

OOP Project (APP Dev)

TrackTrigger

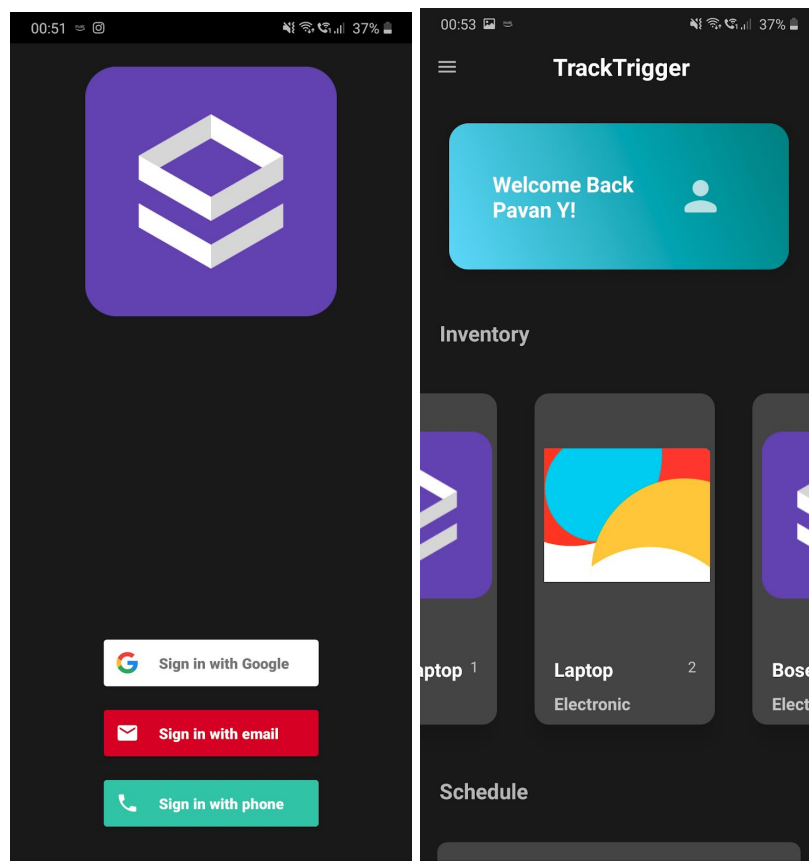
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Introduction

Our Track and Trigger Application can be used by homemakers as well as working professionals to make their lives easier. This App was developed on Android Studio requires a minimum SDK version - 23 and target SDK version - 30.

Github Repository - <https://github.com/PavanReddy28/TrackTrigger32>



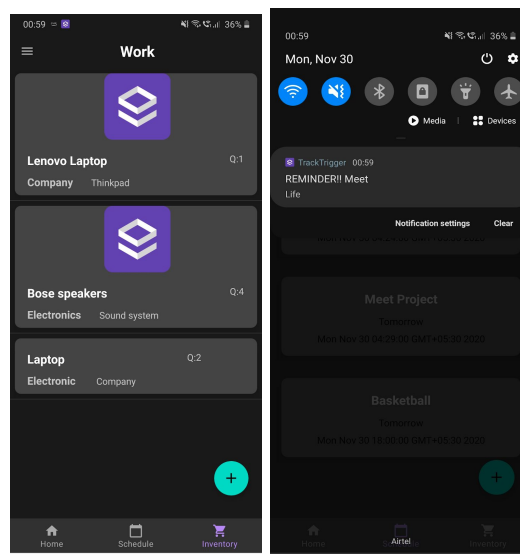
Platforms

We used the Android Studio Software for the front end of our application. Hence our project is essentially made in Java and xml. We connected our project to Firebase and used the Firebase Authentication UIs as well as Cloud Firestore as our database.

Functionalities

This app provides the following functionalities:

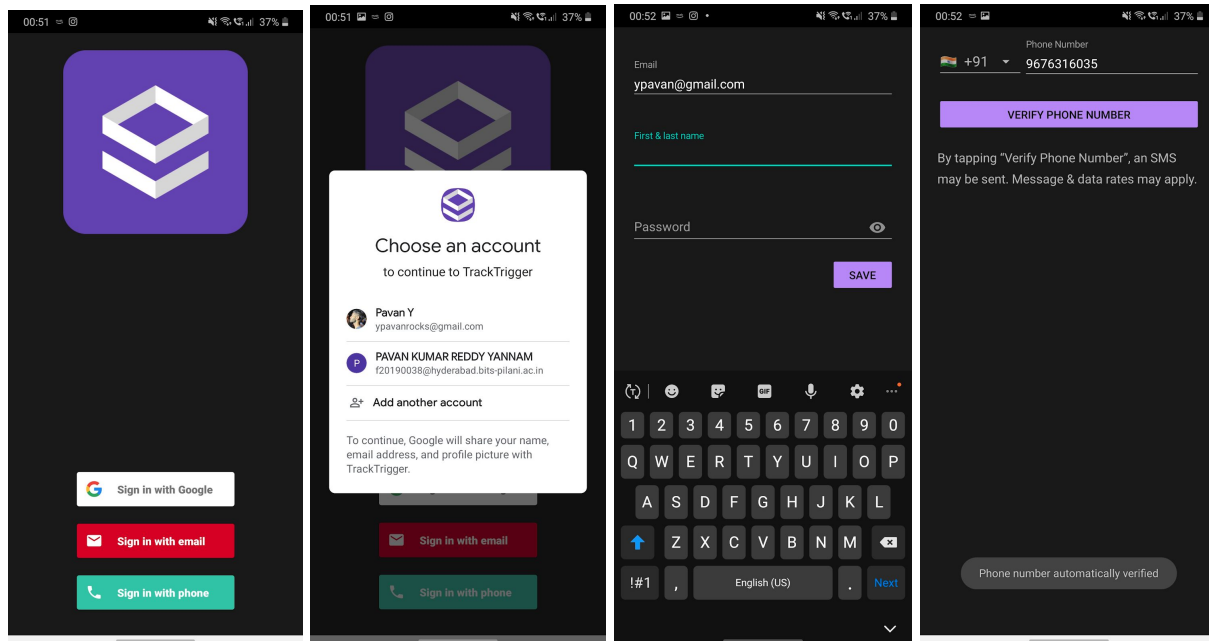
1. Google/email/Phone Sign-In
2. Phone authentication via distinct OTP
- 3 Choice of Creating or Joining a pre-existing Household
4. Have separate Work and House Inventories/Schedules
5. Notes Section(to store daily notes/lists)
6. Notification to update inventories at a set time(2:45 pm)
7. Reminder Notification(Based on set time)
8. Sharing Inventory Information via Whatsapp and Email



