Subject: CSEE 5590 – Web/Mobile Programming
Document Scope: Project increment-1
Team #: 8

Web/Mobile Programming

Project increment - 1

1. Group Information:

Team # : 8

Team Members:

Floyd Liam- 8

Koushik Katakam – 13

Saitejaswi Koppuravuri – 15

2. Project Goals and Objective:

2.1 Motivation:

Fitness and nutrition are the key factors that a human's life is based on. In order to maintain a healthy lifestyle every individual should take care of the food intake like no of calories they need to take on daily basis, food intake based on age, time to be healthy. Our project aims on building an application where the user gets the information based on the diet plan, they require.

2.2 Objective:

The main objective of this project is to plan the diet for the user for the whole week based on number of calories the user needs to take for the week, number of servings and all the details based on the diet. Along with the diet plan, we would like to extend the project by calculating the BMI of the user and displaying the nearby pharmacies.

2.3 Significance/Uniqueness:

There are many websites as of now providing the health tips for the user diet, diet to be followed based on their BMI, but they lack in planning the user's diet based on the number of calories, servings that the user need to intake, provide weekly plan for their diet which would be the unique feature of the project.

2.4 System Features:

- User can be able to login/ signup into the system if they are first time user.
- User will be provided with various login options like OAuth login, login with username and password.
- Suggesting user, the best diet plan within the calories the user needs to take.
- Navigating them to the nearest pharmacies.

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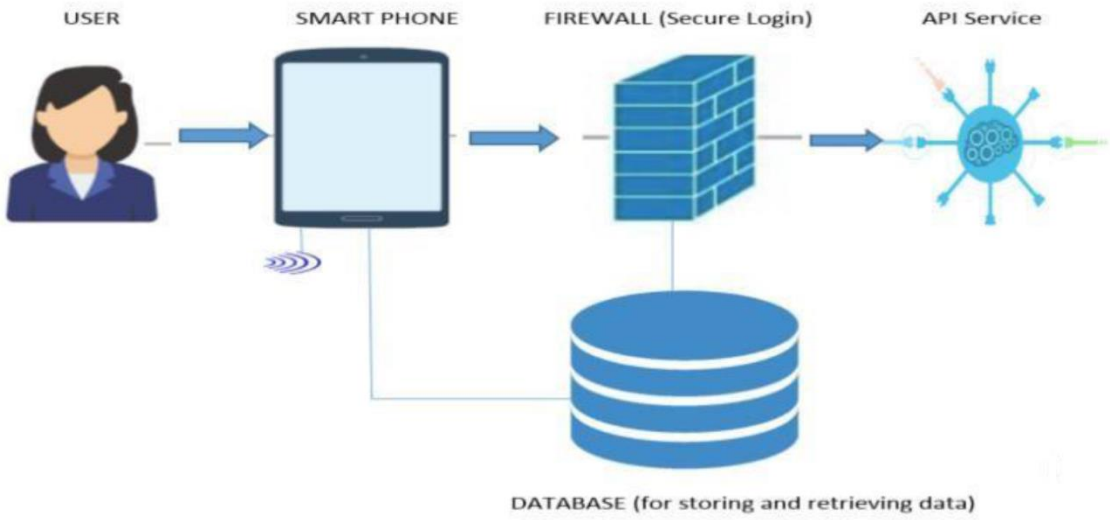
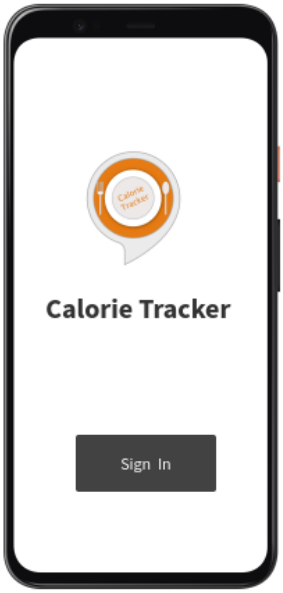
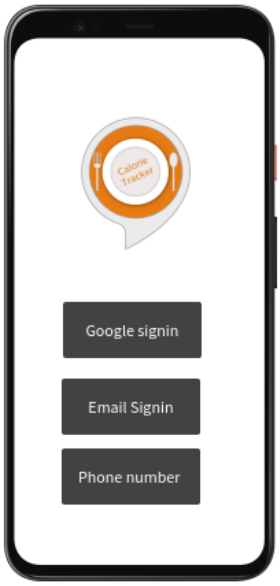
Architecture:



Demo screens:

