

How to Use this Template

1. Make a copy [File → Make a copy...]
2. Rename this file: “**Capstone_Stage1**”
3. Replace the text in green

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**”
3. Add this document to your repo. Make sure it’s named “**Capstone_Stage1.pdf**”

[Description](#)

[Intended User](#)

[Features](#)

[User Interface Mocks](#)

[Screen 1](#)

[Screen 2](#)

[Key Considerations](#)

[How will your app handle data persistence?](#)

[Describe any corner cases in the UX.](#)

[Describe any libraries you’ll be using and share your reasoning for including them.](#)

[Describe how you will implement Google Play Services.](#)

[Next Steps: Required Tasks](#)

[Task 1: Project Setup](#)

[Task 2: Implement UI for Each Activity and Fragment](#)

[Task 3: Your Next Task](#)

[Task 4: Your Next Task](#)

[Task 5: Your Next Task](#)

GitHub Username: josecostamartins

Reddit Feeder (not original, I know)

Description

Design an app that allows a user to indicate a set of subreddits that they would like to follow and store. (Please make sure that your app only pulls content from SFW, or safe for work, subreddits!) Your app should present them with a post from one of their selected subreddits. They can interact with the post (i.e. view image posts, play video posts, etc) or they can dismiss it to receive another. You should display comments (or a

subset), thumbnails, and comment text and links. You should use intents to communicate with the Android apps, components, and services that you don't want to or cannot implement. For instance, to view a link, you could use a WebView or you could send an Intent to the browser.

Intended User

Reddit user.

That's a really broad spectrum, but they generally tend to be computer literate and work with technology.

Features

- Show subreddits
- Allow user to search subreddits
- Allow user to add subreddit to follow
- Save list of user followed subreddits
- Download data from user subreddits
- Allow user to interact with subreddit

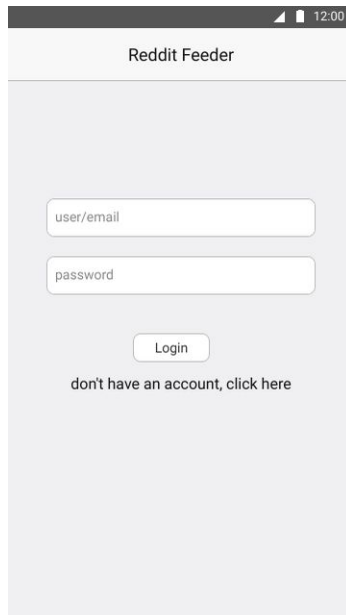
User Interface Mocks

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.

An interactive flow of the app navigation can be seen here:

<https://mockingbot.com/app/YE4iAiWiC8qGqmlvhwlLq90yYZ28y8B>

Screen 1



Reddit Feeder

user/email

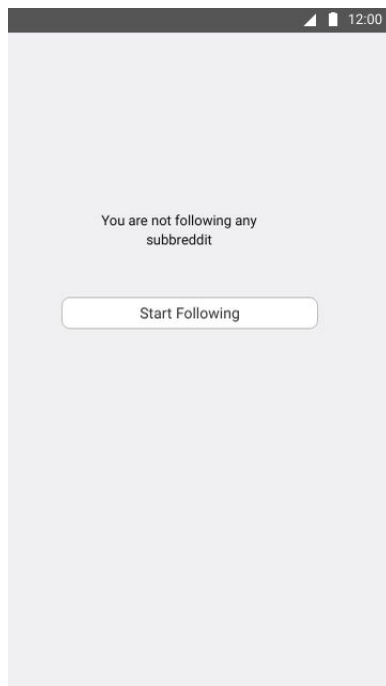
password

Login

don't have an account, click here

Welcome screen, user can login or can be redirected to reddit to create an account.