Login Activity

We have used Firebase Authentication services for the login activity. Users can sign in using their Google account, Email ID and Telephone number.

Firebase generates a unique Firebase user ID for each user, which we have used in implementing many other functionalities in our application.

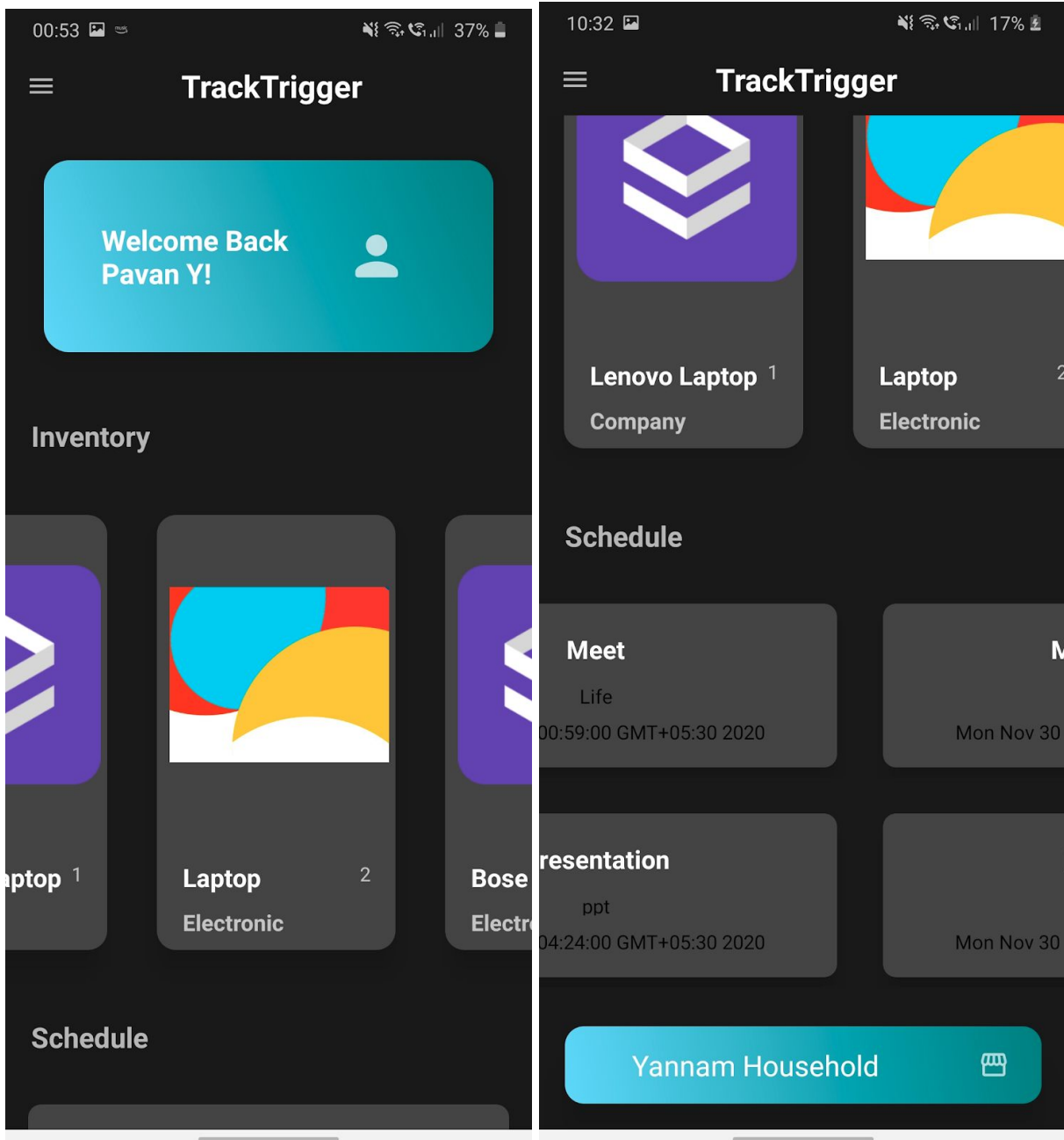


The image shows a screenshot of the Firebase Authentication console. The table displays a list of users with the following columns: Email, Phone Number, Created At, Last Signed In At, and UID. The data is as follows:

