# CS F213 PROJECT - Group 61

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## TRACK AND TRIGGER

**ANDROID REQUIREMENTS:**

- min API level 16

- min RAM requirements 1GB

- min ROM storage 15MB

- min SDK Version 16, Target SDK Version 30

*(Tested on Android-9)*

## <u>About The App</u>

It is very difficult to recall and control the availability of mandatory commodities in a metropolitan home now-a-days because of hectic work schedules.

We have thus made an effort to create an ***integrated android application*** to keep track of routine tasks and to help individuals handle everyday home inventories.

# FLOW LAYOUT OF THE APPLICATION
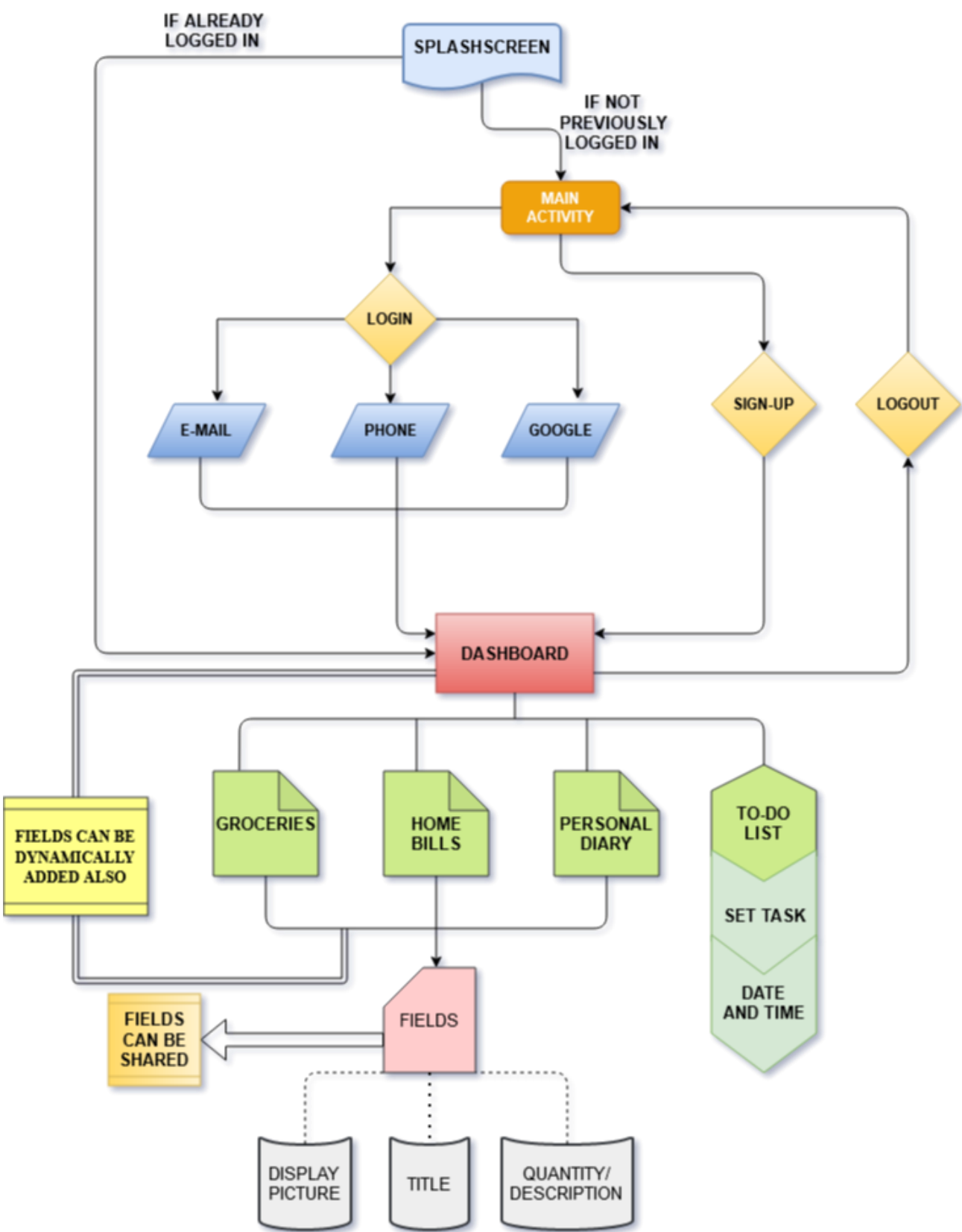
# FUNCTIONALITIES

- ## SIGNIN AND SIGNUP:

