why Firebase?

Firebase can handle everything easily. Be it any work. Let it be related to database OR sending notification OR the authentication. Firebase has all the features and firebase is fast to set up in any android app.

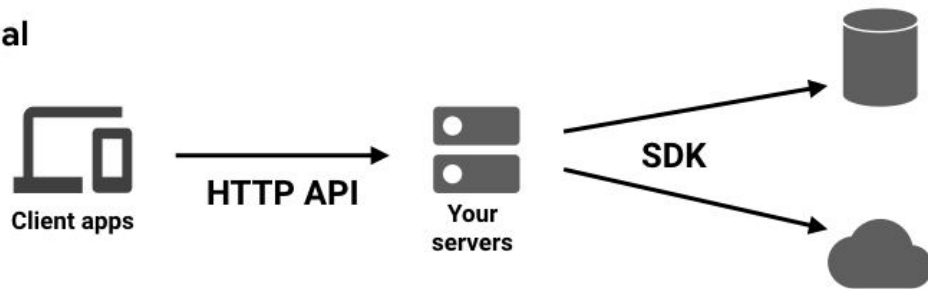
After selecting the right tools and technologies, the UI of the app should be very great. No user would like to use an app that is not great and not user-friendly. Designing UI in such a way that any user can use the app easily.

# ROAD MAP 1 :

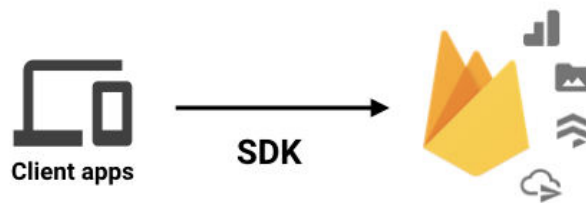


# ROAD MAP 2

## Traditional



## Firebase



## Tools and technologies to be used to solve the problem :

Android Studio - Android Studio is the official integrated development environment (IDE) for Android application development .

JAVA - As a backend language

XML - As a frontend Language

PHP - For some backend stuff

HTML and CSS - For designing some frontend

JAVASCRIPT - For showing some popups

MYSQL - As a database for saving some small information

Firebase - Firebase provides a realtime database and backend as a service. The service provides application developers an API that allows application data to be synchronized across clients and stored on Firebase's cloud.

Adobe XD : For designing UI's

## Challenges/Risk in implementing your Final prototype :

- ➔ One of the biggest challenges in developing this application will be in designing database for this application and in designing the UI for the app . Every app is depend on UI and its backend .

Below are some challenges :

- ➔ Finding the right products to sell

- ➔ Attracting the perfect customer
- ➔ Generating targeted traffic
- ➔ Capturing quality leads
- ➔ Nurturing the ideal prospects
- ➔ Converting shoppers into paying customers
- ➔ Retaining customers
- ➔ Achieving profitable long-term growth
- ➔ Choosing the right technology

## Possible outcome of your work :

With the help of Shoppy, users will be easily able to order groceries, medicines, cosmetics. Not only these users will also be able to order many other items from only one app.

Shoppy will try to deliver the best and user friendly environment android application.

Whose any naive user can also get maximum benefit by easily accessing its various features.

People all over city can use Shoppy android application with the help of minor configuration and database changes.

One can buy our android application to get its maximum benefit by minimum cost and can save lot of efforts and time.

Thus society can get maximum benefit of Shoppy android applicaion.

Shoppy will try to deliver the best and user friendly environment android application.

Whose any naive user can also get maximum benefit by easily accessing its various features. People all over city can use Shoppy android application with the help of minor configuration and database changes.

One can buy our android application to get its maximum benefit by minimum cost and can save lot of efforts and time. People can get rid out of long queues.

## **Work done till date :**

The main backend for this app is firebase database .

Till date we have successfully connected our android app with the firebase account .