Email	Phone Number	Created At	Last Signed In At	UID
gg@gg.com		Nov 28, 2020	Nov 28, 2020	R4CMrPEZsqcng2yWnUf1w9mGL...
lol@ff.com		Nov 27, 2020	Nov 28, 2020	YWBpKhF7BcTTUfSAfddjyFiLZh2
dec@dec.com		Nov 27, 2020	Nov 27, 2020	b2RNZiMvEiOBALVHdc0B6CKRQfB3
abc@abc.com		Nov 25, 2020	Nov 29, 2020	cPcAIBL0gIAjPpJ4BJW3Y2fP2
lol@hh.com		Nov 27, 2020	Nov 28, 2020	lbCU2QaGadLgc5vRJs4QOYGN63
vineet.venkatesh.a6@gmail.co		Nov 28, 2020	Nov 28, 2020	ilUJupcnmfQhdTdxbfP08x76j2
ahah@hah.com		Nov 27, 2020	Nov 27, 2020	kKxKQh0EEbzvCM6pfw1fsyPCfN2
f20190107@hyderabad.bits-pil		Nov 29, 2020	Nov 29, 2020	mRP6iVdCNwNX2GxekmZKfugP...
yy@gg.com		Nov 29, 2020	Nov 29, 2020	oBfpld7PIGvmm2u1ZQTADOK3Pa2
abc@gm.com		Nov 27, 2020	Nov 29, 2020	oLd1zCpBVWQ6eeuF3XWLB6gr...
qwe@gm.com		Nov 27, 2020	Nov 27, 2020	qx0jCXZLsYeLZQ9LmHcP99LXMJ...
+919676316035		Nov 18, 2020	Nov 30, 2020	smtTfgNslvOBXcPyfHAPCxF5Vac2
ypavanrocks@gmail.com		Nov 18, 2020	Nov 30, 2020	y8Xs3TEK16WBSHv2wNq35v6UJ3
+919246155613		Nov 29, 2020	Nov 29, 2020	ySNpQmmnenTfX2SHfepgoSwcW...

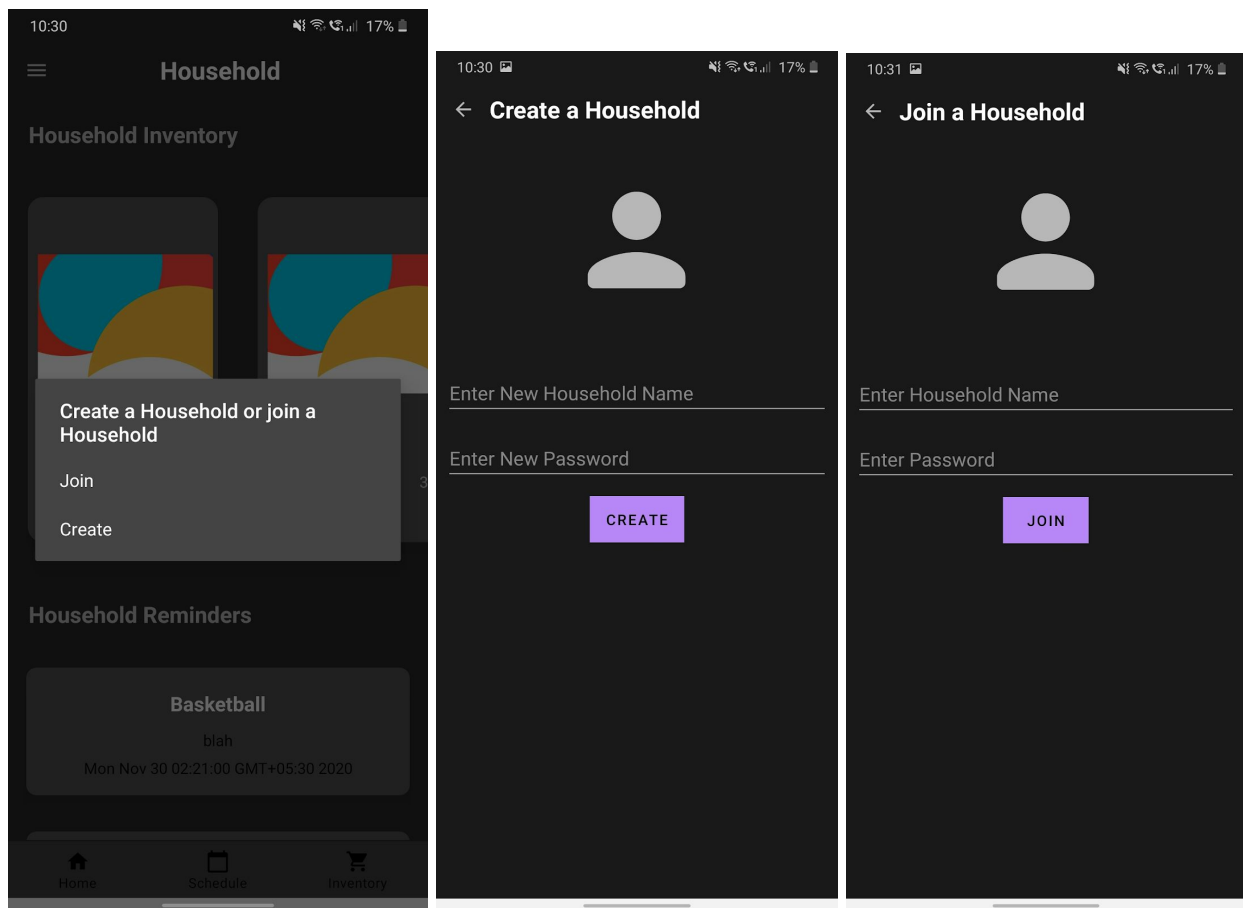
Home Page

Home page displays the summary of the items from your personal (work) schedule and inventory. We have used a Recycler view along with a card view to display items from inventory and to display the schedules. Basic information about your household.