The app provides the user with three login options for verification. App employs firebase authentication. Therefore, the user can login through multiple devices using the credentials.
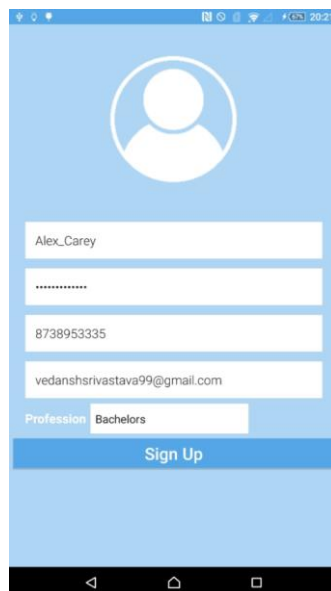
- ➤ Via Email
- ➤ Via Phone Number
- ➤ Via Google account

While registration, no field can be left empty. Password is validated with the help of regular expressions and is considered valid if and only if it follows the following constraints:
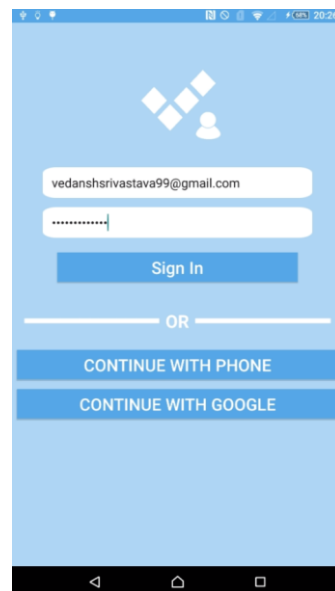
- ➤ It contains at least 8 characters and at most 20 characters.
- ➤ It contains at least one upper case alphabet.
- ➤ It contains at least one digit.
- ➤ It contains at least one special character which includes !@#$%&*()-+=^.
- ➤ It contains at least one lower case alphabet.
- ➤ It doesn't contain any white space.
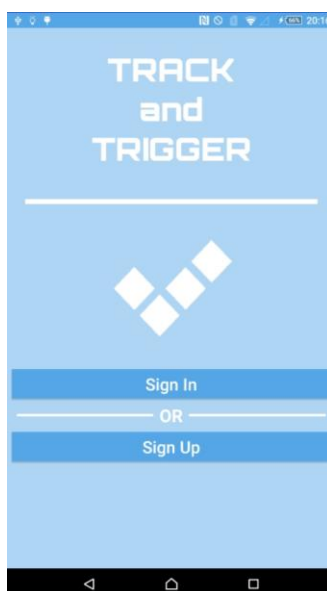


