
Trip Planner System

Component-Based Software Development

Project-2020

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component that can be reused in an application.:

<https://github.com/beshoymikhail/country-component>

Introduction:

- There is nothing amazing like traveling, seeing a new place for the first time or returning to a favorite place.
- People of all ages, from all countries, love to travel and explore many different places. This Travel suggestion application is a specialized search engine used to find optimal means of travelling between two or more given locations, sometimes using more than one transport mode

Motivation:

- The importance of travelling
- Our role to help people to travel fast.
- Preventing the exploitation of people.

Why this Project:

- Saves time and finding places easily.
- Saves money and prevent cheating.
- Ease of search and find trips first.
- Help us to book ticket for travelling easily.

Objective:

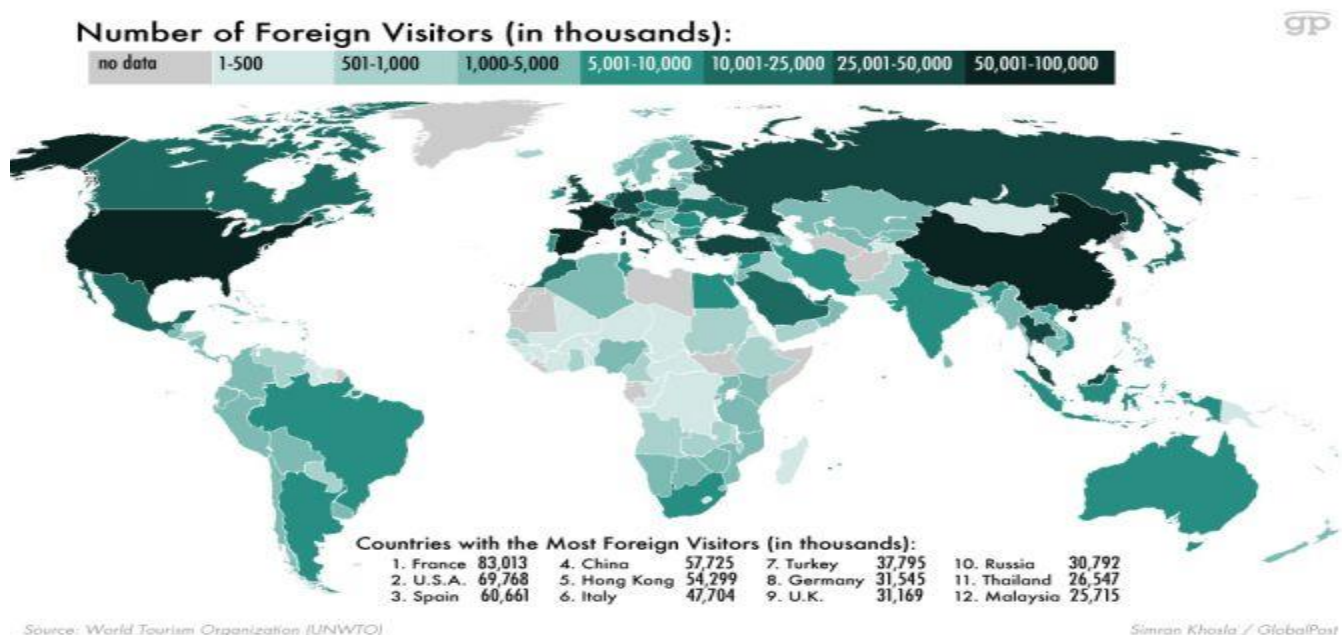
- This Travel suggestion application is a specialized search engine used to find optimal means of travelling between two or more given locations, sometimes using more than one transport mode.
- Searches may be optimized on different criteria, on days, time, etc.
- This android application is basically a travel guide, here we can plan a travel plan on the basis of time and days.

Problem statement:

It's difficult to find best ticket and best destination if you want to travel and there's a lot of people travel now days all over the world.

In the current system, the customer must contact different agencies to find place details and book tickets. This often takes a lot of time and effort.

The client may not obtain the required information from these offices and the client is often misleading. It is difficult for a customer to plan and implement a particular flight correctly.