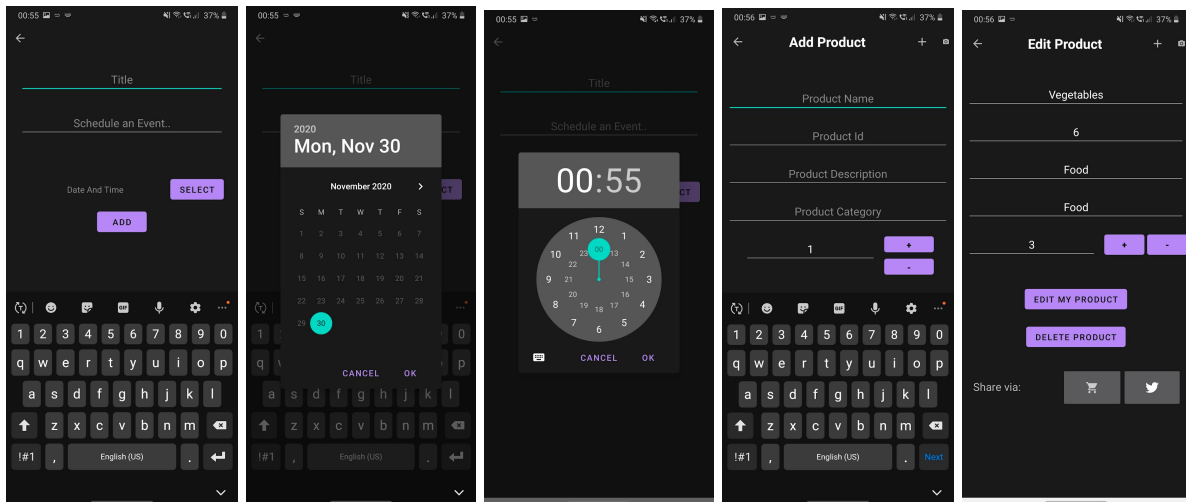
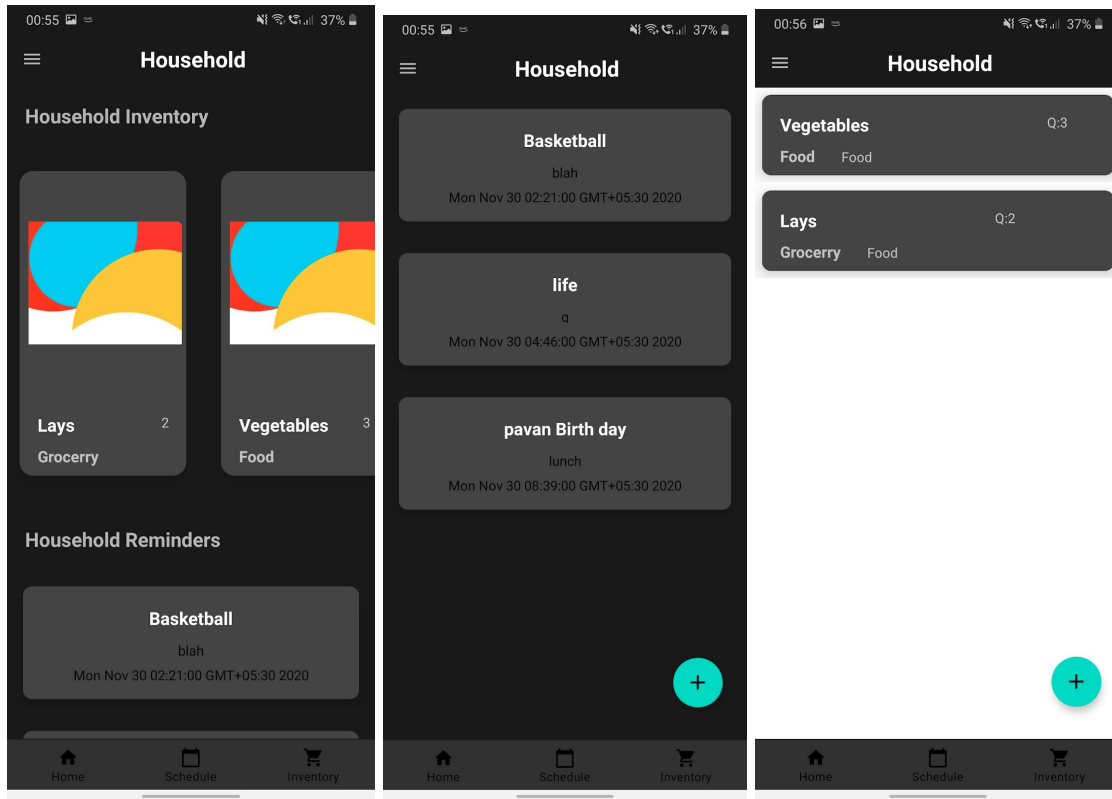


Household

Our household activity provides families with a special feature to form groups, so that all members in the household can access the information about their home storage and schedules. Each household will have a unique name and password which provides access to all members of that household. They can either create a household or join one as shown below.