SIGNUP/SIGNIN



SIGNUP PAGE



SIGNIN PAGE

In case of incorrect password

In case of empty field



Firebase Authentication



Realtime database for storing user information
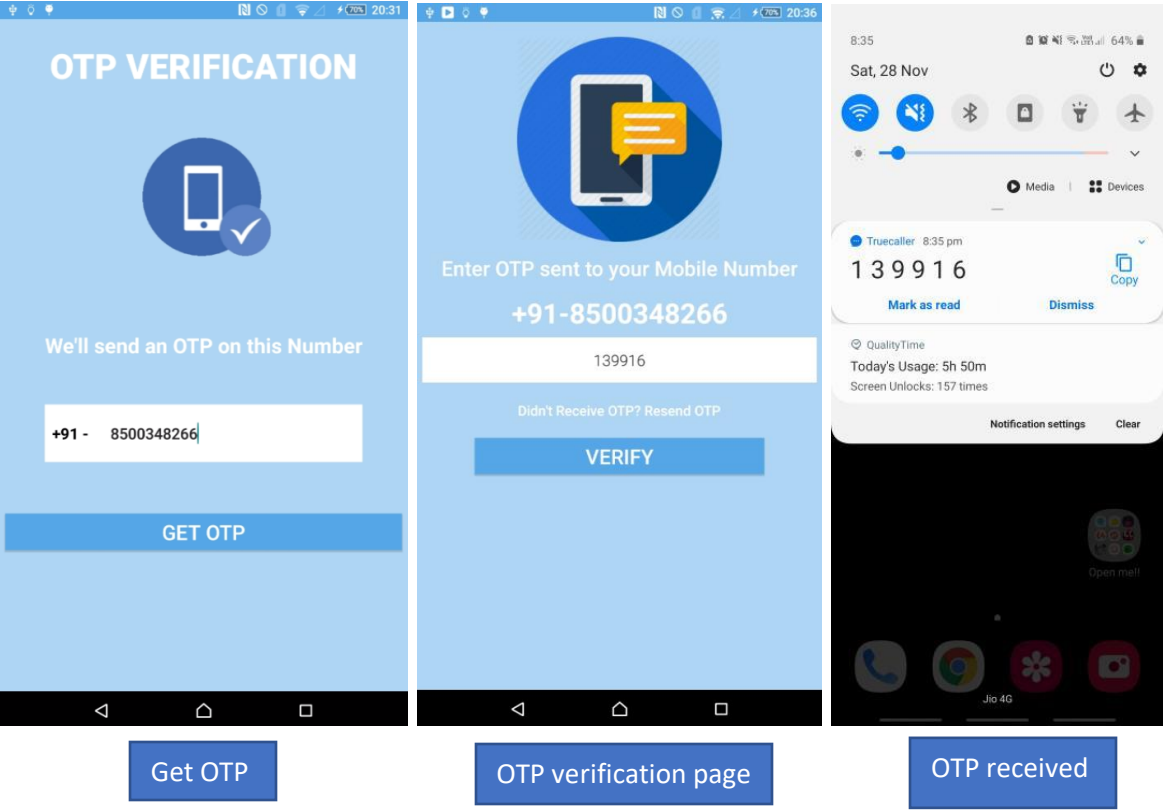
| Get OTP | OTP verification page | OTP received |



Database storage during login through mobile number

- **DASHBOARD:**

i) App provides pre-defined categories

- ➢ Groceries
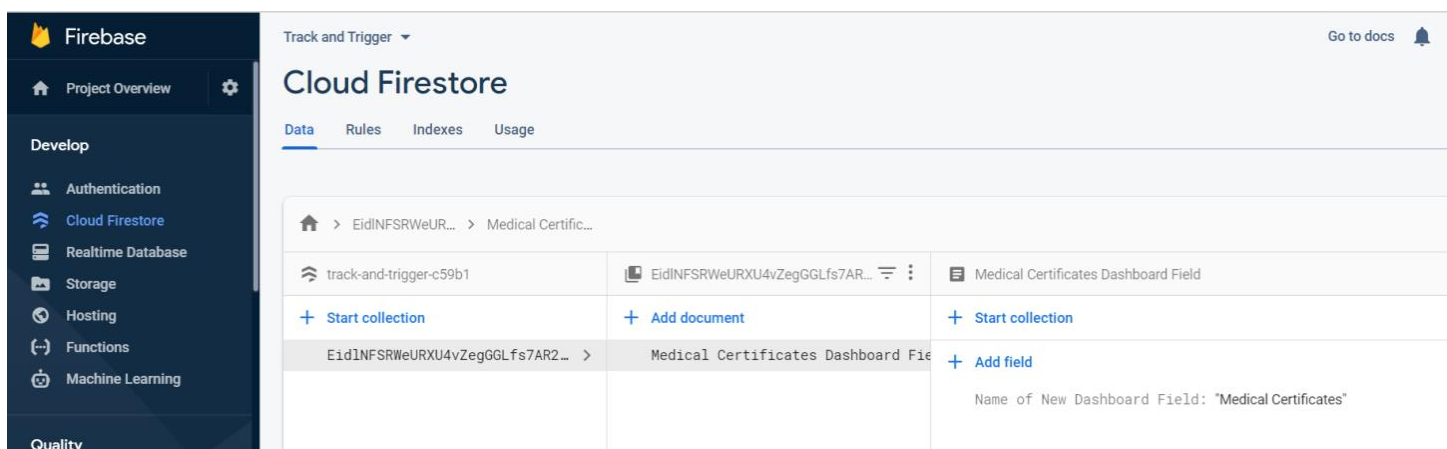- ➢ Home Bills
- ➢ Personal Diary
- ➢ To-Do List