Project Design:

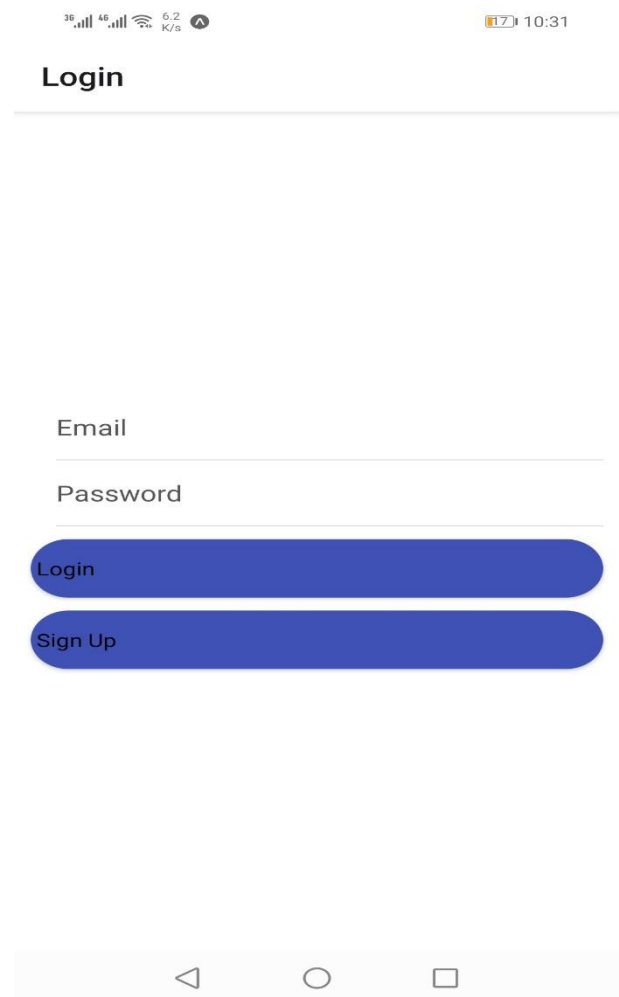
Every page (activity) in react native is counted as a component and that component is built up using other smaller components.

Login component:

User can login, signup

The data is saved in Realtime Database (Firebase).

If you already signed in the app will open directly in the home screen.



A mobile app login screen mockup. At the top, there is a status bar with signal strength, 4G LTE, 6.2 K/s, and a battery icon at 17% with the time 10:31. Below the status bar, the word "Login" is displayed in bold black text. A horizontal line separates the title from the input fields. There are two input fields: "Email" and "Password", each with a light gray border. Below the "Password" field, there are two blue buttons with white text: "Login" and "Sign Up". At the bottom of the screen, there is a white navigation bar with three icons: a back arrow, a circle, and a square.