The wireframes of the increment 1 are as follows:





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3.Improvement from the proposal stage

From the proposal we have implemented the following:

- Initially, we have implemented some of the draft about the project increment.
- For this increment we have implemented login feature for our application.
- We have implemented login using 3 methods namely social auth like Google, manual setup using email and login using phone number.
- We have also investigated on the API required for the project. So, finally we have come across 2 API's required.
    - Spoonaccular API for diet plan
    - GoodRx API for the pharmacy details

Login Implementation:

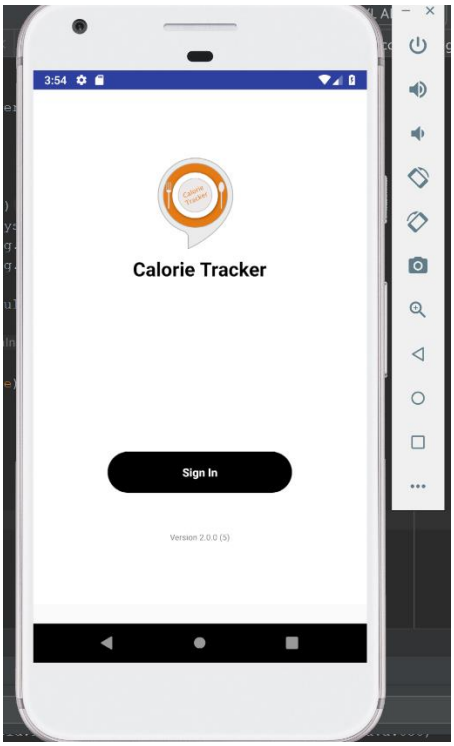
For logging in the user is given three options namely the Google sign in, manual user sign in, login using phone number.

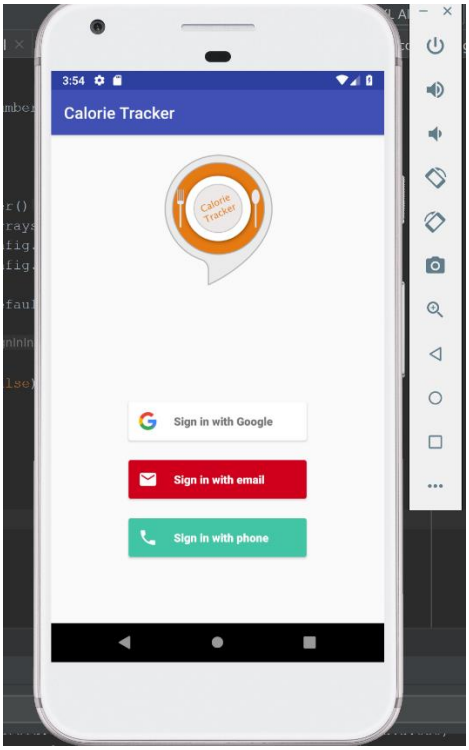
Libraries Used / Dependencies:

- Firebase Auth UI for social login.

When the user logs in the details are stored in Firebase hooked up to the project. And when the user opts to login to the application using phone number, an OTP is being sent to validate the mobile number. Unfortunately, this cannot be run on emulator but can be physically tested on a device.

Output screens:





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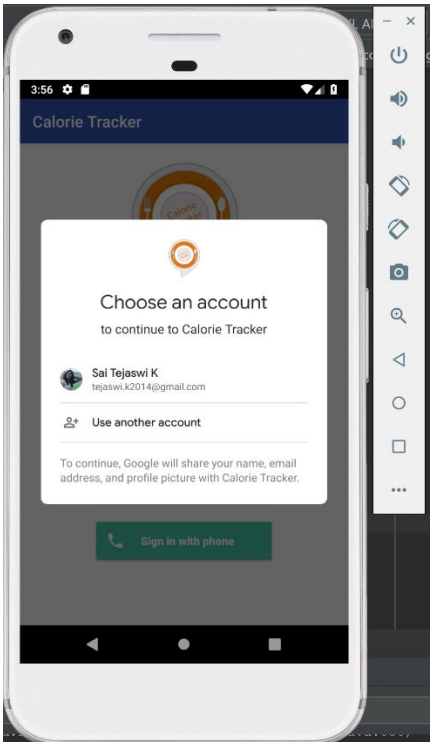
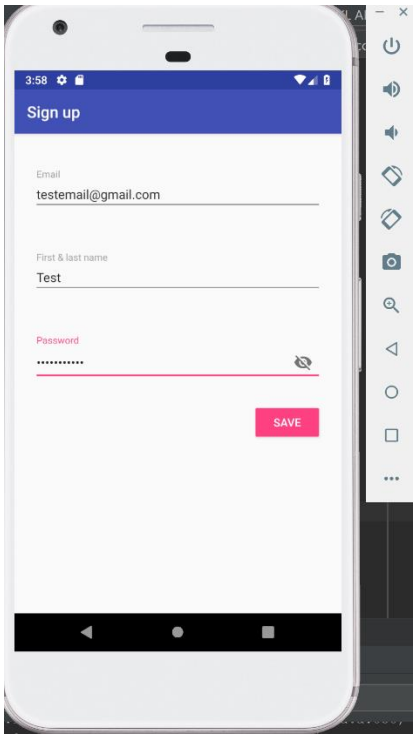
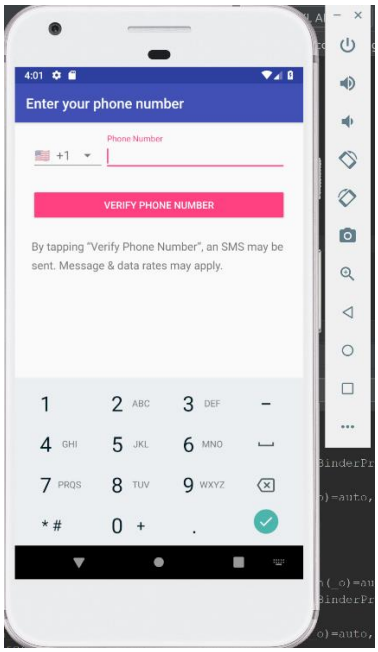
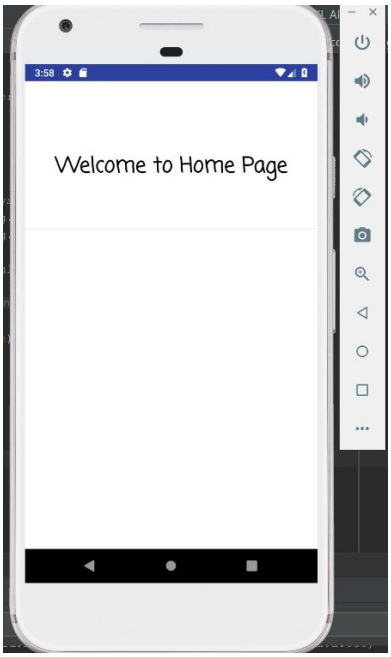
When the user clicks on google signin, it asks the user to choose a google account and the manual setup takes the name and password and stores them in Firebase.





When the user logs in, redirects to Home Screen which is to be designed for next increment.





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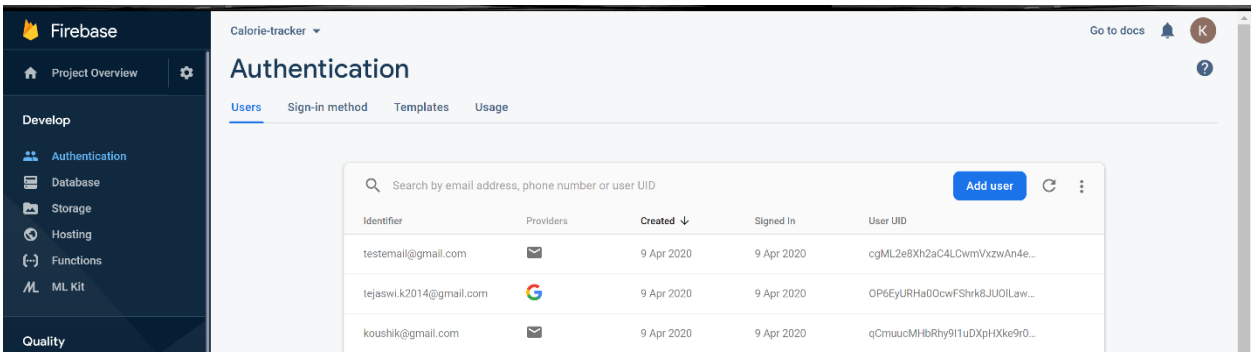
The storage in firebase is as follows:



4. Github link for the project:

https://github.com/SaitejaswiK/CSEE5590_Web-Mobile_project

5. Contribution:

Investigation about tech stack and API: Floyd

Login implementation using Google signin and mail: Koushik

Login implementation using mobile and integration: Saitejaswi.

6. Bibliography:

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