ii) Additional fields can be dynamically added which follows the interface of Groceries/Home Bills/Personal Diary.

iii) Data is maintained on a cloud database. Hence, the information can be retrieved if one looses his/her device.

iv) App provides a logout option, if the user wishes to do so.
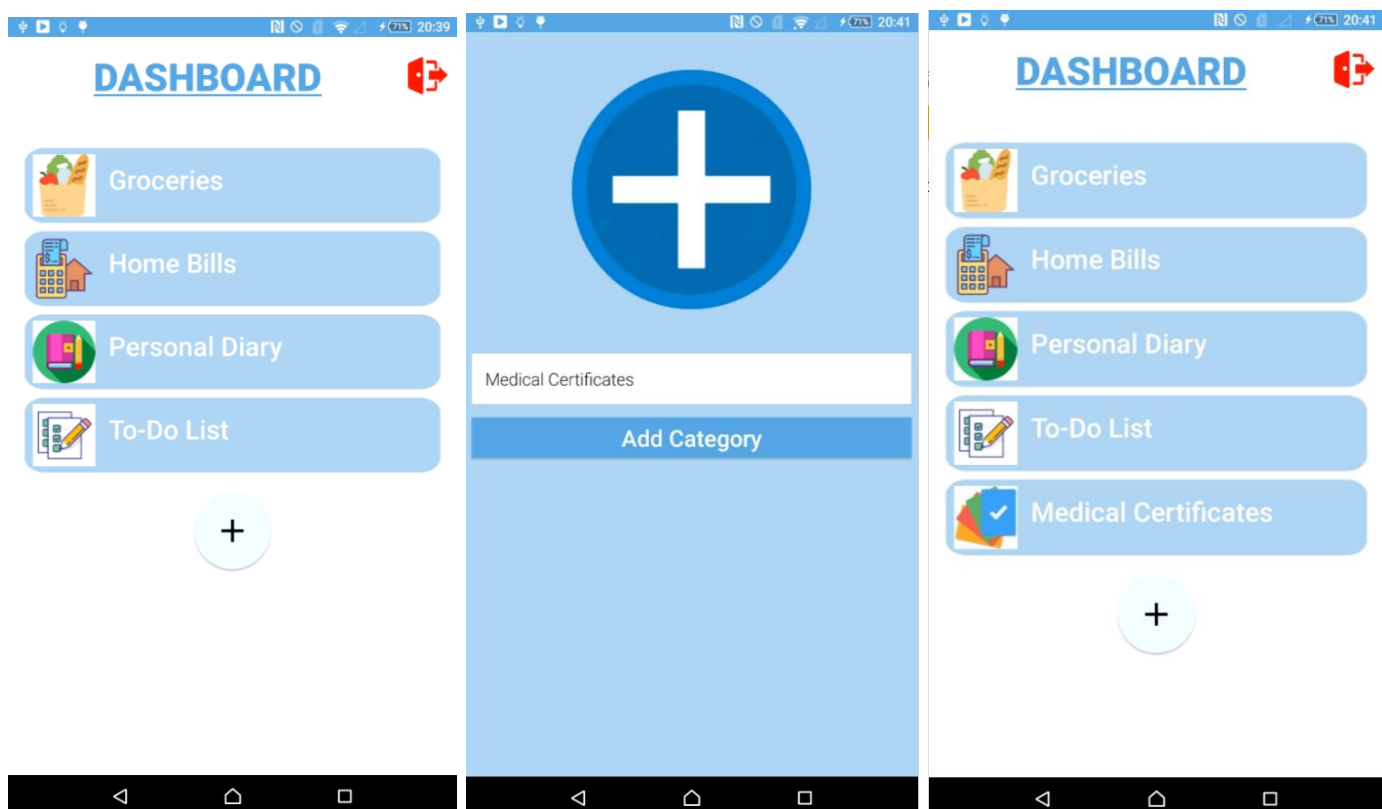


