

CS F213 OBJECT ORIENTED PROGRAMMING

Final Project



App Name: GroT-Grocery Tracker

Compatibility: Android 5.1 (Lollipop) and above (Tested on Android 10)

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ACKNOWLEDGEMENTS

Our deepest appreciation to our professors – Dr.Subhrakata Panda and Dr.DVN Siva Kumar who have taught us the course and to have helped us throughout the course.

ABSTRACT

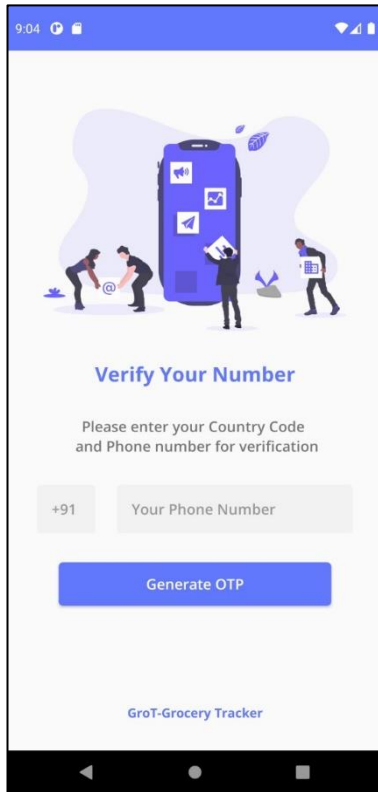
‘GroT’ (Grocery Tracker) is a Java based application built on Android Studio and Firebase. It is proposed and intended in order to keep track of the regular activities and aid people in managing the daily home inventories. The app verifies the user mobile number using a One-Time Password to validate the account. It then takes in other details of the user. The dashboard and tracker have options to manage groceries, bills, home maintenance details etc along with the functionality of a to-do List. The ‘share’ feature allows the user to share the grocery list across multiple applications. The alarm feature in the to-do list has been added as an extra functionality.

FEATURE 1: MOBILE NUMBER VERIFICATION

THROUGH OTP

The app takes in a 10-digit number to give a 6-digit OTP.

Initial Page:



9:04

Verify Your Number

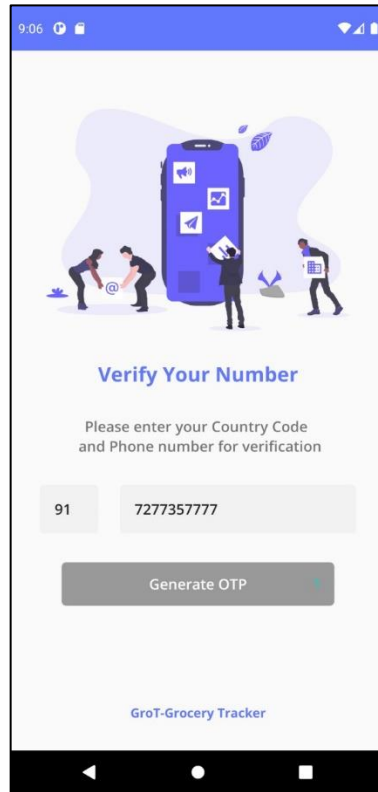
Please enter your Country Code and Phone number for verification

+91 Your Phone Number

Generate OTP

GroT-Grocery Tracker

Wrong Number:



9:06

Verify Your Number

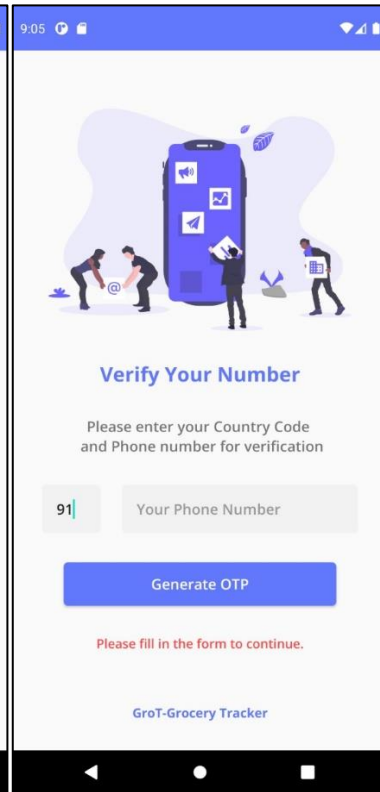
Please enter your Country Code and Phone number for verification

91 7277357777

Generate OTP

GroT-Grocery Tracker

Empty Number:



9:05

Verify Your Number

Please enter your Country Code and Phone number for verification

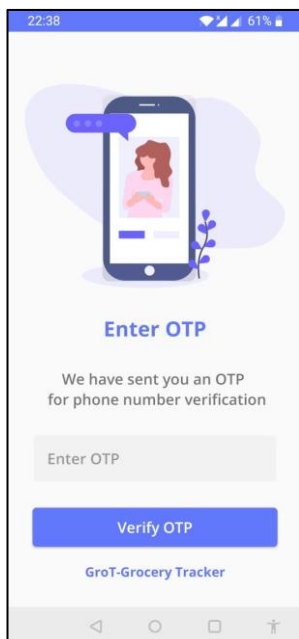
91 Your Phone Number

Generate OTP

Please fill in the form to continue.