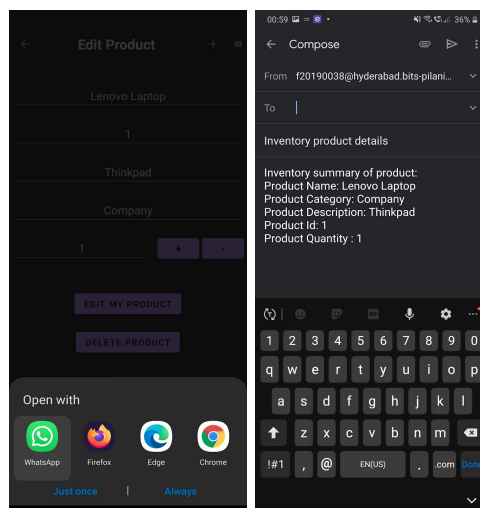
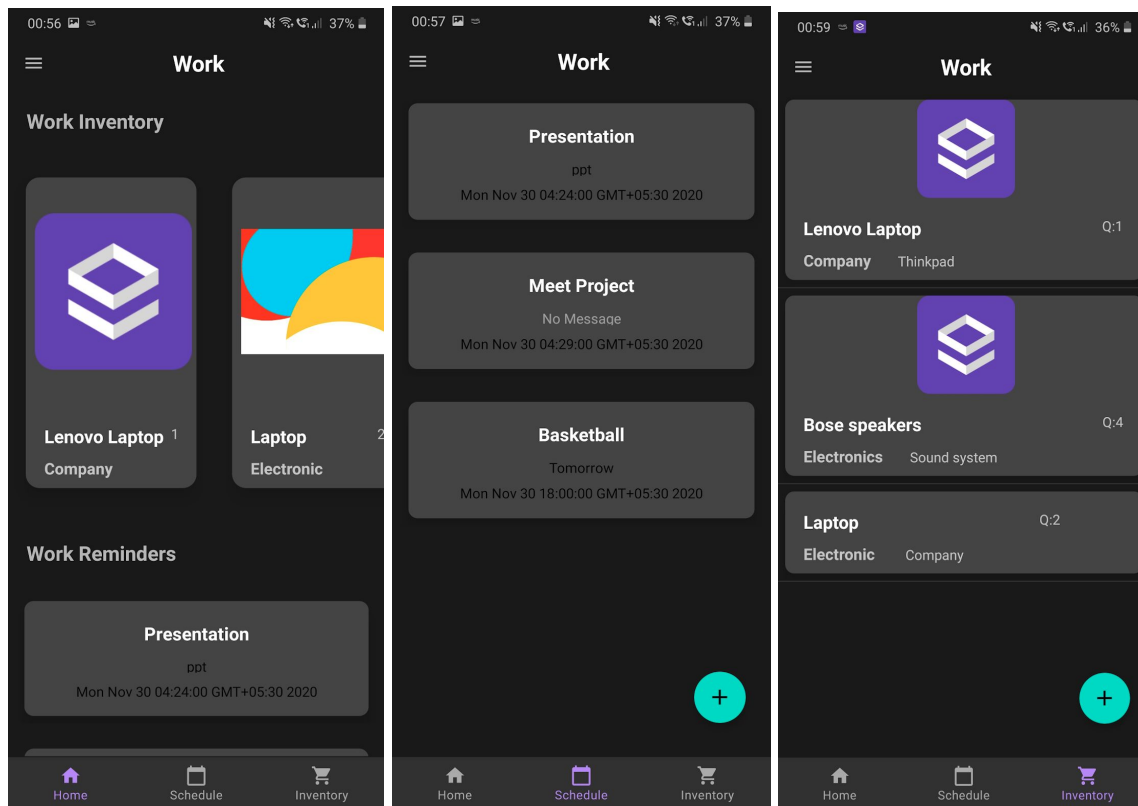
Household page has two main categories inventory and schedule.



We can add and edit all reminders and products. We can share the product information in our inventory via whatsapp or email. We can also add images from the gallery to the products. We also have a swipe to delete option enabled in our app.

