

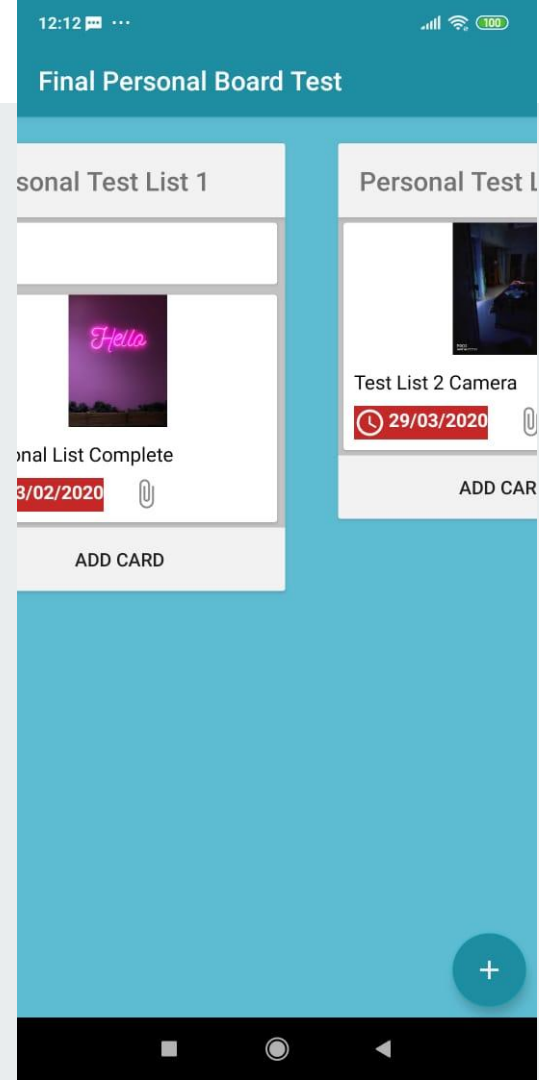
Description Document

Kanban Board By Sankalp Chauhan (www.sankalpchauhan.me)

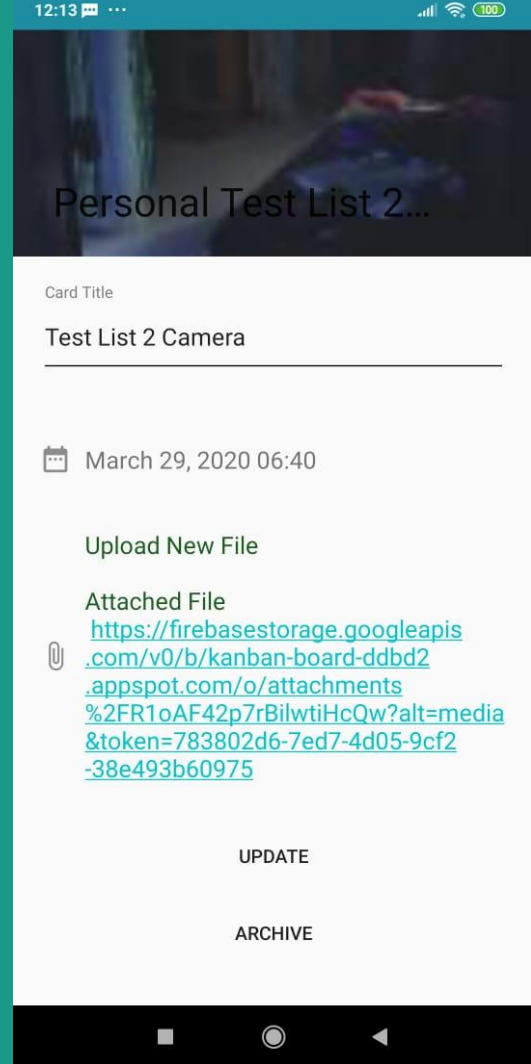
GitHub Link-<https://github.com/sankalpchauhan-me/FliprTask>

Key Points

- Android Jetpack Components
- MVVM Architectural pattern
- Proper Folder Structure
- No third party library (except MikePenz Material Drawer)
- Fast Query
- Draggable Items
- Archive Functionality
- Intuitive Minimal UI
- Reminders
- Offline Sync
- Attachments



Task Description



Description



You have to create a collaboration tool that organizes your projects into boards. In one glance, it will tell you what's being worked on, who's working on what, and where something is in a process. Imagine a whiteboard, filled with lists of sticky notes, with each note as a task for you and your team. Now imagine that each of those sticky notes has photos, attachments, comments and collaborate with your teammates. Now imagine that you can take that whiteboard anywhere you go on your smartphone. That's the application you have to develop. Create a fully functional web-based Kanban-style list-making mobile application. You can refer to the link given below for the reference.