GroT-Grocery Tracker

Initial OTP Page:



22:38

Enter OTP

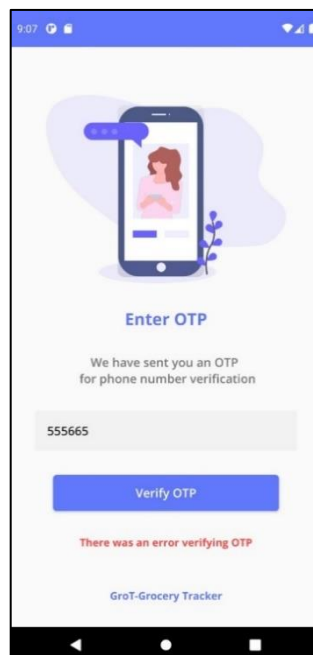
We have sent you an OTP for phone number verification

Enter OTP

Verify OTP

GroT-Grocery Tracker

Wrong OTP Page:



9:07

Enter OTP

We have sent you an OTP for phone number verification

555665

Verify OTP

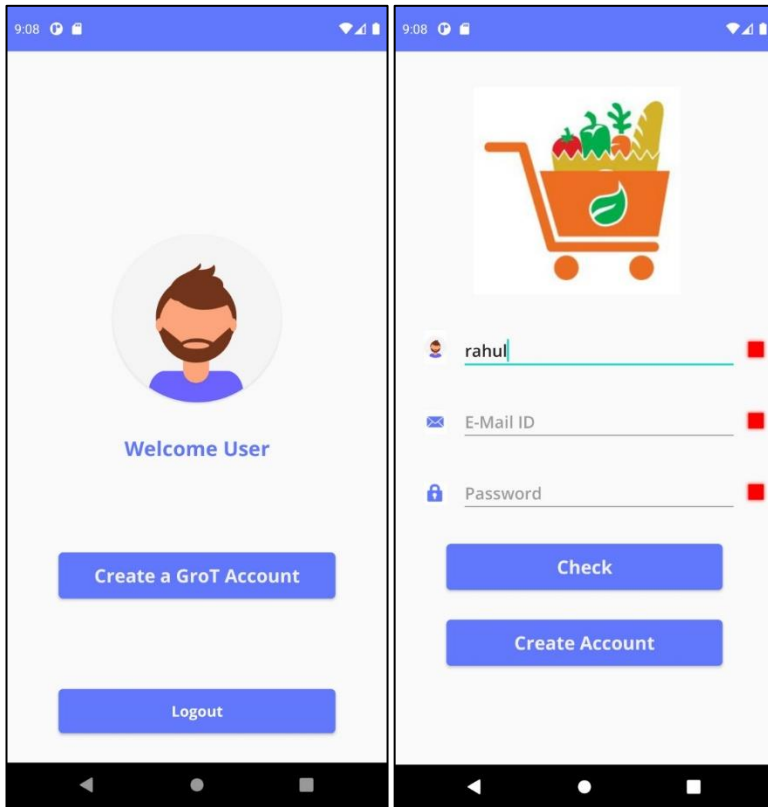
There was an error verifying OTP

GroT-Grocery Tracker

FEATURE 2: Creating a GroT Account using Mail ID

Initial Page:


Next Page:





The Username Field has been regexed to take in only small letters and numbers.


The email field has also been regexed to take in proper email IDs.

The Password Field has been regexed to take in a sequence containing atleast one of each of these 1.Small letter, 2.Capital letter, 3.Number and 4.Special character