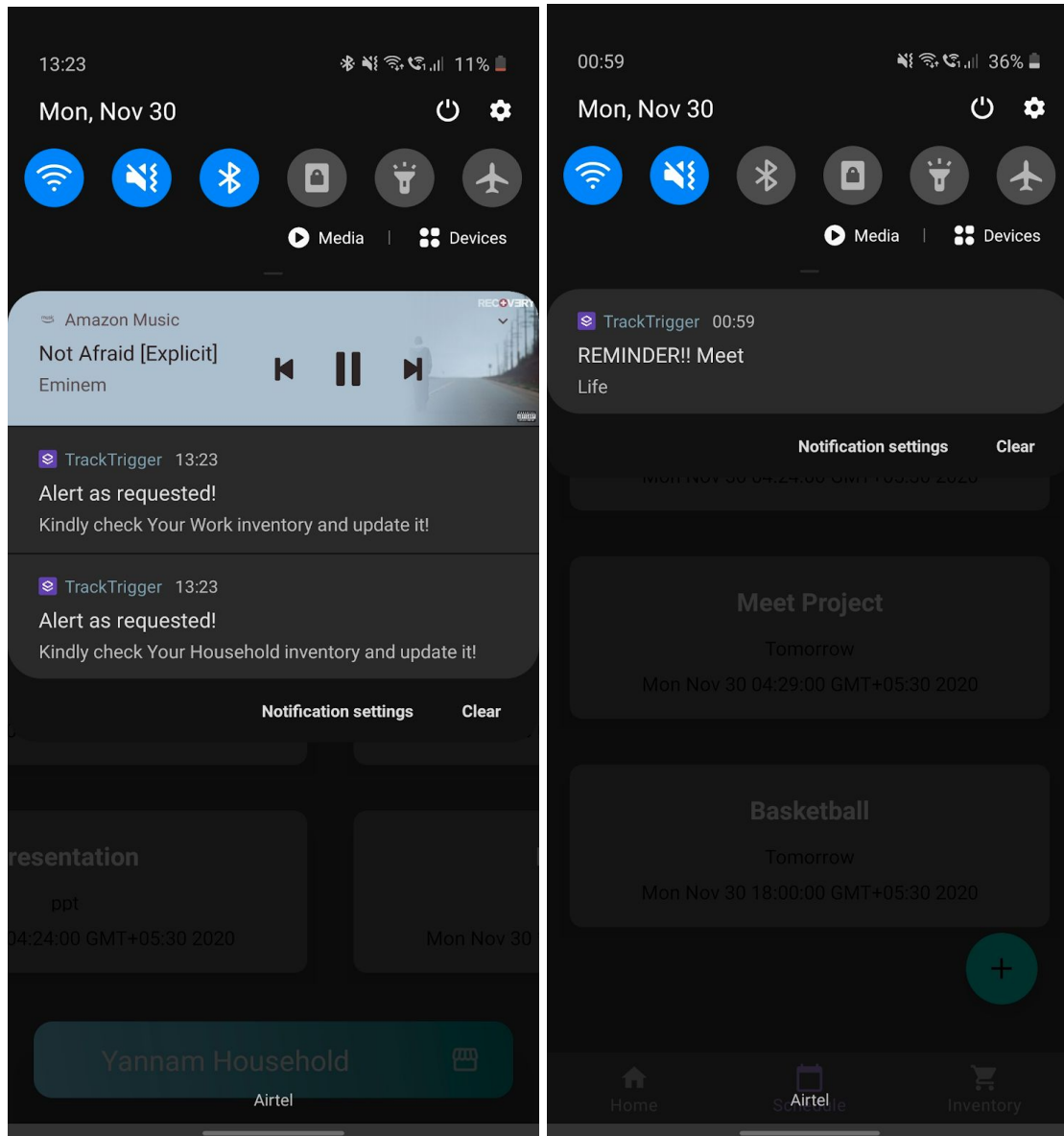
Work

Our work activity has features (inventory and reminders) similar to the household activity, but its a personal page and only he/she can access it. This would help the user separate their personal activities and professional activities.



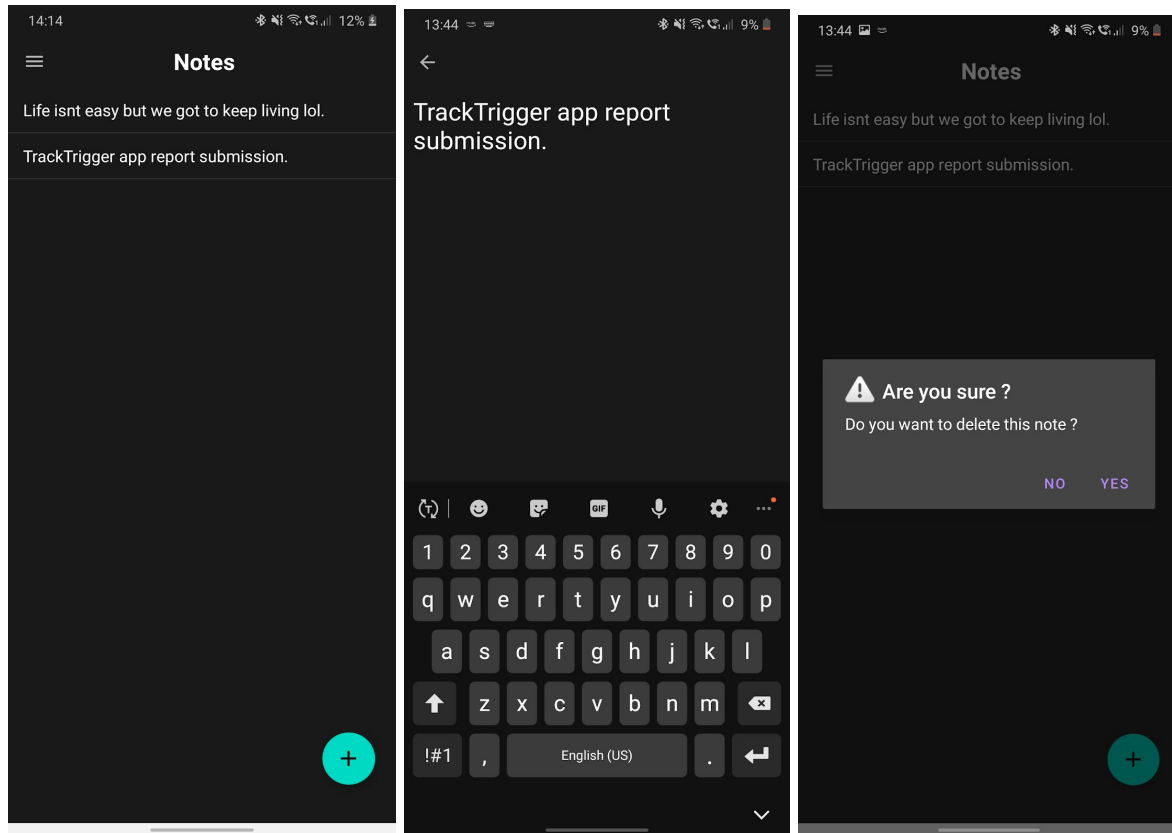
Push Notifications

Our app also has the push notification enabled for reminders and we will also get a daily/weekly notification, asking us to check our inventory.