Dashboard

New Dashboard Category

New Category added



Updated Firestore

- **GROCERIES/ HOME BILLS/ PERSONAL DIARY:**

i) User can keep track of their inventories by adding them and updating the fields whenever sees fit.

ii) User can maintain a personal diary with custom images where user can note important work accomplished in a day.

iii) User can keep a track of his/her household bills such as electricity, water, gas etc. in the HOME BILLS category.

iv) User can attach photos to fields under each category for reference. Each field can be edited, shared and deleted.

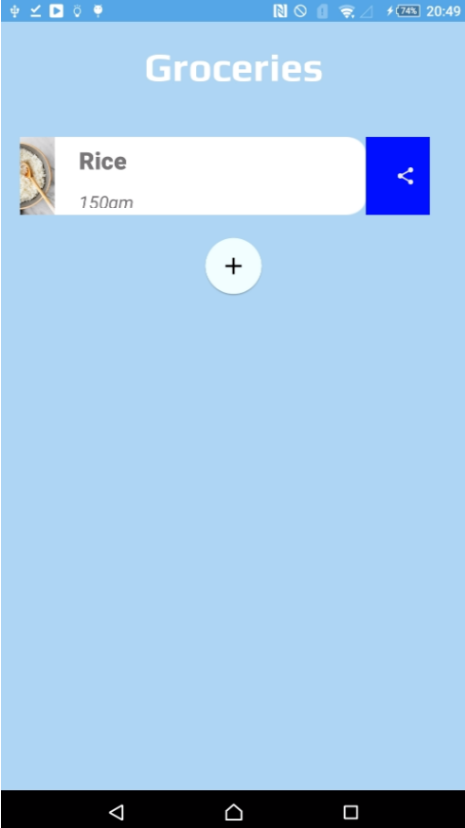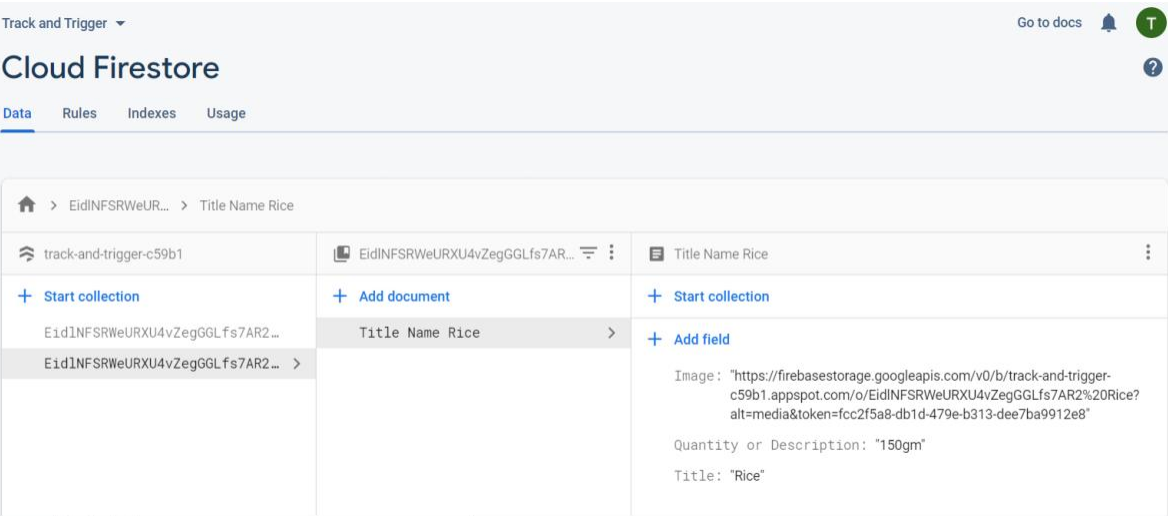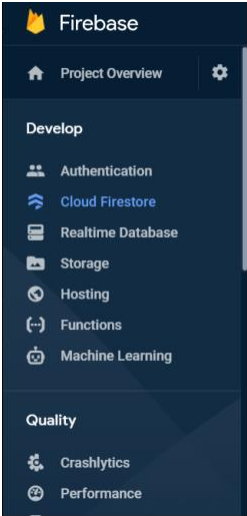v) Data is maintained on a cloud database. Hence, the information can be retrieved if the user loses his/her device.