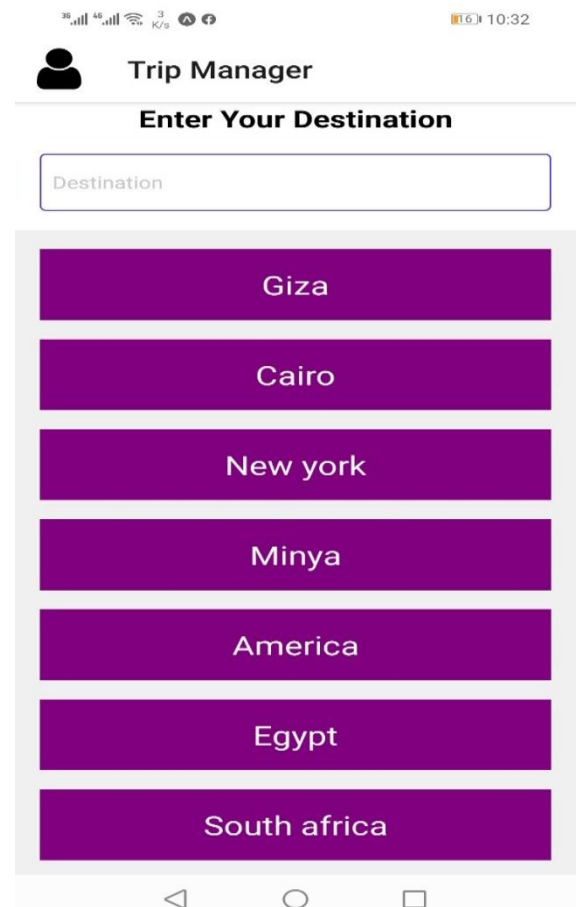
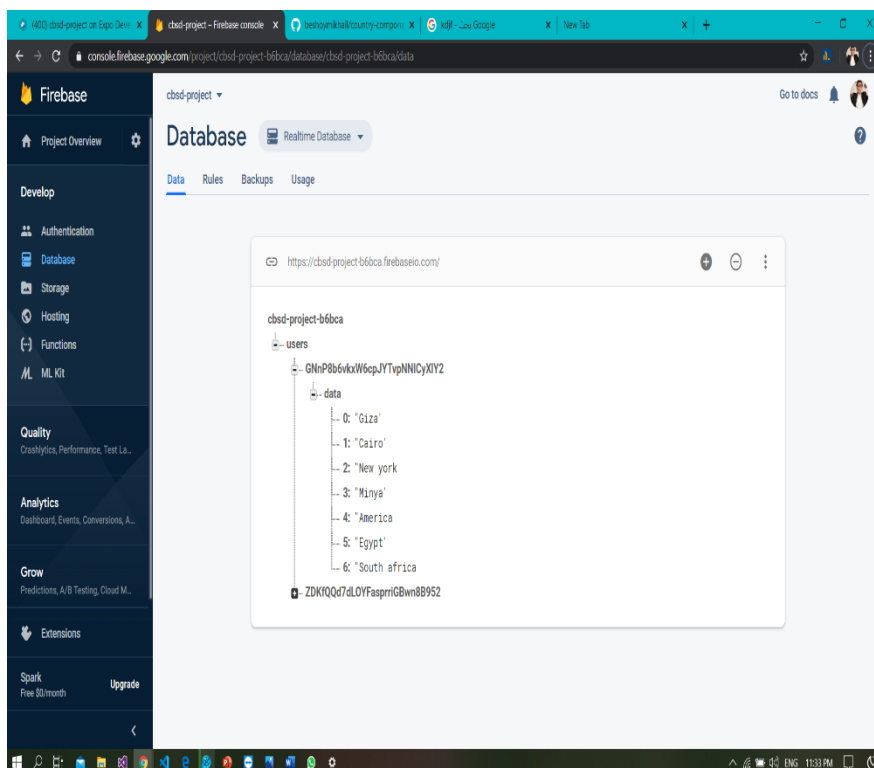
Country component:

When user click on destination user will be redirected to the country page that pin this country on the map that we get from react-native-maps library that uses google maps API. There is an API used to get the coordination of the country and we pass the coordinates to the Map View component. And this component we upload it to GitHub.



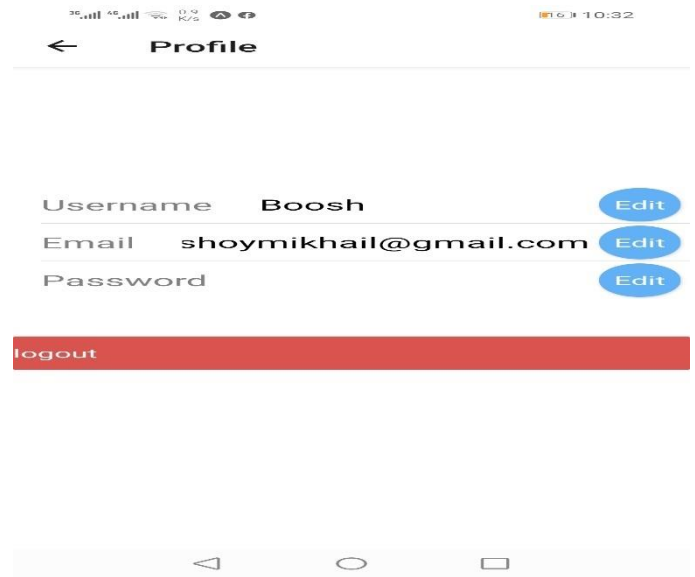
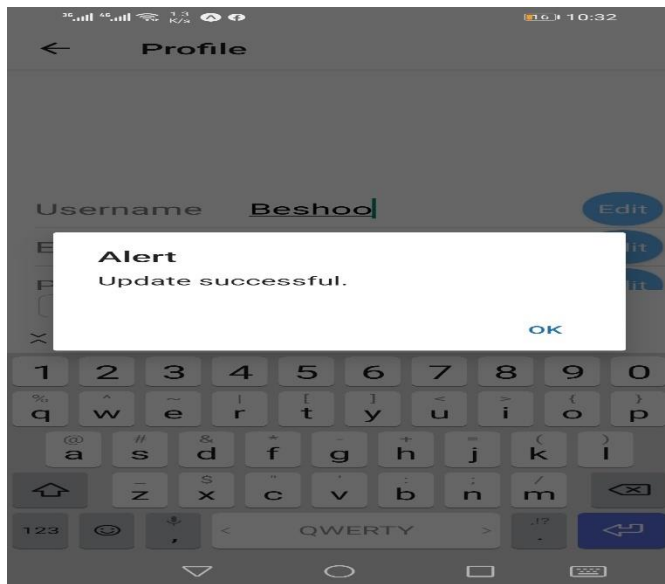
Destination component:

This is the home page and display the destination that the user chooses to go before and u can display the location by click on the destination .



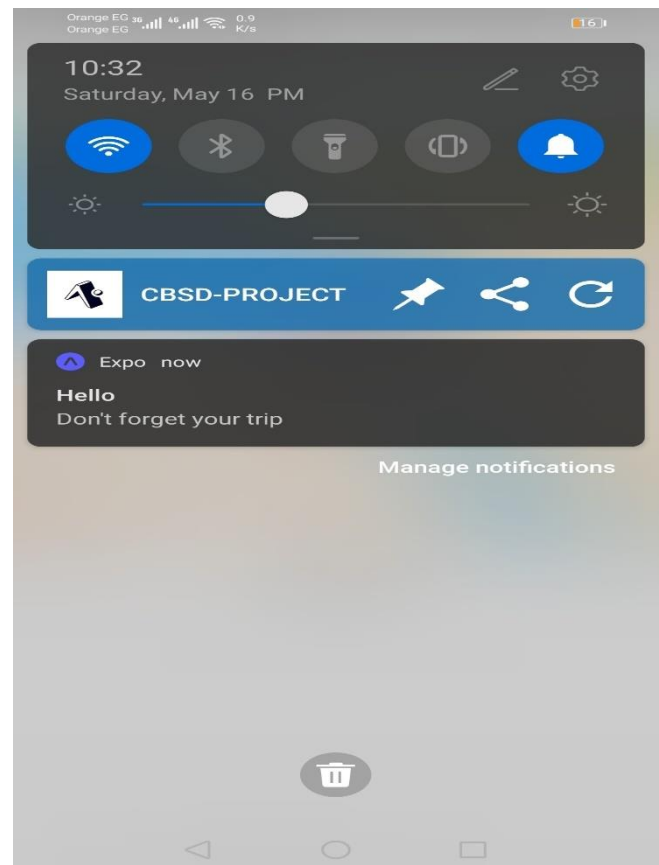
Profile component:

We save the user: username, email and password.
The user could edit any of them and also can delete his account.