Website Link - <https://trello.com/>

Application Link -

https://play.google.com/store/apps/details?id=com.trello&hl=en_IN

Functionalities Required



Functionalities:

- Home Page

- 1) Registration

- 2) Login

- 3) Forget Password

- Create Account Page (Sign Up Page)

- Login Page

- After Login Main Home Page

You can create 2 types boards

- 1) Personal Board System

- 2) Team Board System

Board System

In a board you can create multiple lists and in a list you can add multiple cards

Create a board

Under the board

- Create a list

Under the list

- Create Cards

Card Functionalities

- 1) Due Date (with reminder)

- 2) Attachment

- 3) Archive Action

- 4) Move Action (Will attract extra marks)

- 5) You can additional functionalities like Add Member etc (Will attract extra marks)

Create a board system for the Team

All the systems will be the same as the personal board

You can invite teams in the dashboard.

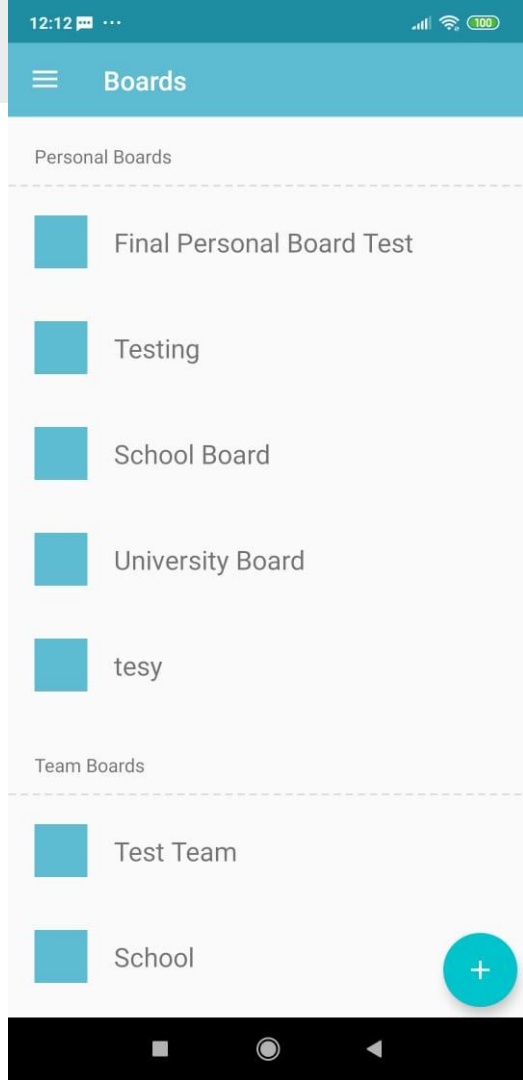
You can invite teams in the dashboard.