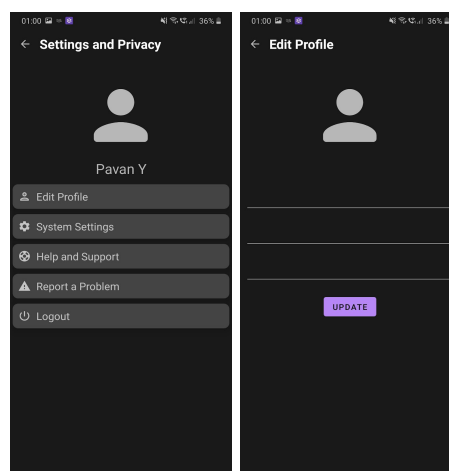


Notes

One can add, edit and delete notes. These notes are stored locally on our device.

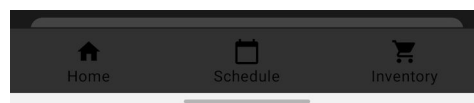
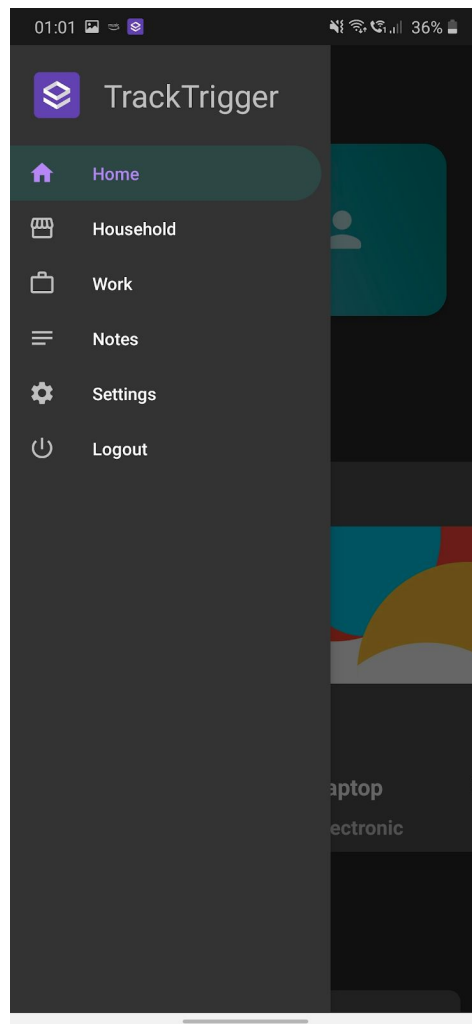


Settings



Navigation Drawer

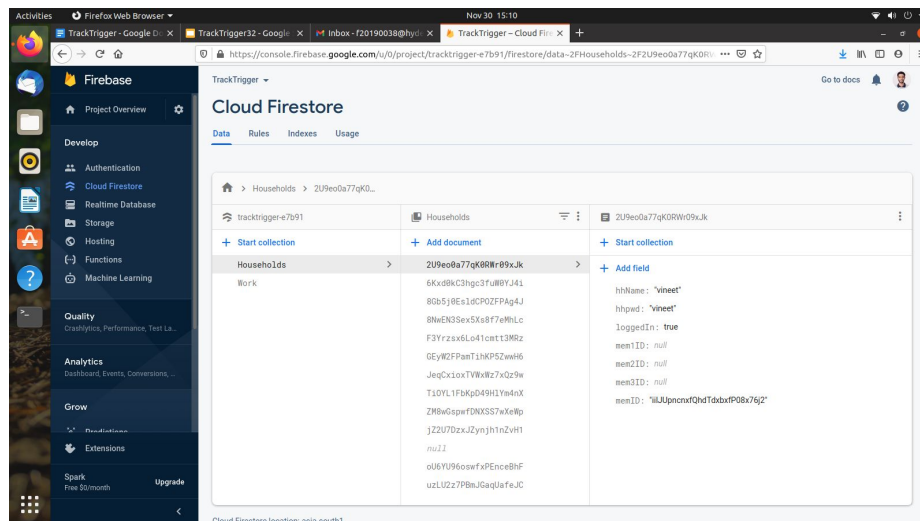
Navigation drawer and bottom navigation bar to navigate between activities and pages.



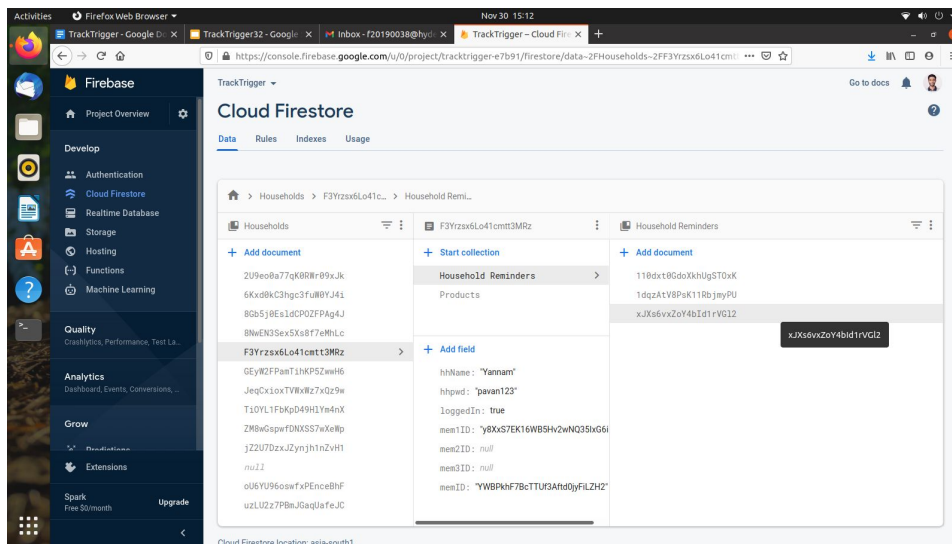
Backend

We have used a no sql firebase cloud database (Firestore) for our backend work. Firebase also offers free google analytic services which we plan to use in our future plans, wot deploy the app in local communities.

