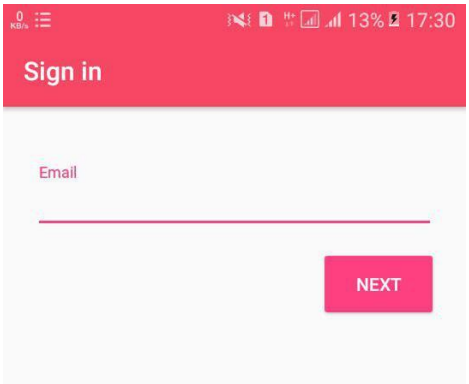
NOTE: The definitions of the functions of our application are written as comments in the source codes. The report consists of logics and how it works.

REPORT

Meal Order Application Project

We have used **Firebase Authentication** for the sign in section of our application.

When a user starts the app, sign in page appears on the screen.



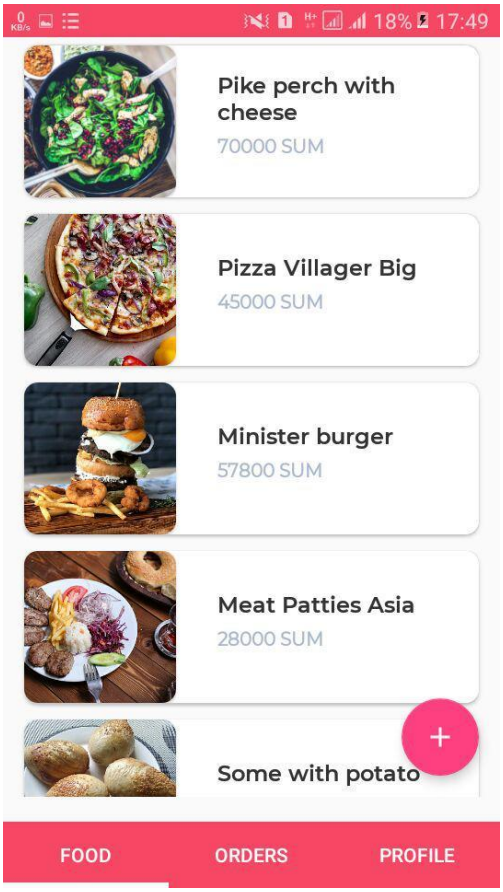
Then, the user writes his email address to the blank. Here will be 3 scenarios:

1. If the email address is admin@gmail.com, it will ask the password(admin12345) of the admin which then starts the activity of the admin.

2. If the email address is something in the firebase other than admin@gmail.com, firebase accepts them as already registered clients. Then, the client has to write his password to enter the app.
3. If it is the first time that a client is using the app, he or she must register themselves by writing their first & last name, their new passwords in the application. The data of registered clients will be saved in Firebase.

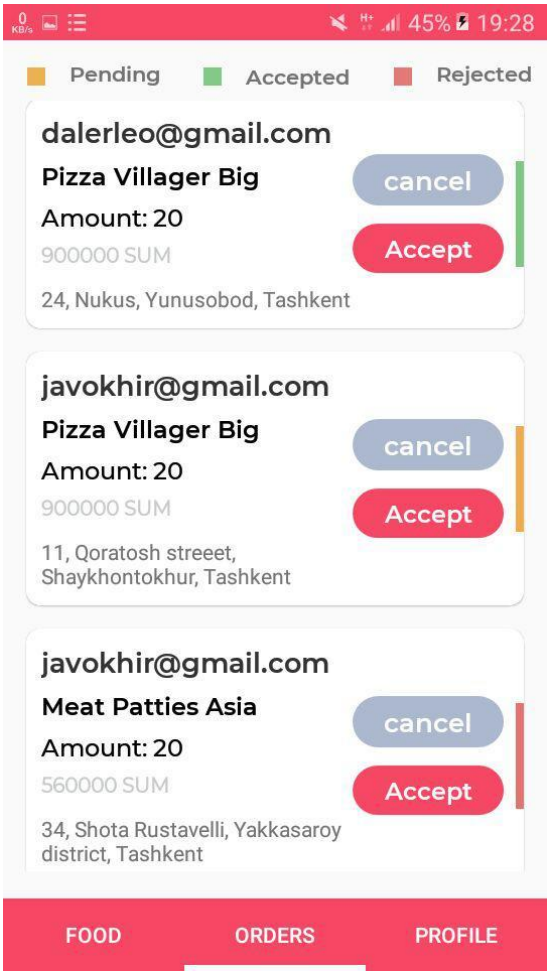
The functions of firebase authentication are defined on **LoginActivity.class**. The information about users are saved as a json file on firebase.