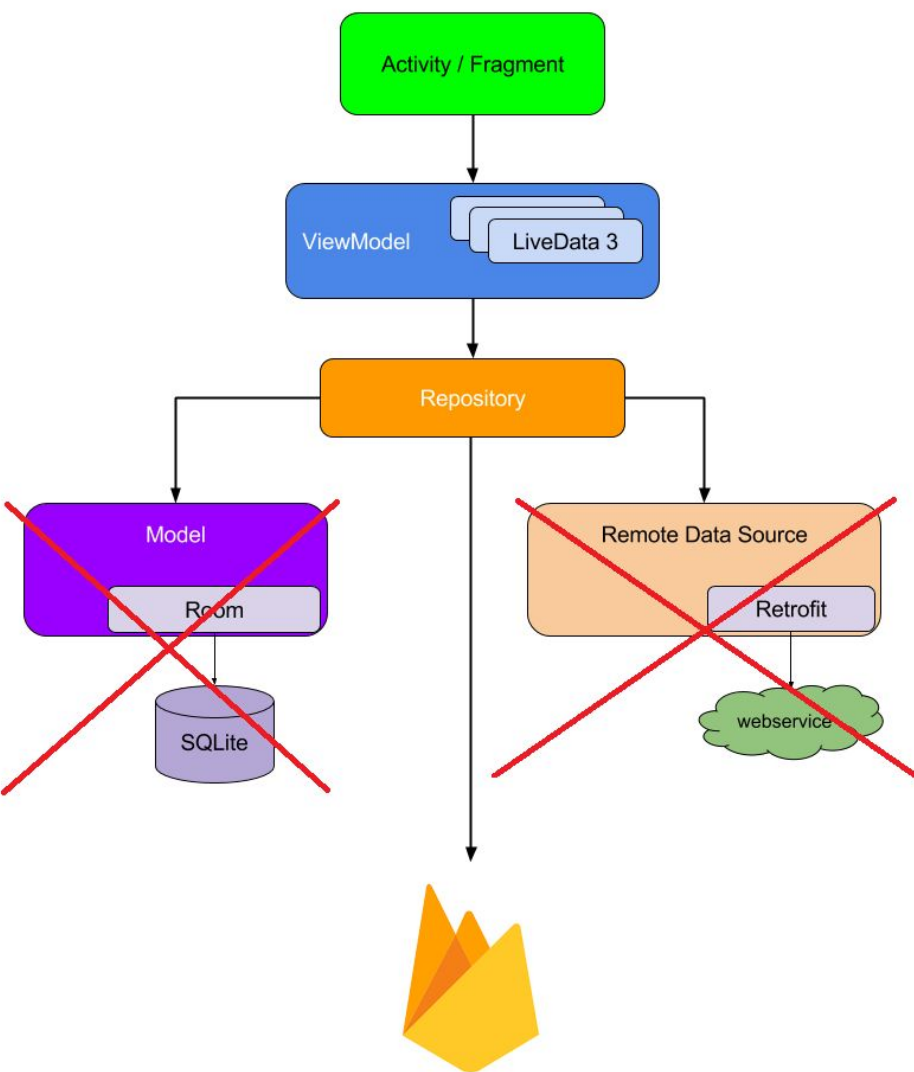
Tech Stack Used

- Firebase Firestore (Backend) - NoSQL DB
- Android SDK (Frontend)