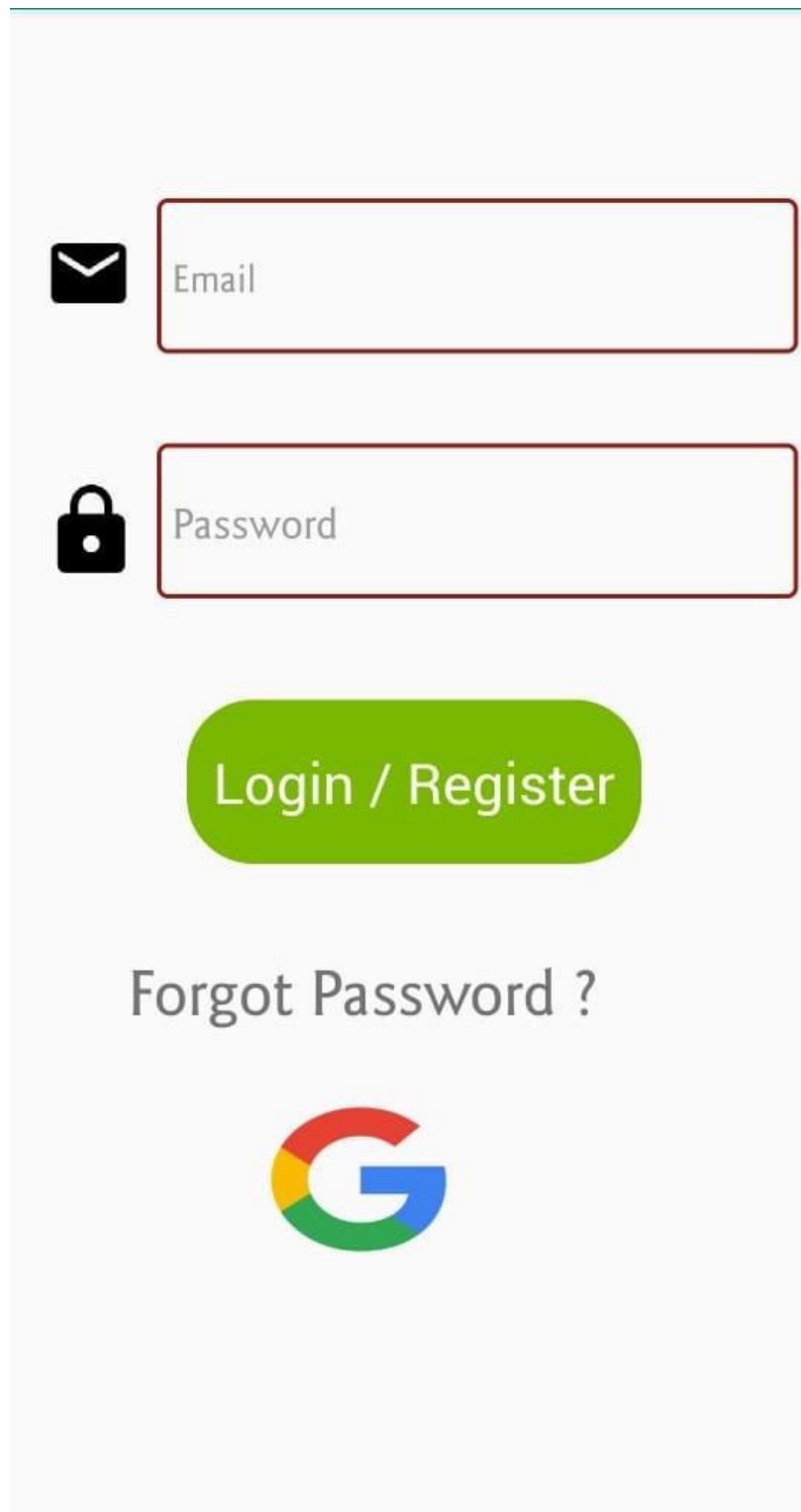
We have also successfully designed the authentication system for the app with the help of email and password .

So users only need email and password to login to this app . More changes will be done to the app related with the phone number authentication .

We have also designed the main activity and the profile activity for the user .

On the other side we have also developed the authentication system for the retailers and the delivery boys .

## IMAGE 1 OF THE SOLUTION:




A login and registration form interface. It features two input fields: one for 'Email' with an envelope icon and one for 'Password' with a lock icon. Below these is a green button labeled 'Login / Register'. Under the button is a link that says 'Forgot Password ?'. At the bottom is the Google logo.

Email

Password

Login / Register

[Forgot Password ?](#)





## IMAGE 2 OF THE SOLUTION :

