

How to Use this Template

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Submission Instructions

1. After you’ve completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it **“Capstone Project”**
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Trubian (Not final, may change)

Description

My college doesn’t has any app, communication between students and teachers is quite complicated and we are dependent on several other mediums to communicate. Same is the story of many colleges of India. So, here I’m trying to build an app that meets the requirements

of a college, will open source it so that other students too can contribute to it and we all can use it for our colleges without building from scratch.

Intended User

Students as well as there's a separate version for teachers also with some more rights than students. Initially, its going to connect around 3000 people of my college and will definitely try to convince other colleges too to use it. (Each institute will have its own version where most of the code will be same except for the database and some other features).

Features

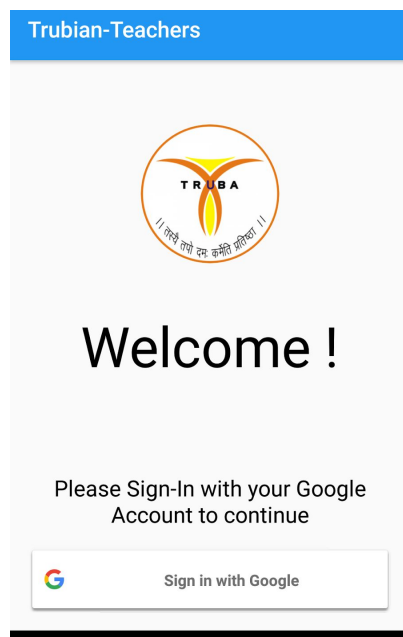
Its basically going to solve following problems :

- Information delivery system
- Shows calendars, time tables etc.
- News Feeds and also students can communicate to teachers directly via this app.

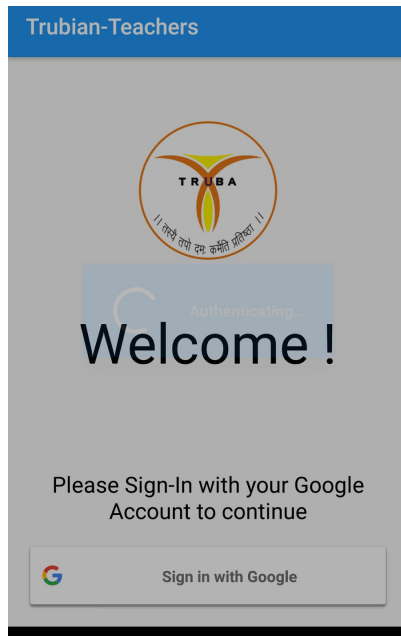
User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Sign In

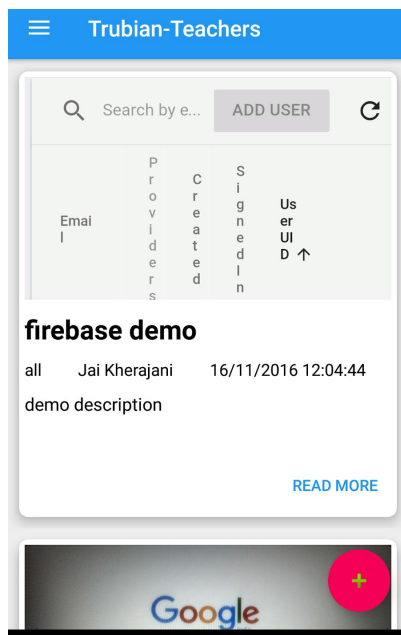


Sign in activity

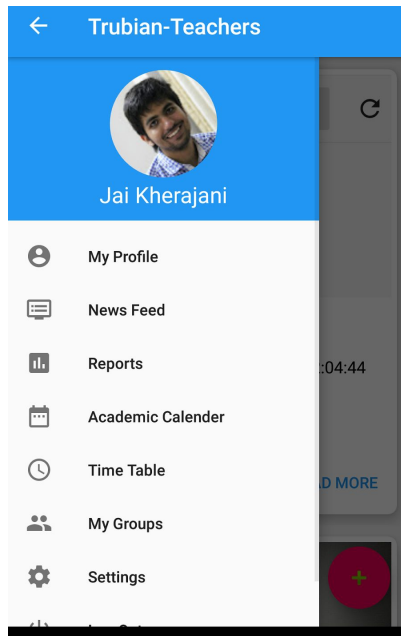


Loading screen while sign-in. Actually there's a progress dialogue but when i was taking screenshot it actually finished loading so it kind of has disappeared in the above image.

MainPage activity (after sign-in)

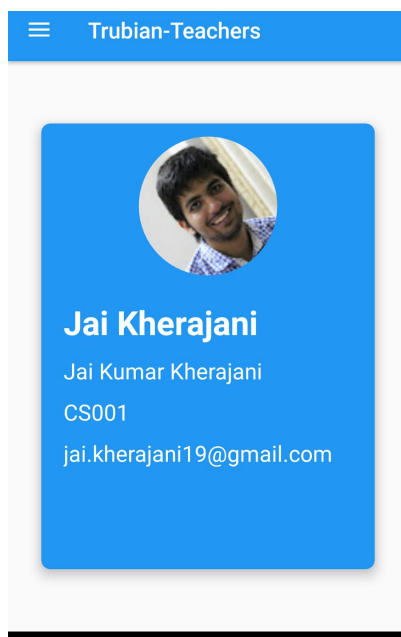


By default it will display newsfeed fragment whenever app will load. It has a fab button which will take user to create new news feed activity. This feature will be limited to teachers version only.



Navigation drawer in the main page activity to navigate to various features of the app.

Profile Fragment



Profile of the user is displayed here.

Key Considerations

How will your app handle data persistence?

Will use shared preferences to save some information locally, and firebase datasnapshot is also saved but its done automatically by a firebase method.

Describe any corner cases in the UX.

I don't know yet about it. I don't get this question.

Describe any libraries you'll be using and share your reasoning for including them.

Picasso or Glide to handle the loading and caching of images.
CircleImageView to display images in circular shape.
Firebase libraries to connect to the firebase at backend.
Support libraries for material design

Describe how you will implement Google Play Services.

Describe which Google Play Services you will use and how.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Setup all above mentioned libraries
- Read about how to connect apps to firebase
- Explore firebase console and various features it offers

Task 2: Implement UI for Each Activity and Fragment

- Build UI for mainactivity (Sign In activity)
- Build UI for mainpage activity (container to hold other fragments)
- Build UI of various fragments like NewsFeeds, Profile, TimeTable, Academic Calendar etc.

Task 3: Connect to Database

Connect to firebase, implement sign in and registrations of users.

Task 4: Implement nodes in database

Create desired nodes in the database and write code for each node in the application.
Will be used for features like group messaging and news feeds etc.

Task 5: Finishing touches

Bug fixes,
Create another version of the app with some special privileges to be used by teachers.

Add as many tasks as you need to complete your app.

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