Programming Languages

- Java





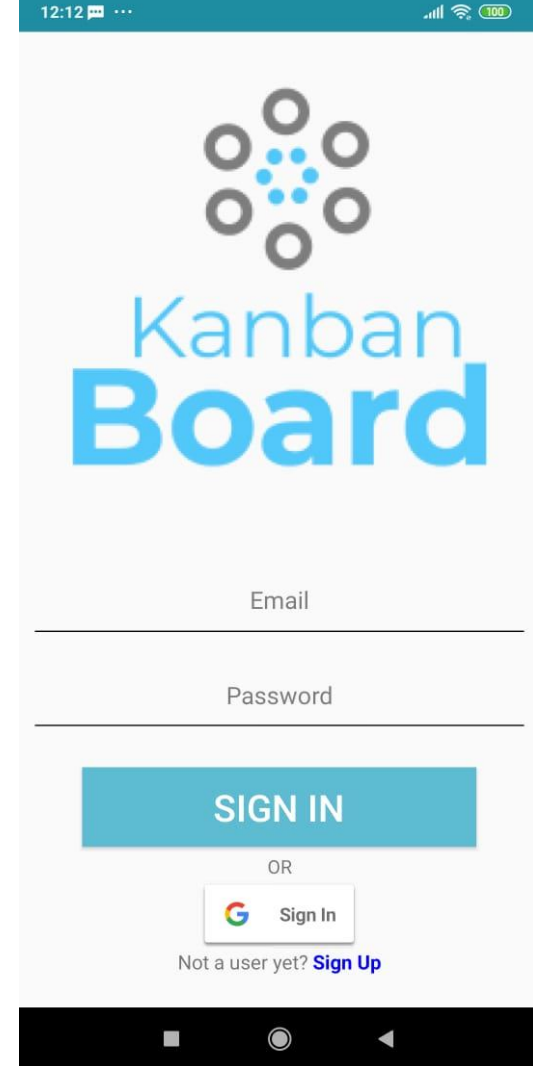
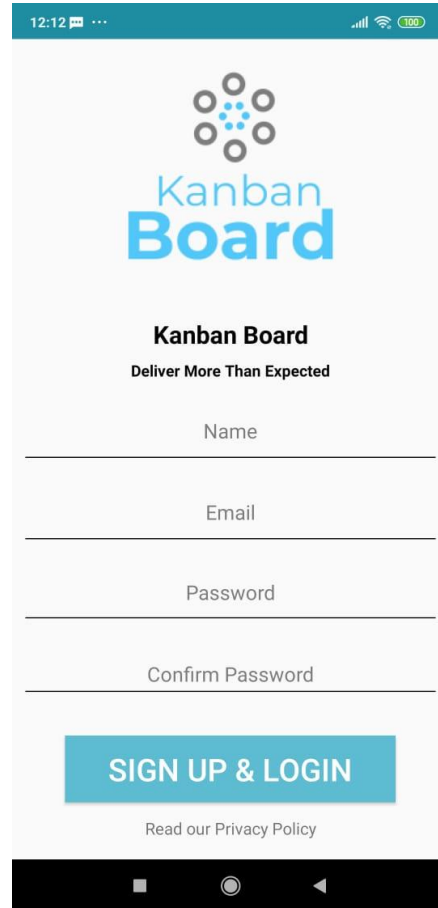
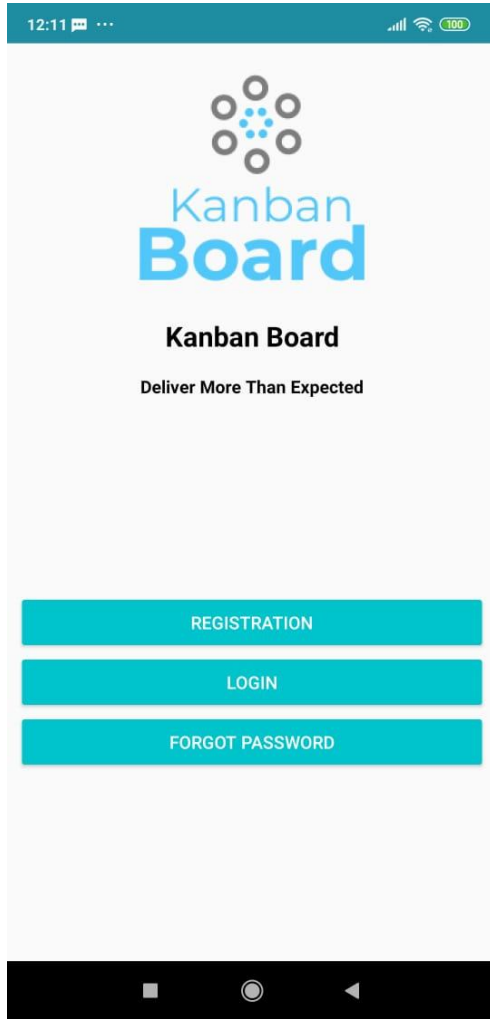
MVVM Architecture