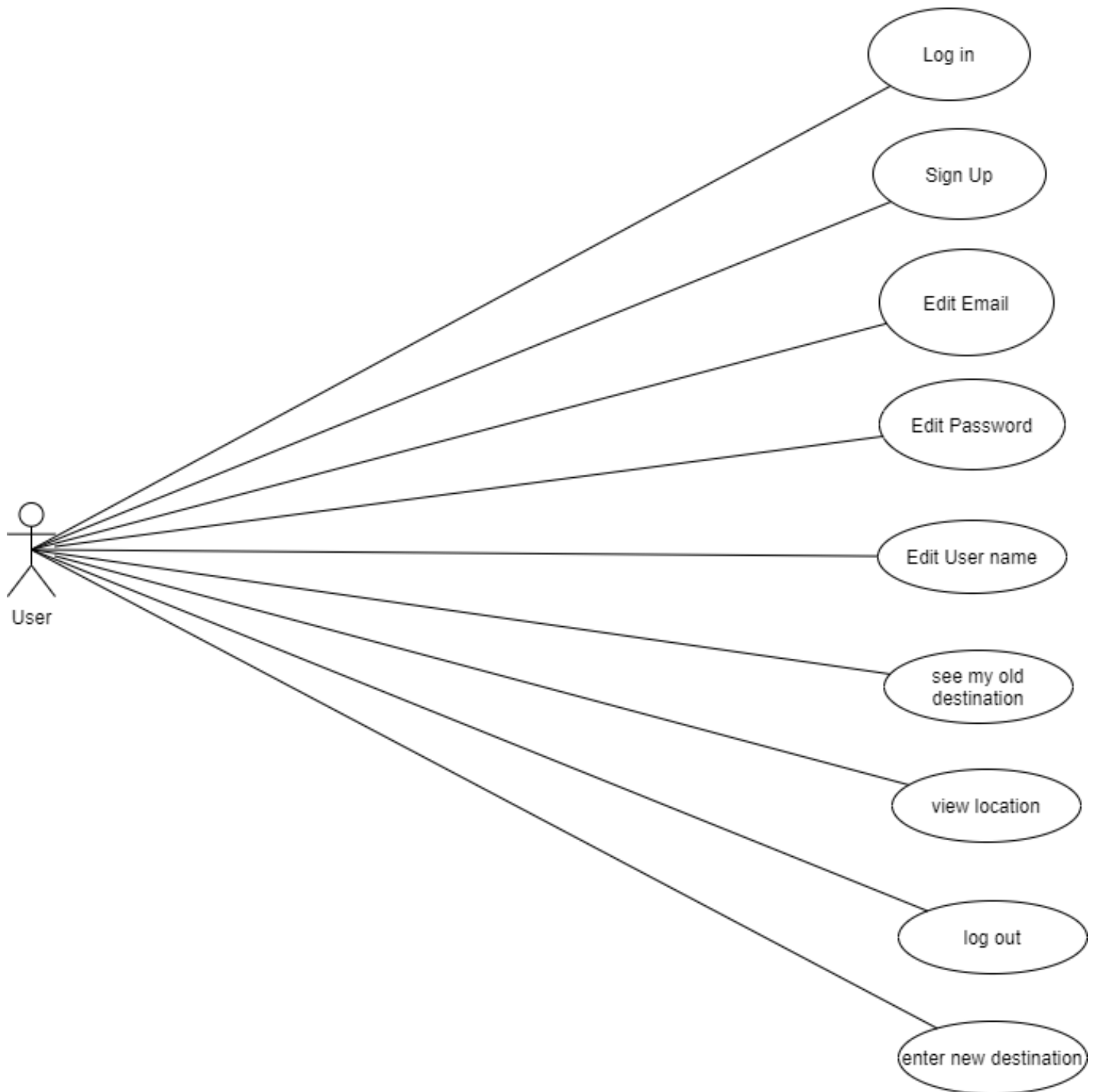
Notification:

User will be notified to don't forget the trip
And this will push to user.