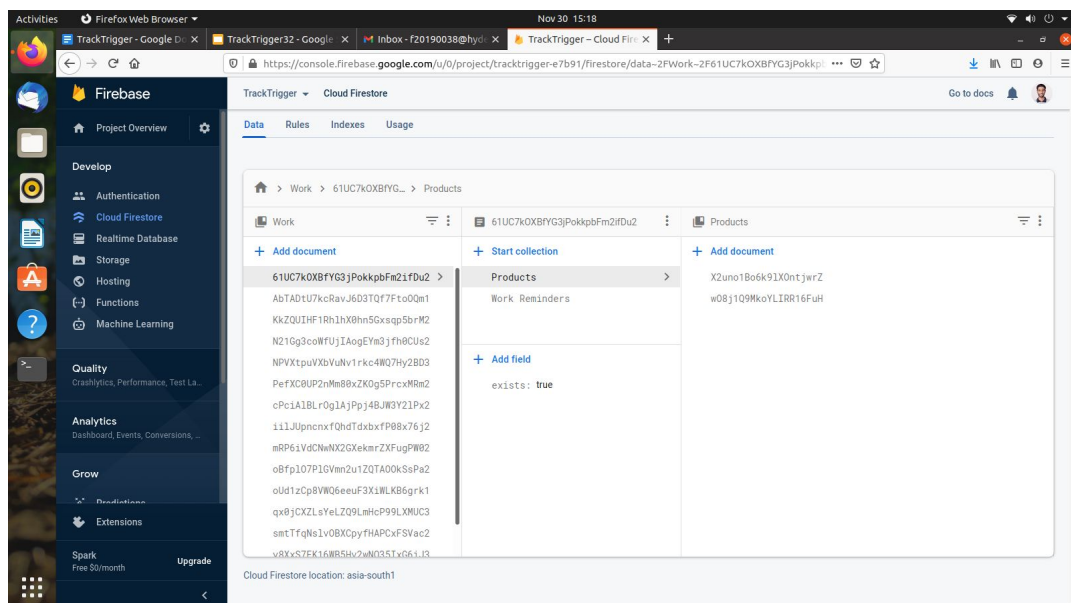
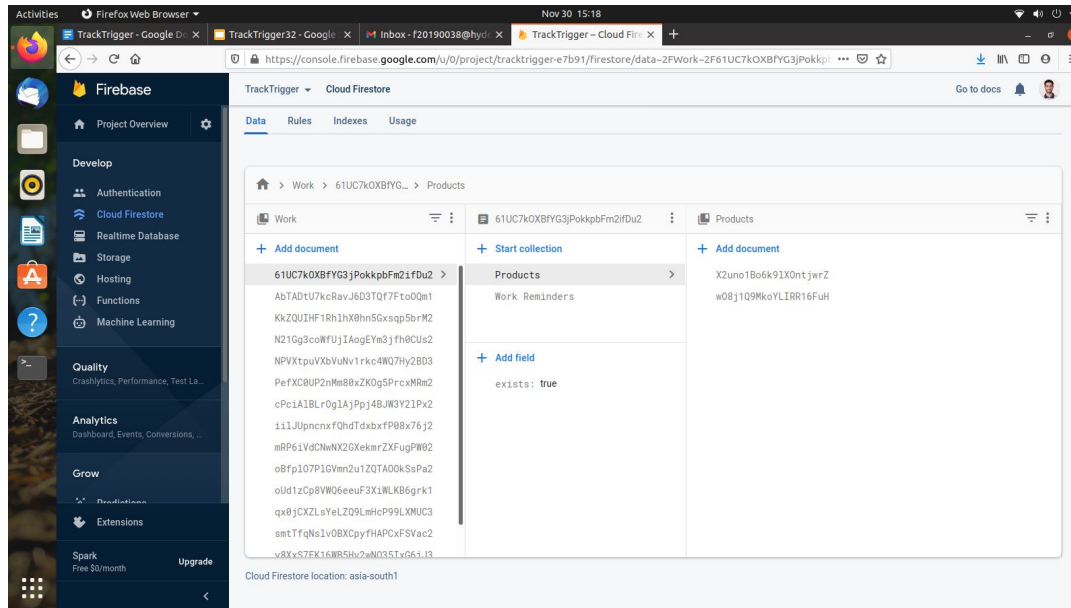
Our cloud is divided into two root collections: Household and Work.



Each Household root collection has a unique document (with a unique ID). Each of these documents is further divided into reminders and inventorycollections. Documents in these collections contain basic fields like time, title, product name etc.



Work root Collection contains documents with the Firebase user ID as the document ID. Therefore, each document is unique to a user. Each of these documents is further divided into Reminders and Inventory collections. Documents in these collections contain basic fields like time, title, product name etc.



THANK YOU