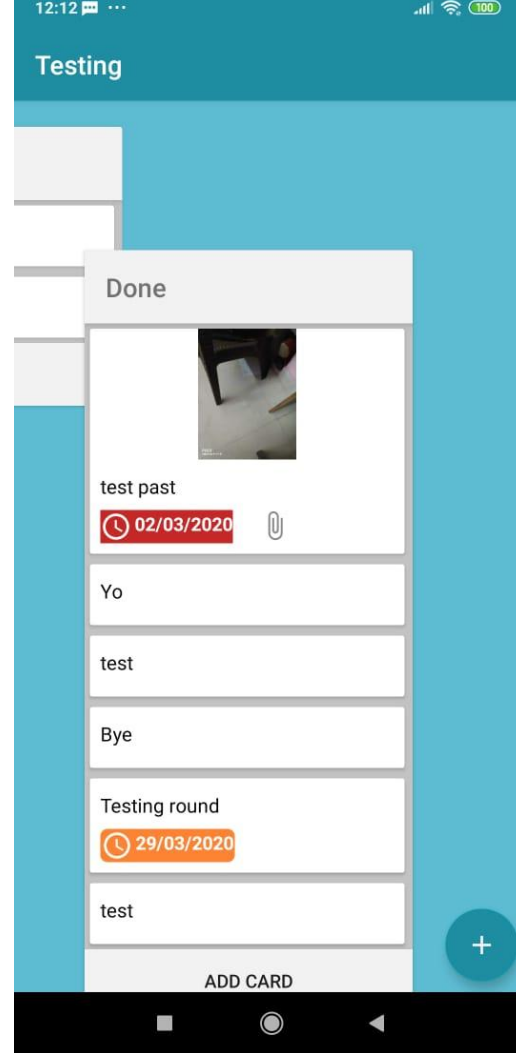
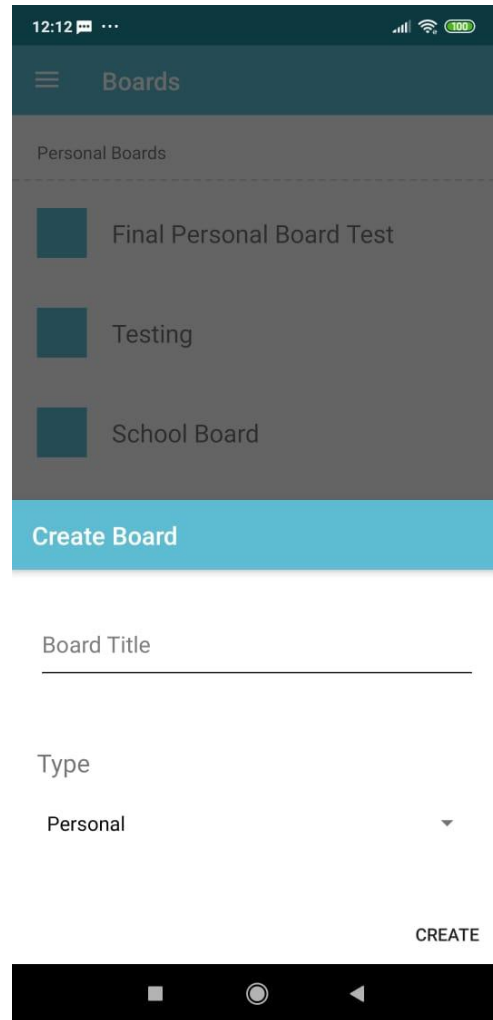
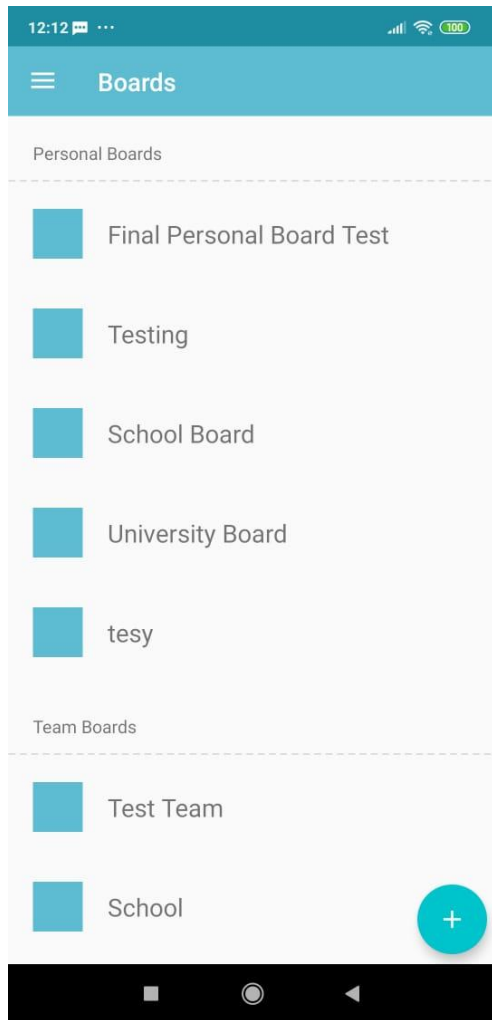
With Firebase interacting with repository, the application is designed in a way to be scalable, any backend can be Swapped in future without much changes in codes, be it

AWS, Room, Retrofit, Mongo the application will run smoothly.

