Discuss on drawings app(DODA)

Introduction

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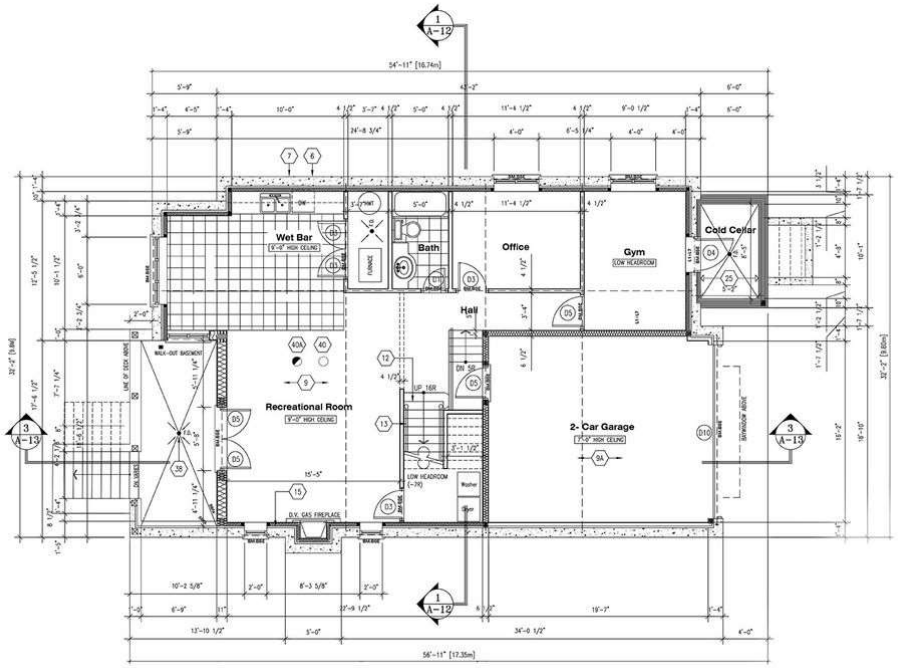
Introduction

Time estimation: 2 Days

> ⚠️ Read the details in the question thoroughly so that you can understand what to be built. Also read, how an Android submission is evaluated and how to submit the assignment, this will help you plan and prioritize better.

Problem statement

In a construction project, architectural drawings(refer image below) are developed before actual on-ground work start. Once drawings are developed, all planning, discussion, and reporting happen over drawings.



It becomes quite difficult to collaborate on the drawings when people are not in the same room. Your friend, Vivek who works at a construction firm, Tornado asks you to help him solve this problem.

Tech-stack

Use the following tools, language, and APIs to build the app(*optional) -

- Tool: Android Studio and language: Java/Kotlin
- Libs and components: Retrofit, Butterknife, Dagger*, Material UI*, MVVM pattern*, Constraint Layout*(if required)
- **Use either of Firebase / Room to store data**

Features

⚓ **Marker:** Markers are used to mark a location on drawing images with some content like text, images, person, discussion thread, etc.

Mandatory features

1. Add a drawing with drawing name
2. Show a list all drawings added with each drawing's name, addition time, thumbnail and number of markers added
3. In drawing profile, show all the markers added on the drawing image with pinch-zoom to resize an image
4. Click on existing marker to see its details in bottom sheet

5. Double tap on image to add a new marker with title and details

Bonus features

1. Show all markers of a drawing in a list with title, description and creation time
2. Show all times in social format like `few minutes ago`, `an hour ago`, `at 6 PM`, `a day ago` etc

Coding Guidelines

1. Write clean code with proper variable naming and code structure.
2. Create a git repo. Create small commits with proper commit messages. Upload code to GitHub.

How to submit

1. Reply to the recruitment call mail thread with Zip of APK file and the project Github link.
2. If any instruction to use the app is required, write them in README.md file and upload it to the root folder of the project along with code.

Evaluation process

The submissions are evaluated manually by an expert. The evaluation parameters include the following:

1. Functionality of the app
2. Design aesthetics.
3. Code readability - How clean and well structured the code is.
4. Standard libraries and components used in the project.