 rahul


 E-Mail ID


 Password


Check

Create Account




 rahul444


 E-Mail ID


 Password


Check

Create Account




 rahul444


 rahulmail.com


 Password


Check

Create Account



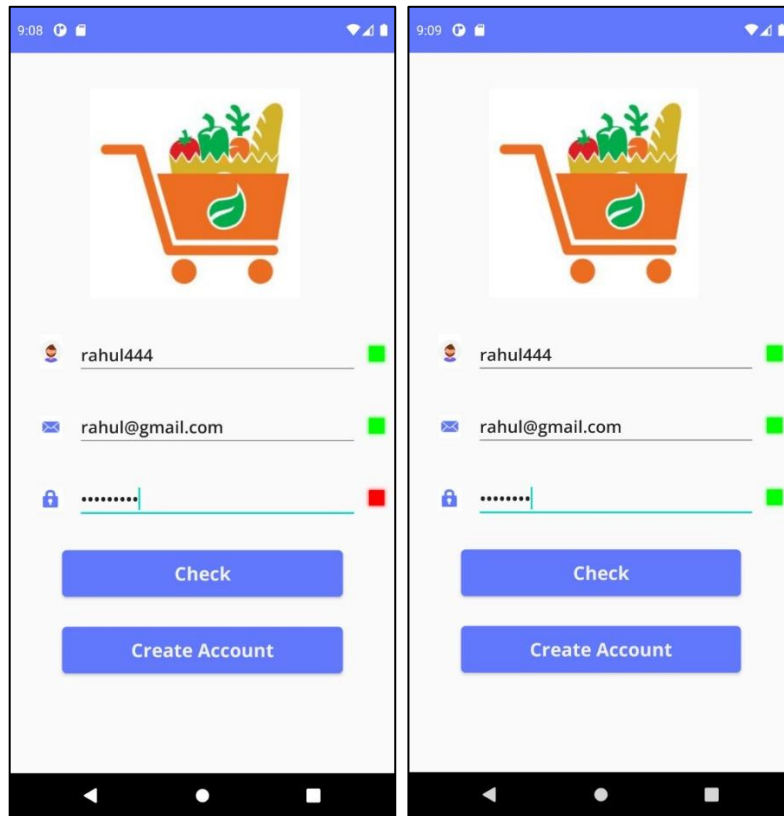