With MVVM unit testing also becomes easier

The Sign Up Flow

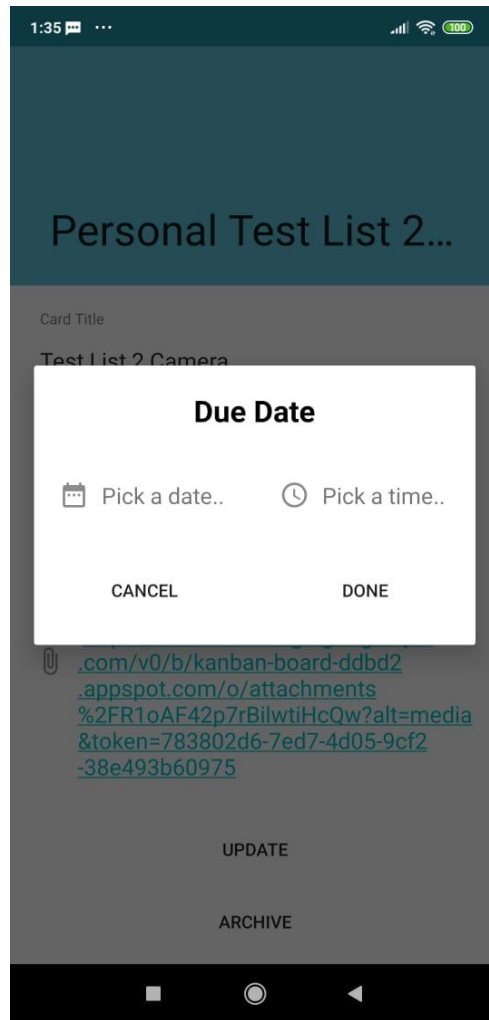
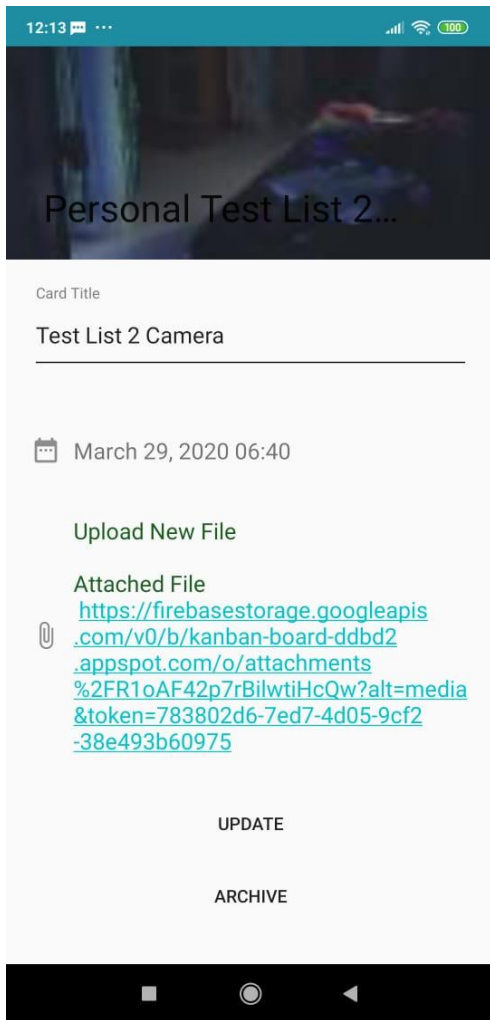