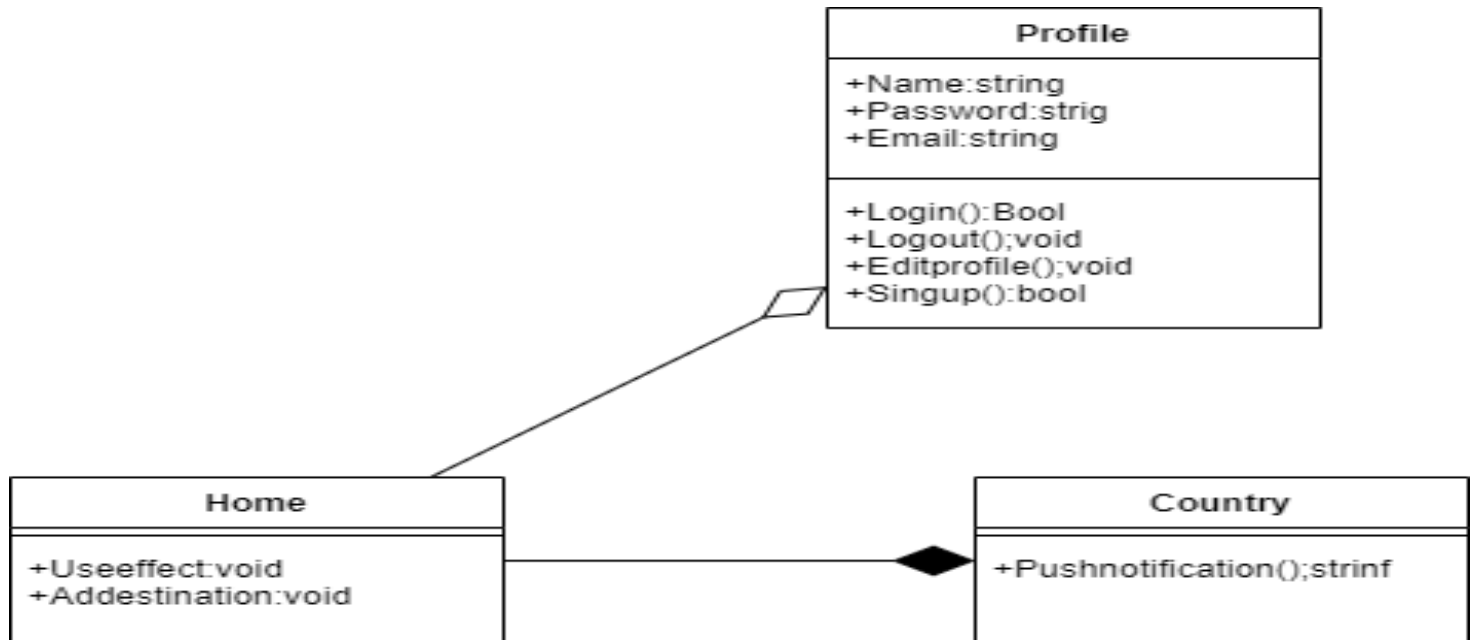


UMLS:

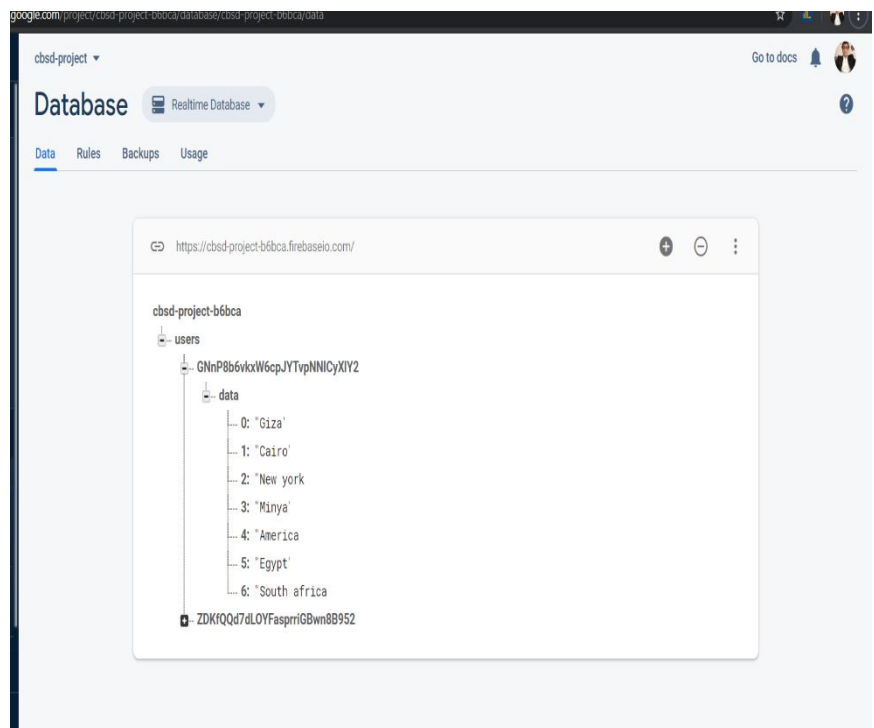
Use Case Diagram:



Class Diagram:



Database schema:



Who did what?!

Name	Task
Ahmed Anwar Ahmed	Introduction, who did what Log in (Component)
Ibrahim Ahmed Ibrahim	Objective, refernces Sin up (Component)
Beshoy Mikhail Abdelrazek	Motivation UMLS. Profile (Component)
Mohamed Gamal Abdelmohdy	Problem statement Country (Component)
Amr Abdallah Mohamed	Why this project Home (Component).

References:

React-native to developing: <https://reactnative.dev/docs/getting-started>

Map View in react native :

<https://github.com/react-native-community/react-native-maps>

API to get countries coordinates: <https://opencagedata.com/api>

Expo-permissions notification: <https://docs.expo.io/versions/latest/sdk/permissions/>

Another links:

<https://stackoverflow.com/>

<https://www.geeksforgeeks.org/>