 rahul444

 rahul@gmail.com

 Password

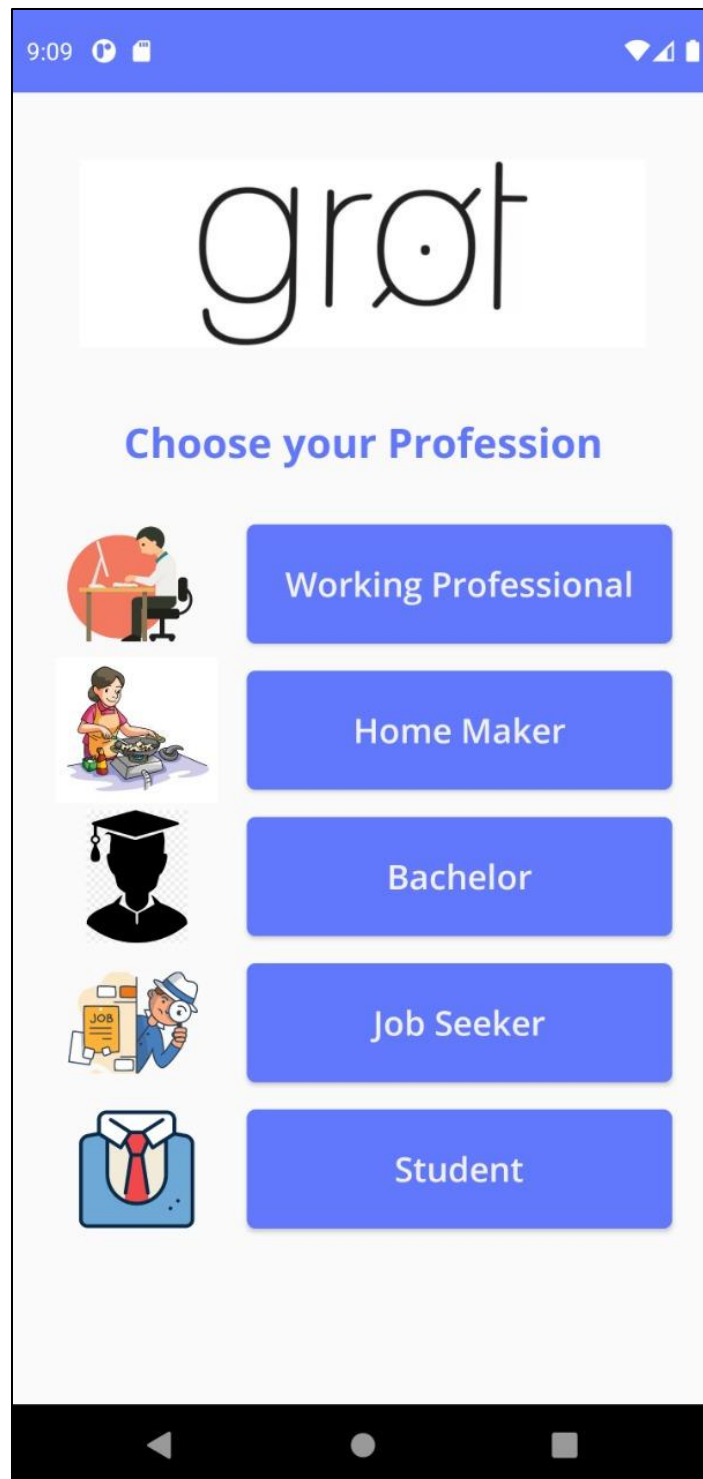
Check

Create Account

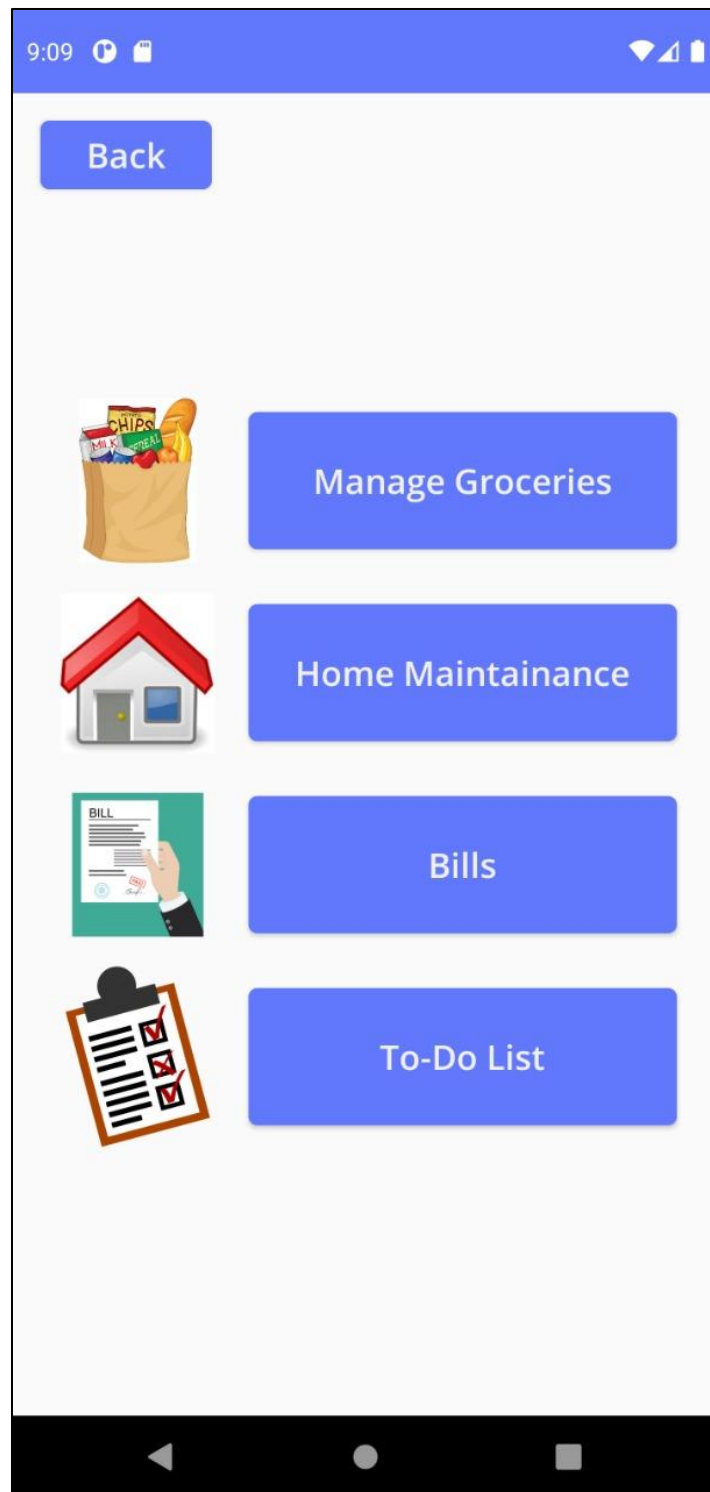


The **Green** and **Red** lights guide the user into registering through the right regex.