Groceries Category



New field in groceries



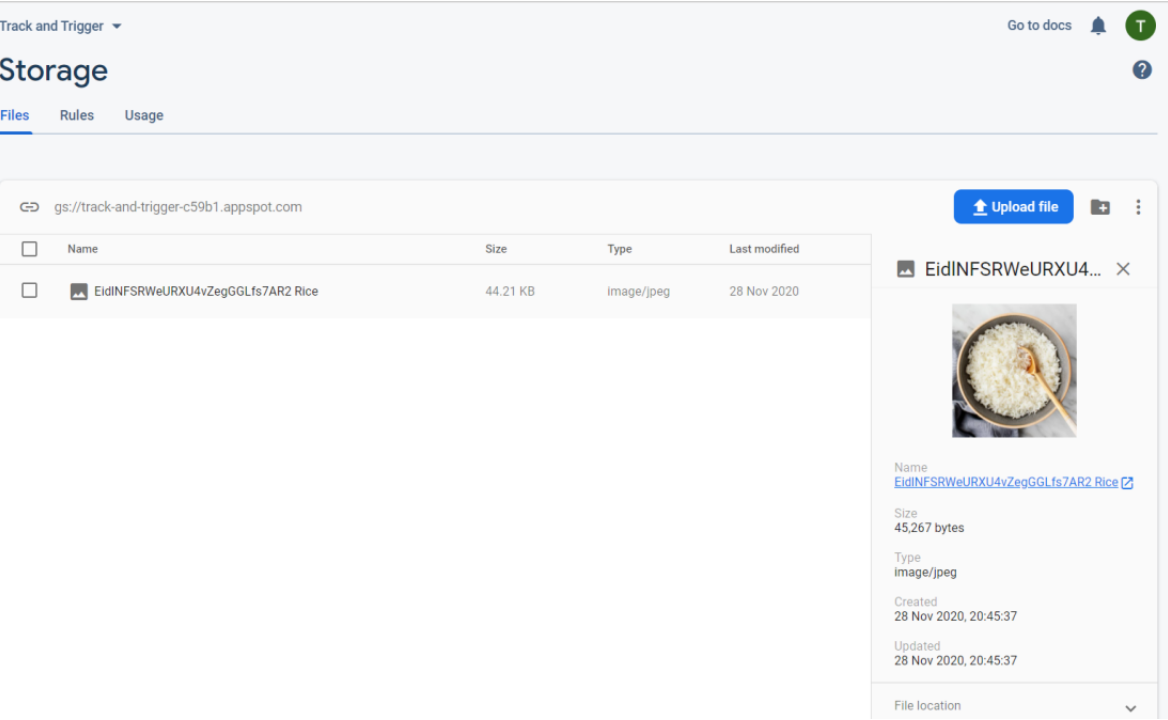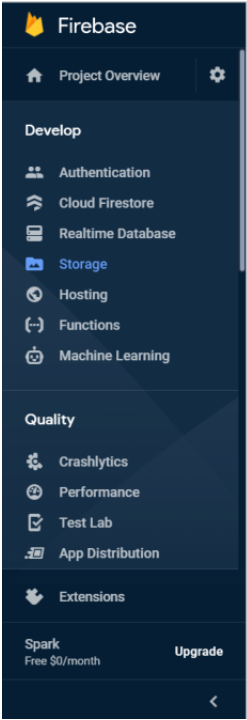Updated groceries category
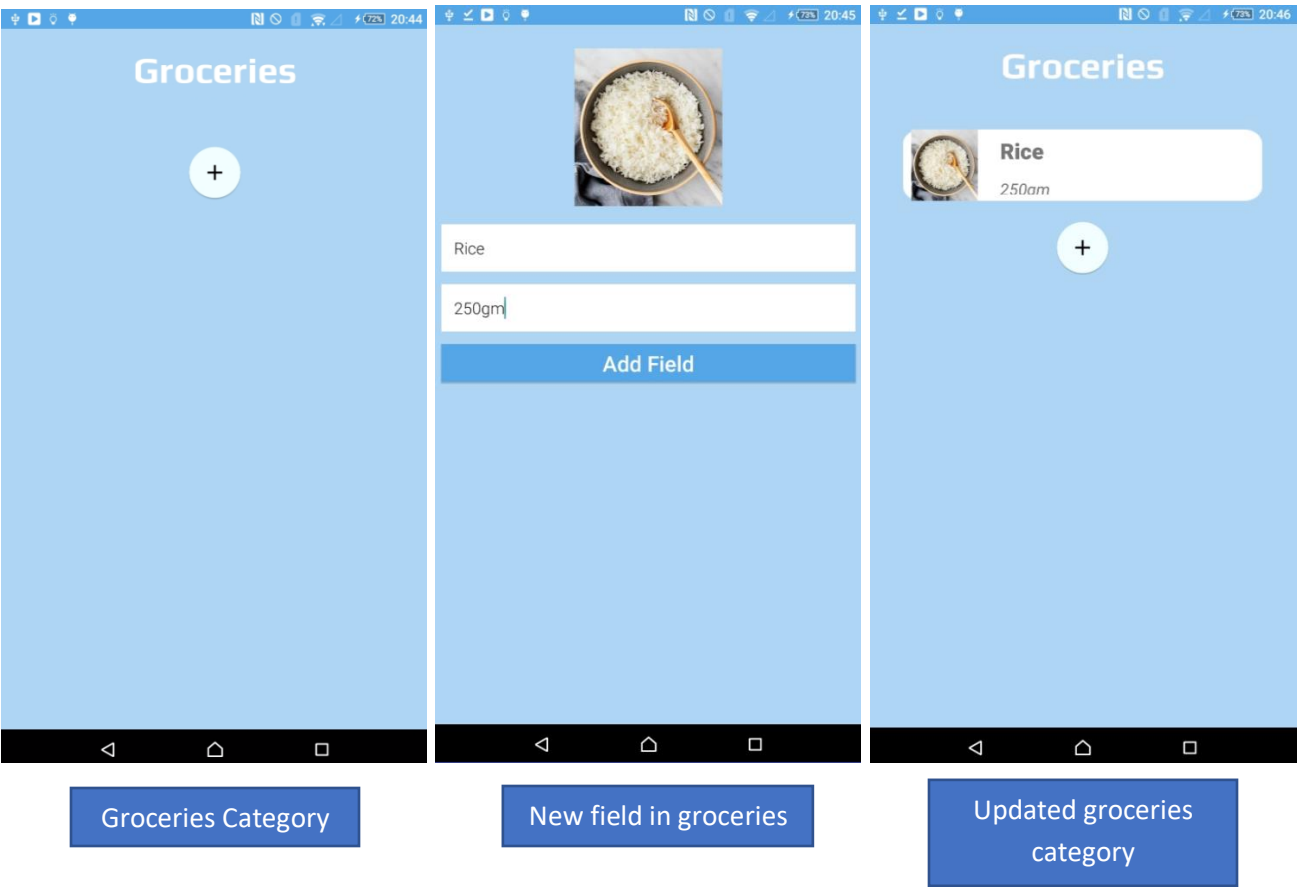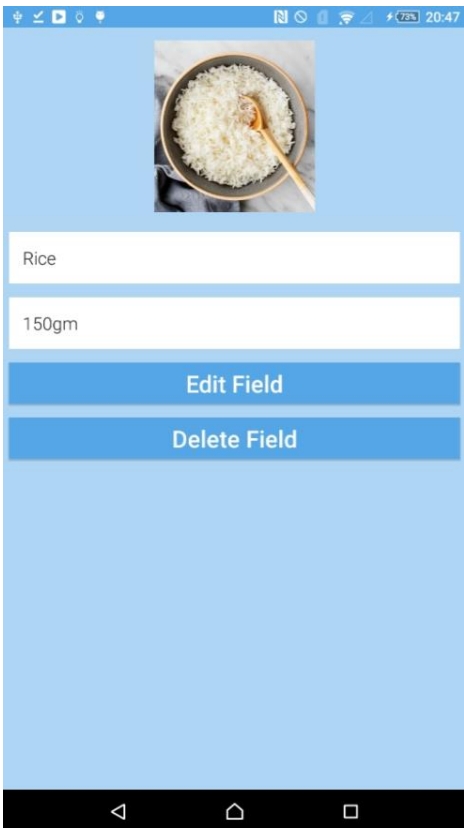
Edit window
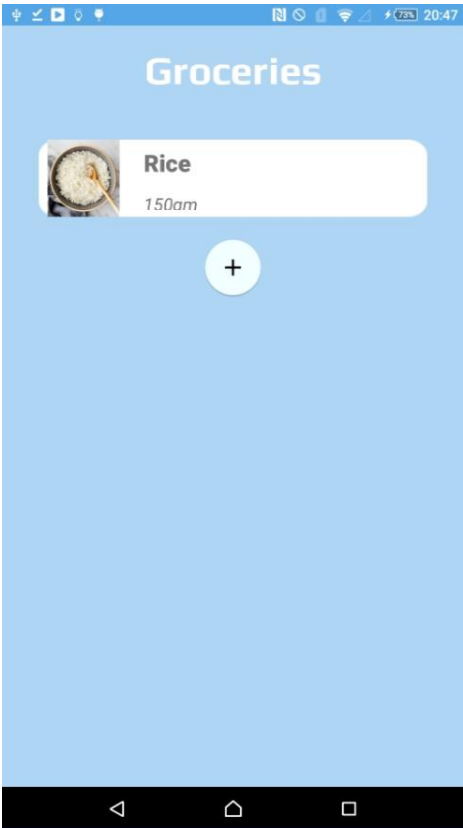
Edited field

*Slide to share* option



Firestore after updating the field



Firebase Storage after adding image in the field

- **To-Do List:**

➢ The user can schedule reminders for important tasks at the desired time.

➢ The user will be notified through a local notification on his/her device, even if the app is closed. The event can be deleted afterwards.

➢ User can choose date and time to his/her convenience.



| Adding an event | Setting date and time | Scheduled event |



Event reminder



Cloud Firestore after scheduling an event