Creation

Draggable
Views

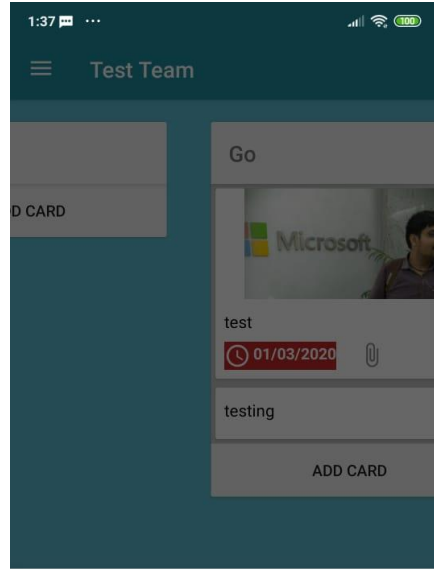
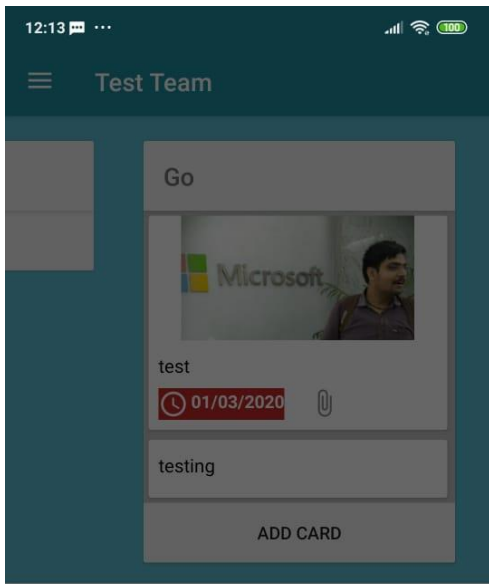
The Views
rearrange
in new
position
after drag
& continue
to persist
in that
location



Card have reminder, attachment, archive features

The cards are also position aware and can be easily dragged to new position where it continue to persist.

The cards can also be archived



The Team Board

The team board has access of all the users in team, the users can be invited via email.

Apart from that team board have additional features that help in workflow of the team

Member Email

SEARCH

Member Email

sankalpchauhan.me@gmail.com

Email Found
SEARCH

ADD MEMBER

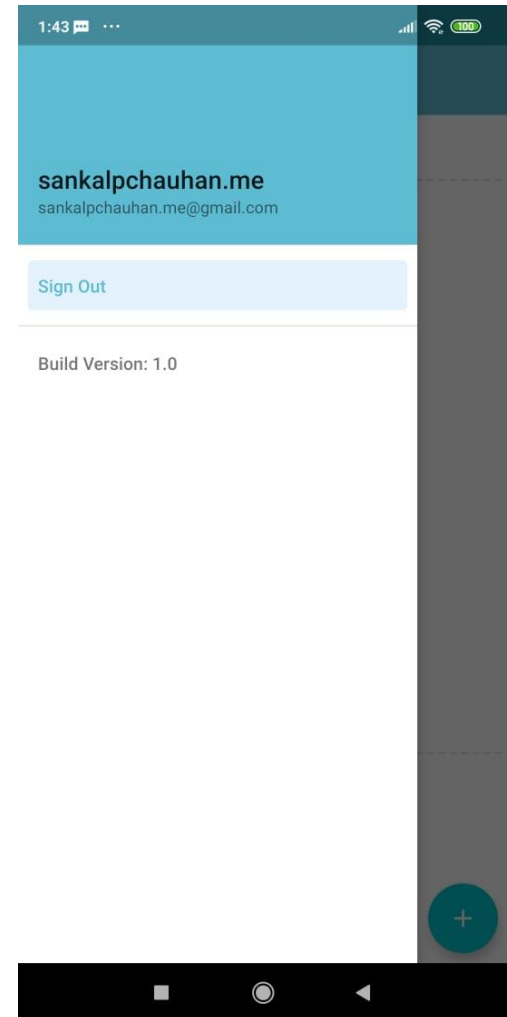
File Architecture

- Adapters
- Fragments
- Model
- Repository
- Utilities
- Views (Activities)
- ViewModel

```
sankalpchauhan
└─ kanbanboard
    ├── adapters
    ├── fragments
    ├── model
    ├── repository
    ├── util
    ├── view
    └── viewmodel
    └─ KanbanApp
```

Summary

Overall the app fulfills all the requirements, given in functionalities, except the additional feature, like check list, label etc. due to time constraints I was not able to implement these additional features. But surely will add them in future update.



THANKS