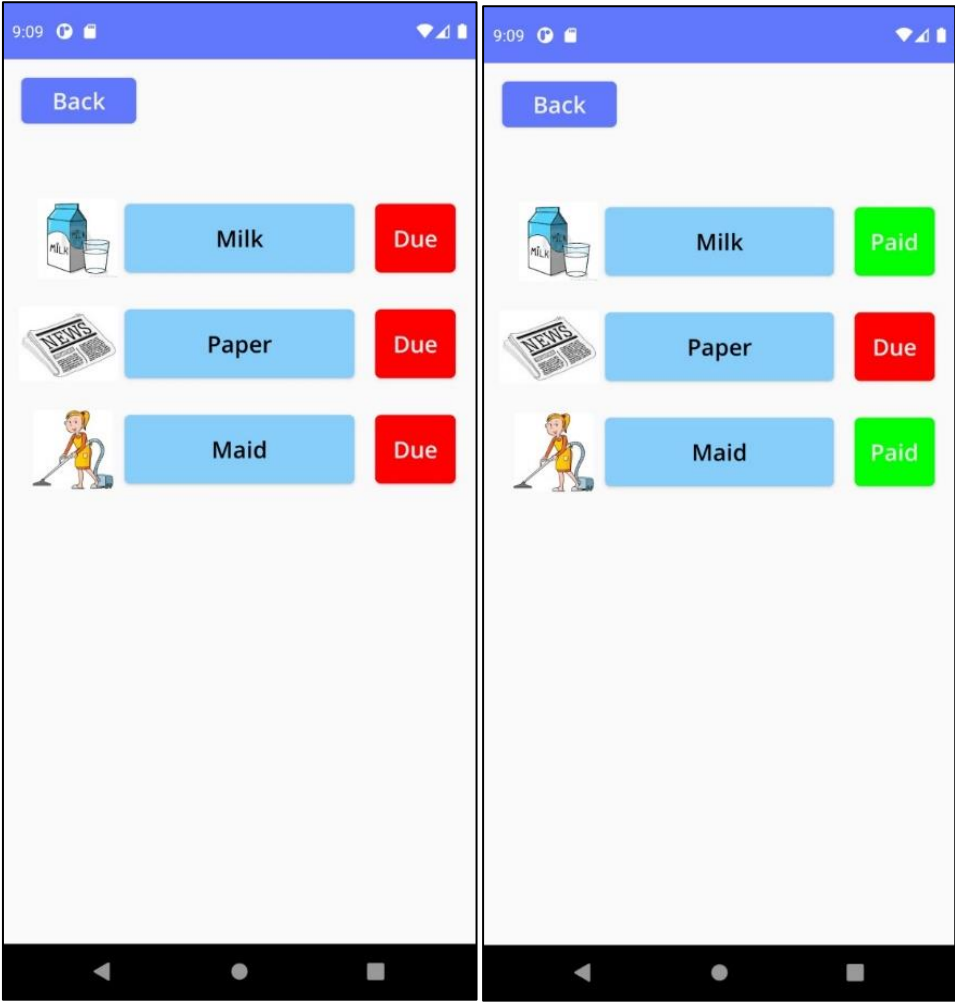
FEATURE 3: Choosing Profession



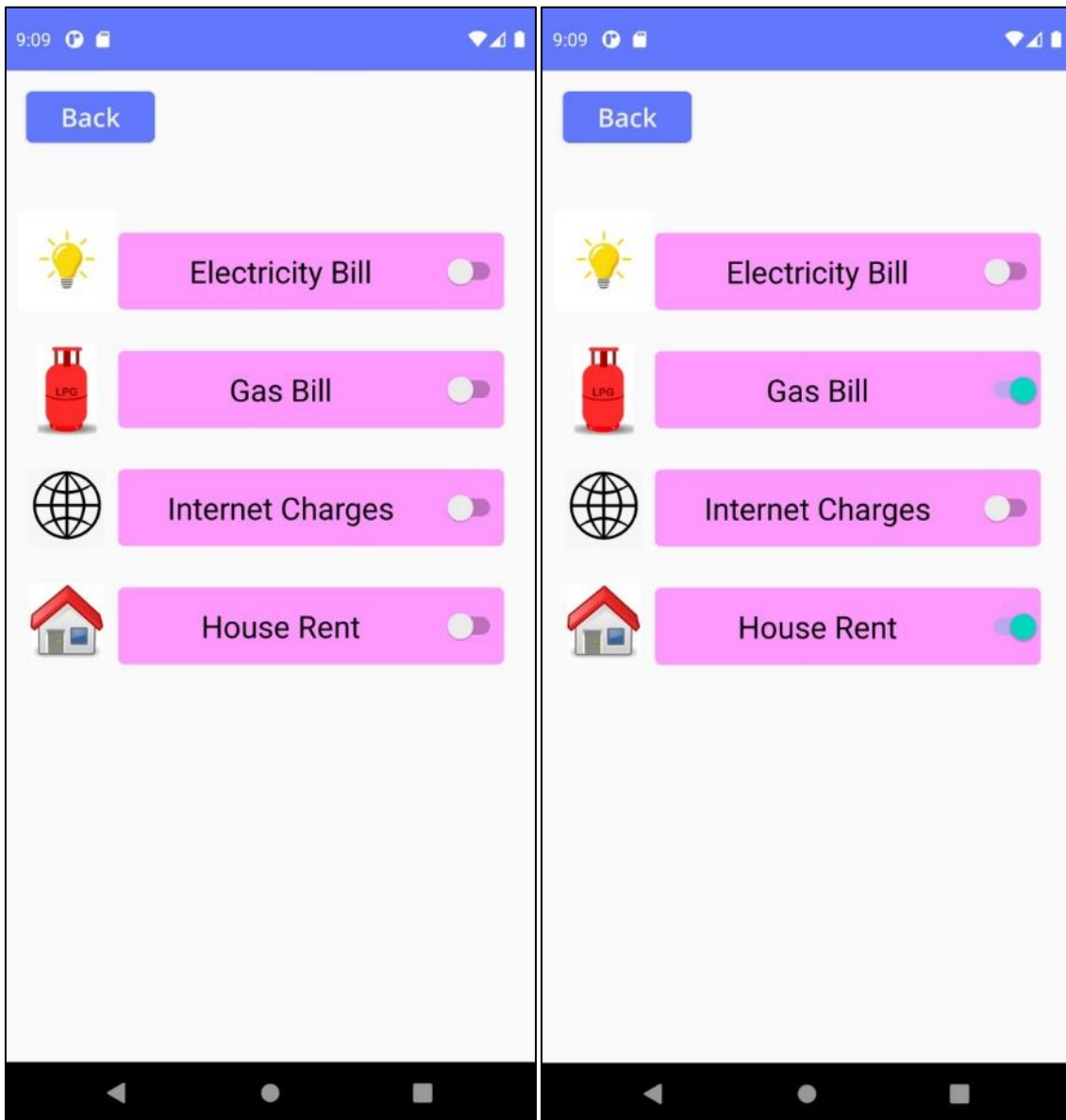
FEATURE 4: Dashboard



Home Maintenance:

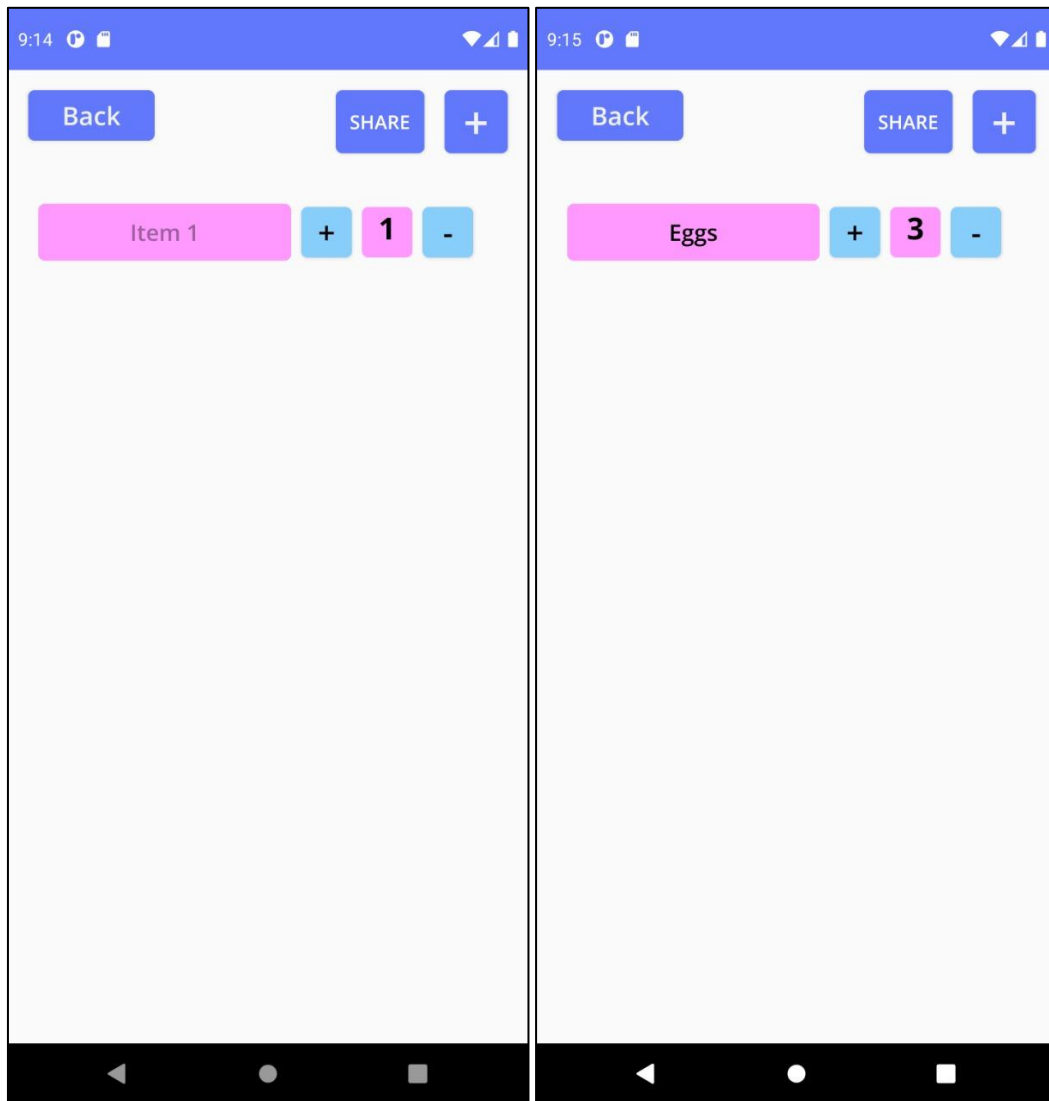


Bills:

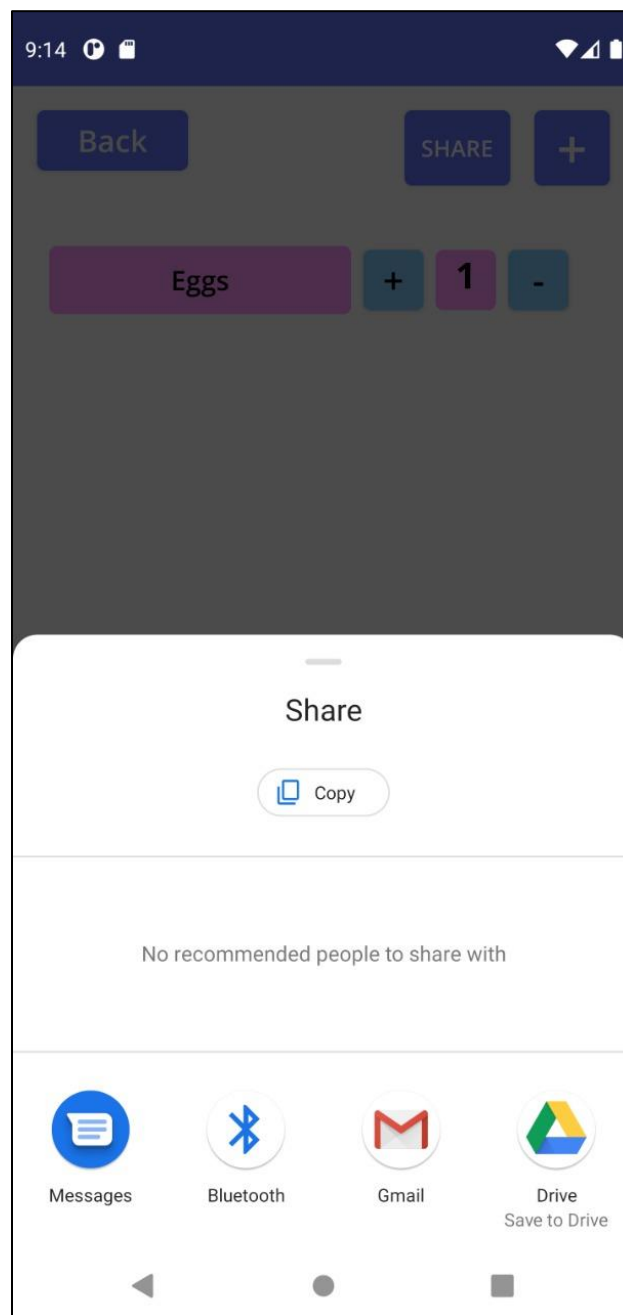


Manage Groceries:

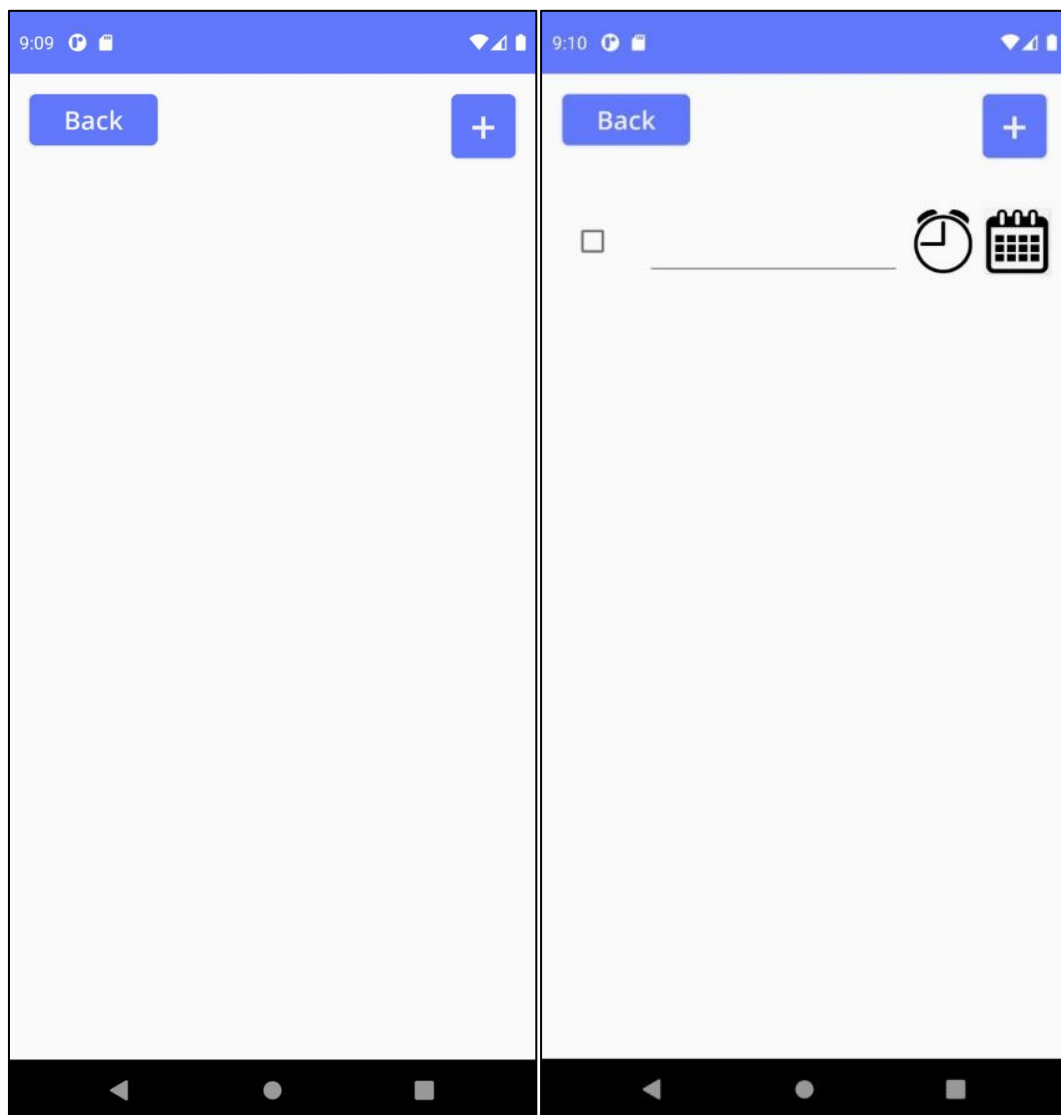
Multiple items can be added in the list using the '+' button.



