GitHub Username: BenjaminEarley

MySubs

Description

The user subscribes to a large number of subreddits, finds it hard to keep up with them, and has long stretches where some are neglected. He/she wants a way to get posts from all of them equally.

The app will allow a user to add his/her favorite subreddits and distribute posts from them equally in a list. Each subreddit will be collected in order of popularity. This allows the user to keep up all of of his/her favorite subreddits without the more popular subreddits drowning the others out.

Intended User

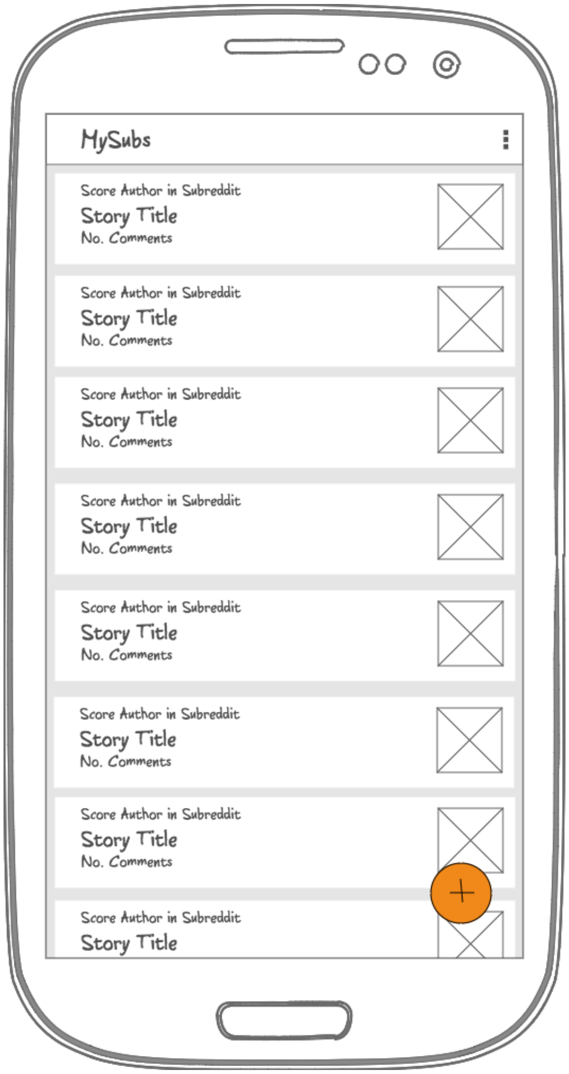
My Intended userbase is anyone who loves to use reddit and follows particular subreddits. It can be easy for /r/androiddev to be drowned out by /r/funny and spend an hour only looking at cat gifs when he/she could have learned about how thread handlers work.

Features

- Saves favorite subreddits
- Shows a list of posts for all subreddits with thumbnail preview
- Allows user to view individual posts with content and comments

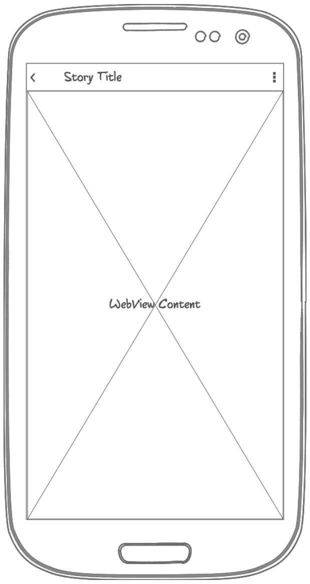
User Interface Mocks

Screen 1


MySubs
Score Author in Subreddit
Story Title
No. Comments
Score Author in Subreddit
Story Title
No. Comments
Score Author in Subreddit
Story Title
No. Comments
Score Author in Subreddit
Story Title
No. Comments
Score Author in Subreddit
Story Title
No. Comments
Score Author in Subreddit
Story Title
No. Comments
Score Author in Subreddit
Story Title
No. Comments
Score Author in Subreddit
Story Title

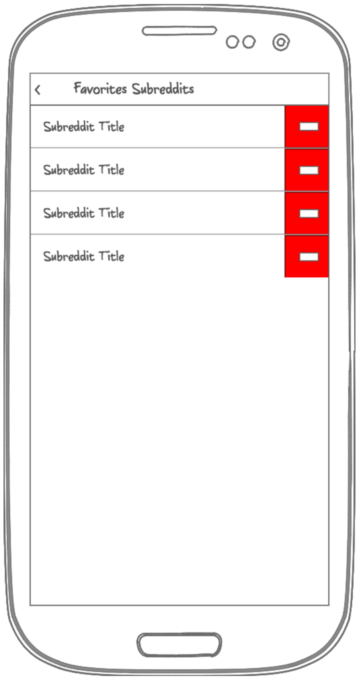
This is the main activity of the app. Here, the user will be able to see his/her subreddits posts evenly distributed by popularity. The fab will be used to add favorite subreddits to follow. The overflow menu will have an option to show subscribed subreddits (screen 3).