Admin Side. If you enter as an admin to the app, you can see the following:

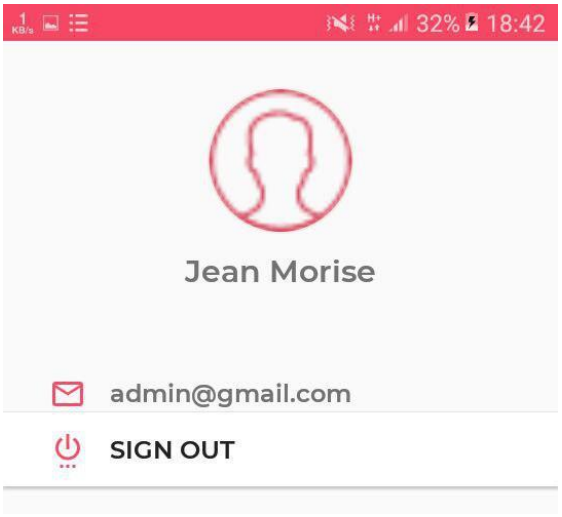


This is the admin activity layout which includes tablayout at the bottom, floating action button just above the tablayout and three fragments: FOOD, ORDERS, PROFILE. The inserted food card views appear in the FOOD fragment.

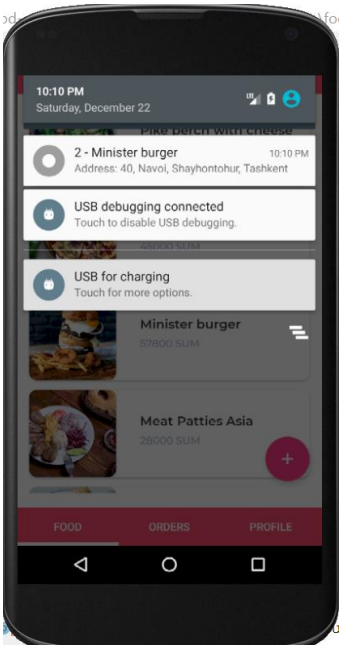
All clients' orders are on ORDERS fragment. From there, admin can accept or reject the order. If the admin accepts the order the green line appears the right side of a meal card view. The red one means rejected meals. And yellow one means neither accepted nor rejected. Food fragment is implemented in **TabOrder class**. Ordered meal card views by clients are gotten from firebase.



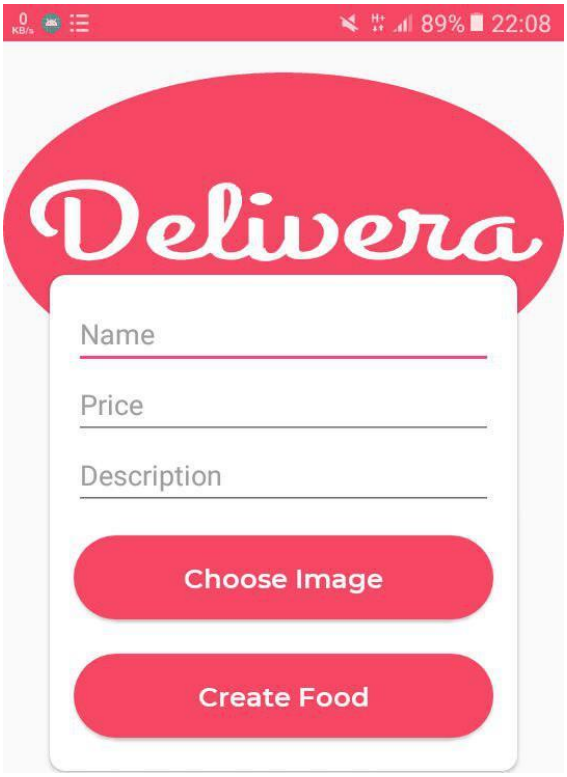
The admin information can be found in PROFILE fragment.