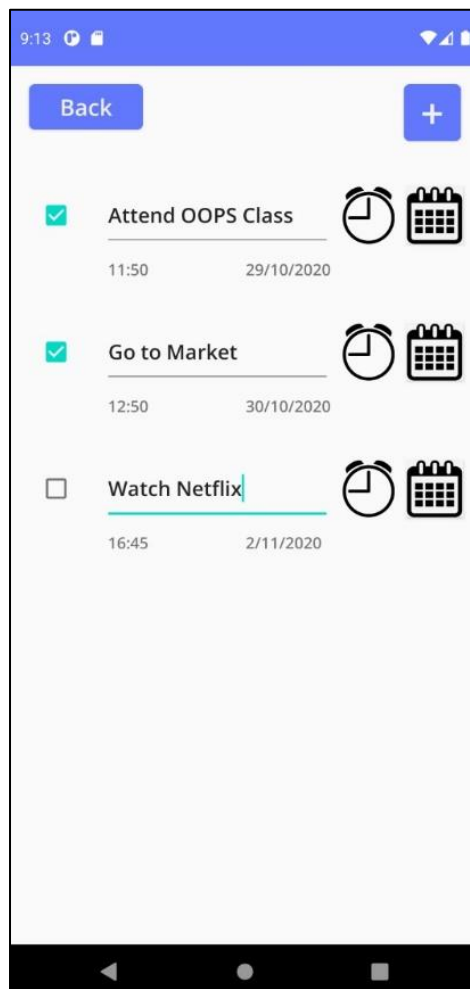
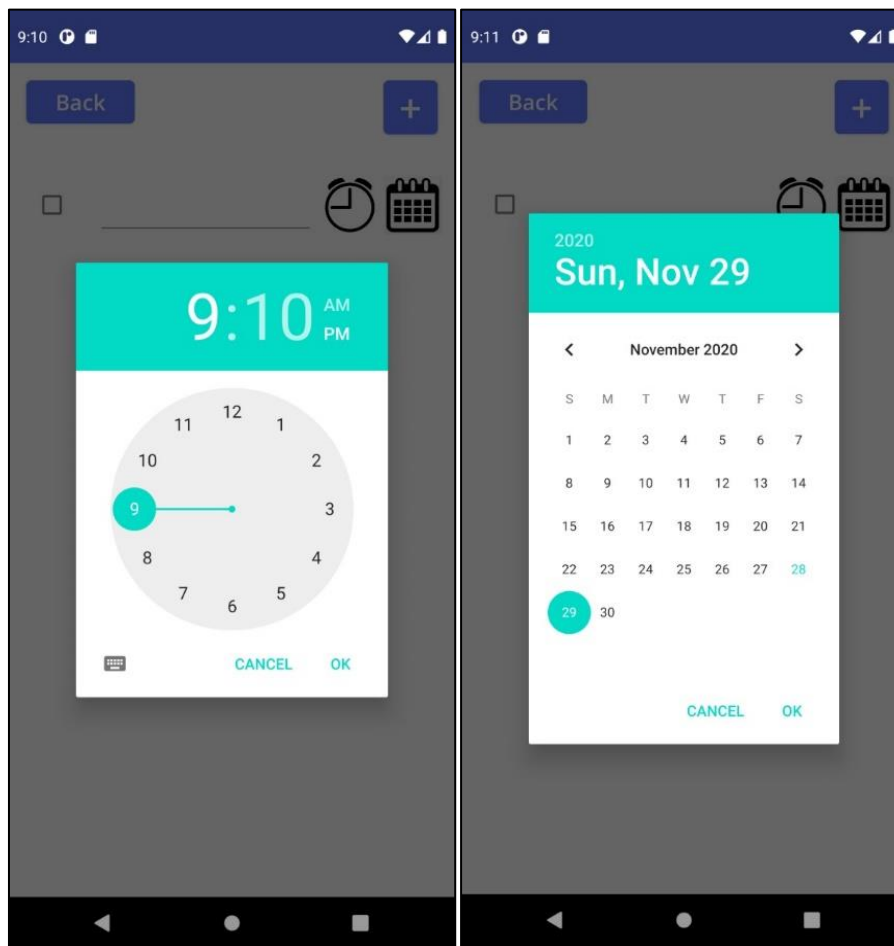
The Grocery list can be shared using the **share** button.



To-Do List:



With add added functionality of an **Alarm** one-hour prior deadline.



Challenges Faced:

- Sending OTP and validating it
- Importing images to the project
- Importing Date and Time and setting reminders
- Using share option for sending information through other apps

Additional Functionalities:

- Making an option to keep track of all-important monthly bills
- Importing suitable images to make the app more user friendly

Platforms Used:

- Android Studio (Complete Development)
- Google Firebase (OTP Verification)
- Cloud Store (Storing User Information)