Screen 2



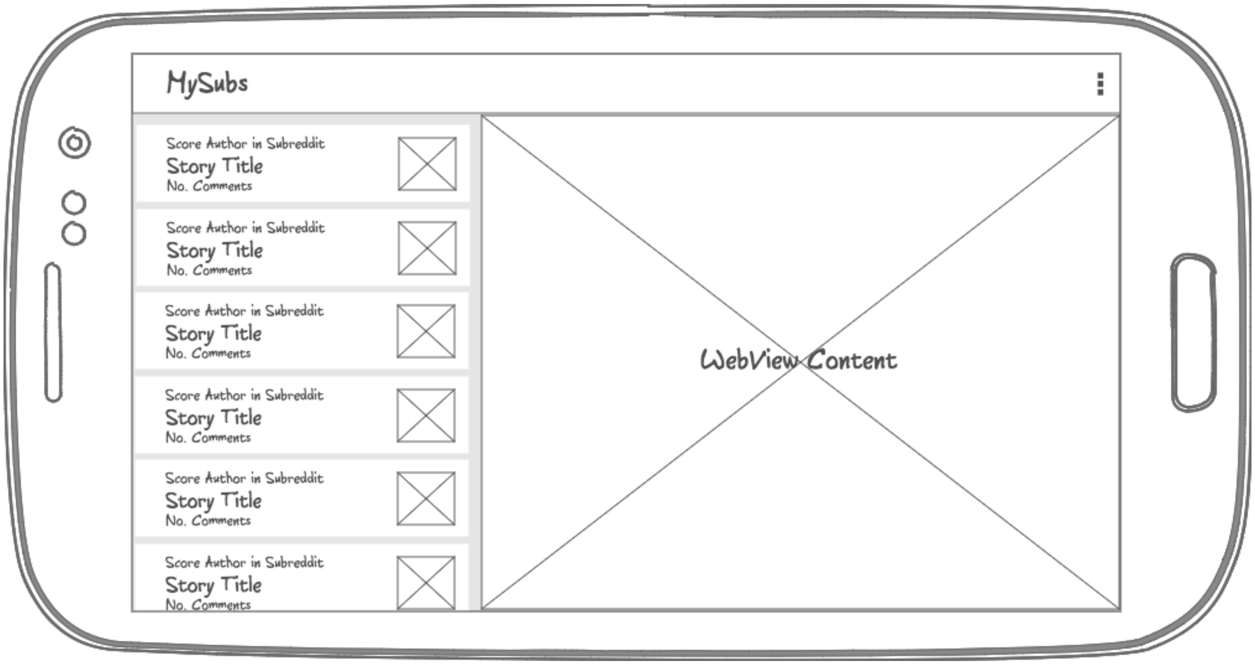
This screen is navigated to by choosing a post on screen one. This will show the mobile friendly website of the post in a webview filling up most of the screen. The overflow menu will contain an option to navigate to the browser to show the content.

Screen 3



Here, the user can remove subreddits he/she does not want to follow any longer. This will remove all content from the app for those subreddits. Will look very similar on a tablet. Will most likely be built with a fragmentDialog and be a dialog on tablet.

Screen 4



The tablet view of the app with a master detail flow. The web content will be the content of the selected story.

Key Considerations

How will your app handle data persistence?

The app will contain its own ContentProvider with a sqlite database. The reddit API will be used to gather the user's desired data.

Describe any corner cases in the UX.

The user experience should be pretty straight forward. The fab on the list of posts will allow a user to add desired subreddits. Viewing subscribed subs can be navigated to from that screens overflow app bar menu. When a post is selected and the webview is shown, an overflow menu option will allow the user to open up the content in his/her browser. This can be navigated out of with the back button or relaunching the app.

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

- Glide: For downloading the thumbnail images for each post in the list
- Retrofit 2: For making network requests to reddit with

- AppCompat-v4: For the core appCompat libraries
- AppCompat-v7: For more of those awesome compat APIs
- CardView-v7: Backwards compatibility for the material design cards
- RecyclerView-v7: Backwards compatibility for the recyclerView
- Support Design library: For all those material design parts that make apps look and feel good
- Support CustomTabs library: May be used for a better webView experience when viewing a post’s content
- GPS Analytics: For tracking usage of application
- GPS App-Invites: To make to easy for users to share the app with friends

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

- Configure libraries
- Configure gradle correctly with keystore for release build
- Set up proguard for libraries
- Set up Google Analytics

Task 2: Implement Restful Service With Retrofit

- Build POJOs for expected json objects
- Lay out needed endpoint interfaces to be used later

Task 3: Implement Local Cache Layer

- Implement SQLite DB and contract
- Implement Content Provider for DB
- Implement SyncAdapter to keep the data fresh

Task 4: Implement UI for Each Activity and Fragment

- Build UI for MainActivity (Where followed subreddit posts will live)
- Build Dialog for adding subreddits
- Build UI for Webview
- Build UI for list of Subreddits

Task 5: Final Improvements and Polish

- Implement App-Invites GPS service
- Handle Error Cases in App
- Clean up rough edges and add any delightful details or animations