Screen 2

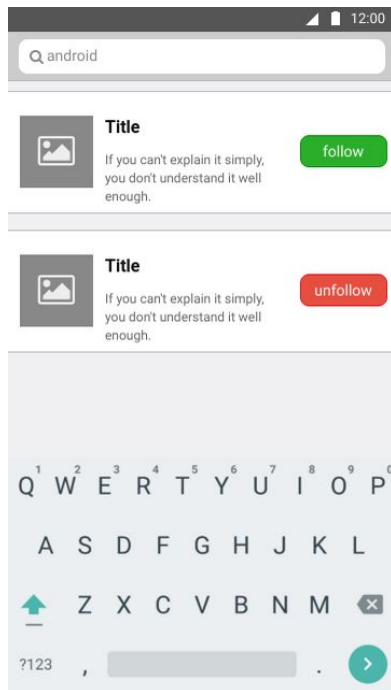


You are not following any
subreddit

Start Following

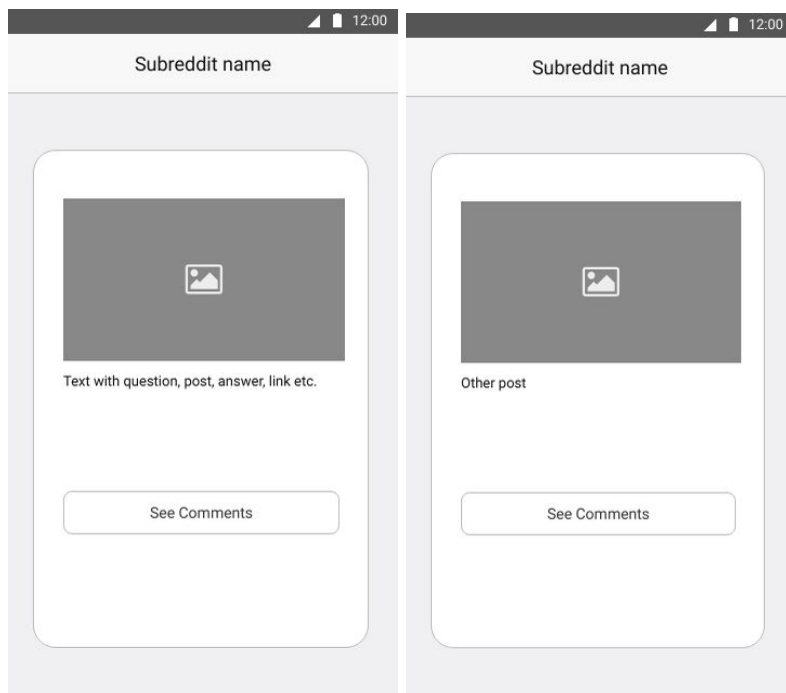
User did login but has no subreddits saved or is not following any subreddits

Screen 3



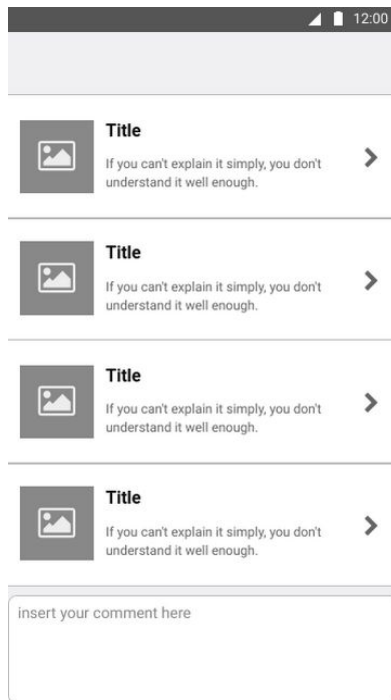
Search screen, user is searching for subreddits to subscribe to or follow

Screen 4



Actual subreddit post, user is shown the post and has the option to see the comments, user can skip post and go to another (maybe a page control view)

Screen 5



Comments screen where the user can add comments

Key Considerations

How will your app handle data persistence?

Right now i'm thinking of using the new google architecture packages for data persistence, so I'm thinking of using Room (<https://developer.android.com/topic/libraries/architecture/room.html>) I do not intend to right a content provider because I don't intend to share my app data with other apps.

I also intend on handling Live data updates with the new google architecture components

Describe any corner cases in the UX.

Right now, I'm thinking in a good way to show comments and its answers since nested lists is not going to be really good. Also, handling multiple types of data like video, audio and web pages might be a problem considering they not always appear in a controlled manner (specially comments)

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

I will use glide to handle image loading (app may not have to many images)
I will use OKHttp
Maybe will use Retrofit
I will use the new Architecture components made from google:
<https://developer.android.com/topic/libraries/architecture/adding-components.html>

Describe how you will implement Google Play Services.

I'm will be using google analytics and maybe ads for my app

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

Write out the steps you will take to setup and/or configure this project. See previous implementation guides for an example.

You may want to list the subtasks. For example:

- Configure libraries
- Create user stories

If it helps, imagine you are describing these tasks to a friend who wants to follow along and build this app with you.

Task 2: Implement Architecture

Create the data modeling and the database architecture, the way data is synced, stored and manipulated

Describe the next task. List the subtasks. For example:

- Create Models (java beans)
- Create database
- Create Live Models

Task 3: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for LoginActivity
- Build UI for MainActivity
- Build UI for SearchActivity
- Build UI for CommentsActivity

Task 4: Google Services

Implement google analytics for android and google ad mob also implement some sort of crash report (fabric and crashlytics)

Describe the next task. List the subtasks. For example:

- Add google services
- Create keys
- Create calls for each activity
- Add Crashlytics
- Add AdMob

Task 5: Publish the app

Publish the app in the play store

Describe the next task. List the subtasks. For example:

- Create screenshots
- Create release apk

- Upload to google play store
- Pray don't have any crashes

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

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**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"