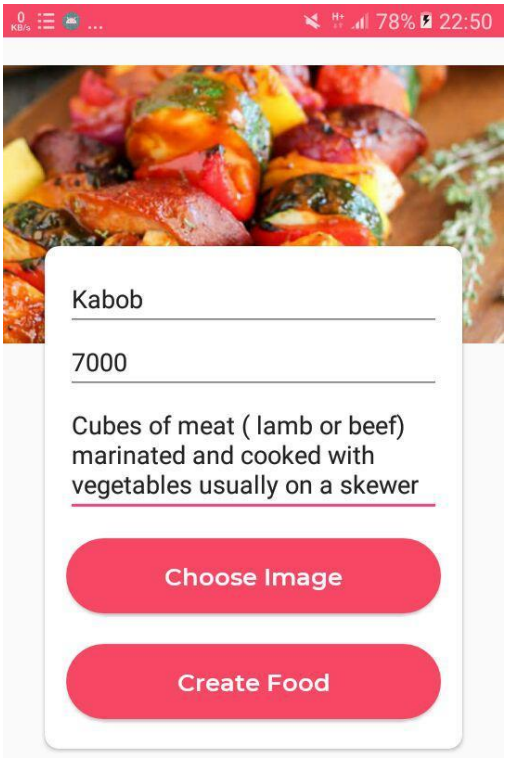


If a client makes an order a meal, notification will come with name and amount of the meal and address of the client.

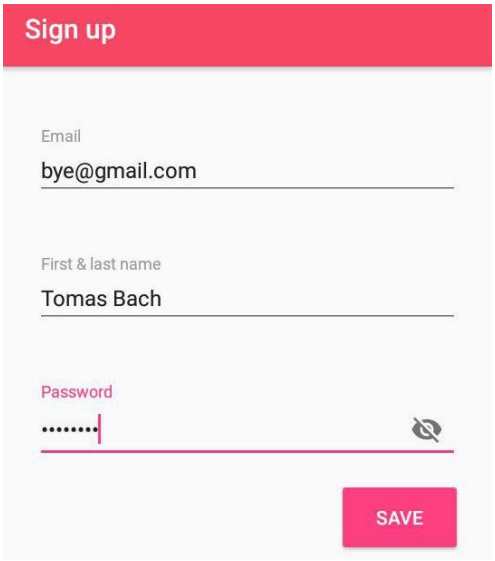


Floating action button help us to create and insert a new meal to the food fragment. It is implemented in FoodCreate class. It is getting the information about a meal and writing to json file.



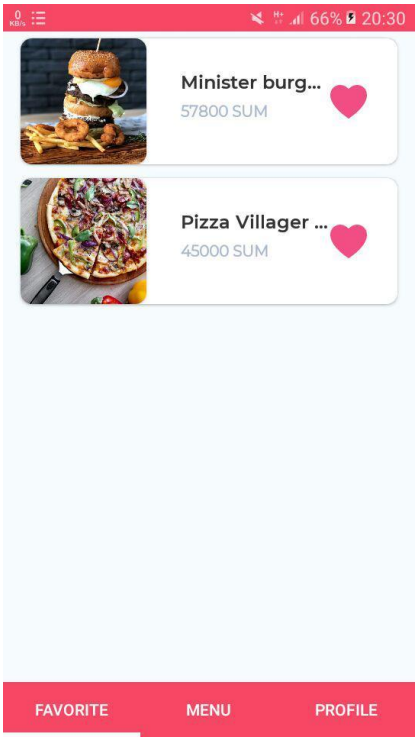


Client Side. Let's say a client is going to order a meal. If this is the first time, he is directed to sign up page after writing his email. Then he creates his account by filling name, password fields and saves to the firebase.

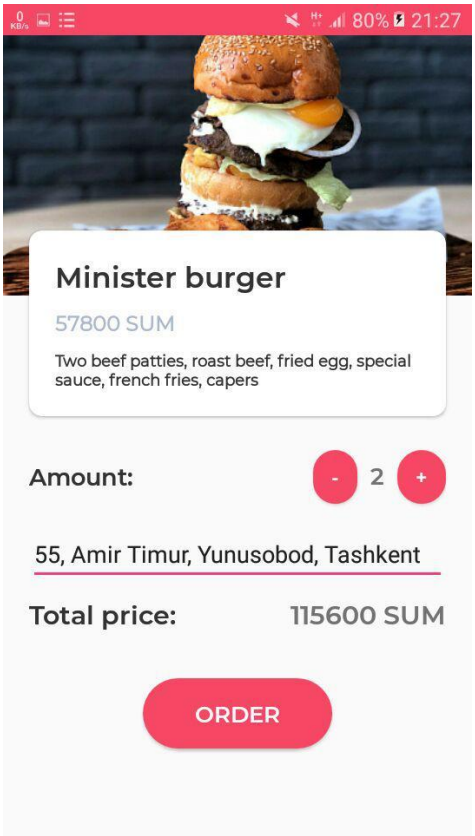


Then, he sees the tablayout at the bottom of the screen. There are three options: Favorite, Menu and Profile.

In the **favorite** page, you can see the favorite meals that the client has marked.

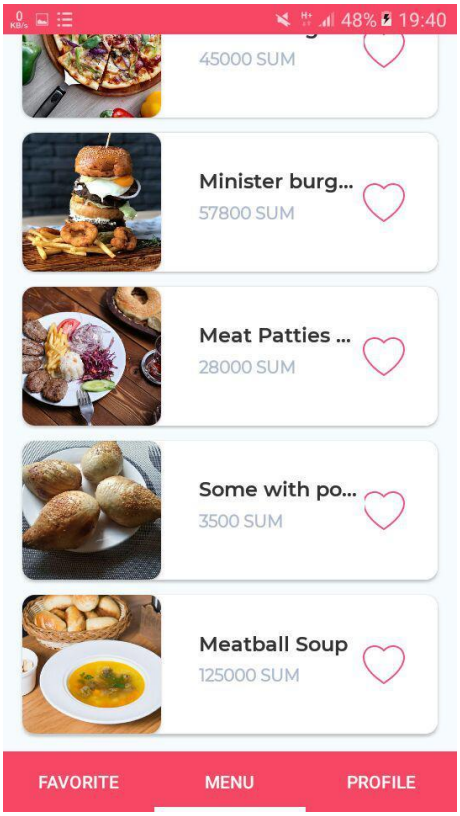


By clicking a meal card view, you can order a meal. You can see food name, price, description, amount how many you are going to order, address of the client, and total price of your food. After pressing ORDER button, successfully ordered toast appears on the screen.

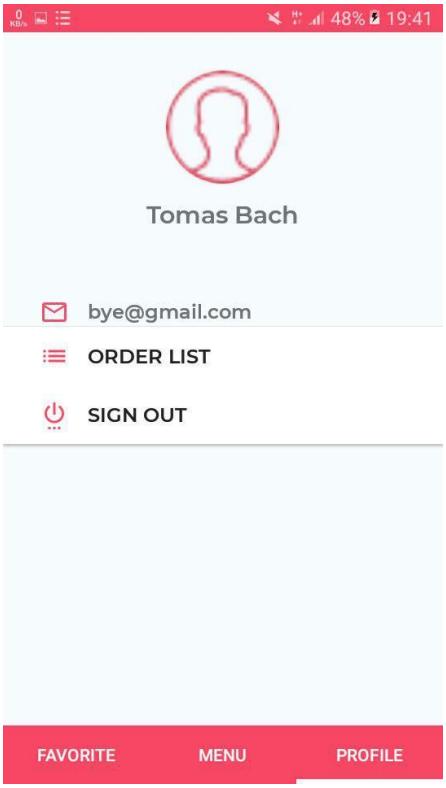


In the **menu** page, there appear the available meals that can be ordered.

At the right of each food item view, there is a heard with a red border. If you click it, that item will appear in favorite page. If you click the food card item view, here again you can also see the price, description about food, amount, total price and order button. If you click order button, it will be sent to the admin. Then he decides whether accept or not.



In the **PROFILE** fragment, there will be info about the client: his photo, name, phone number, email address and order list button. The client can see his orders by clicking order list button.



If ORDER LIST button is clicked, the client can see his orders and which are accepted or pending or rejected.