GitHub Username: codepete

Reddit Zen

Description

Reddit(http://reddit.com) is an entertainment and social networking site where community members can create posts and submit links in themed areas called "subreddits." Reddit Zen will allow users to manage all their subreddits and allow them to browse through content available in those subreddits.

Problem:
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 news/posts/threads from all of them equally.

Proposed Solution:
Design an app that allows a user to indicate a set of subreddits that they would like to follow and store. The app will present them with posts 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. Posts will show comments (or a subset), thumbnails, and comment text and links.

Intended User

Anyone and everyone 17+. NSFW content will be filtered by default, but Reddit still contains mature content.

Features

- Add/Remove subreddits (if you have an account)
- View/Add posts for subreddits
- View comments or subset of them
- View profile information and messages
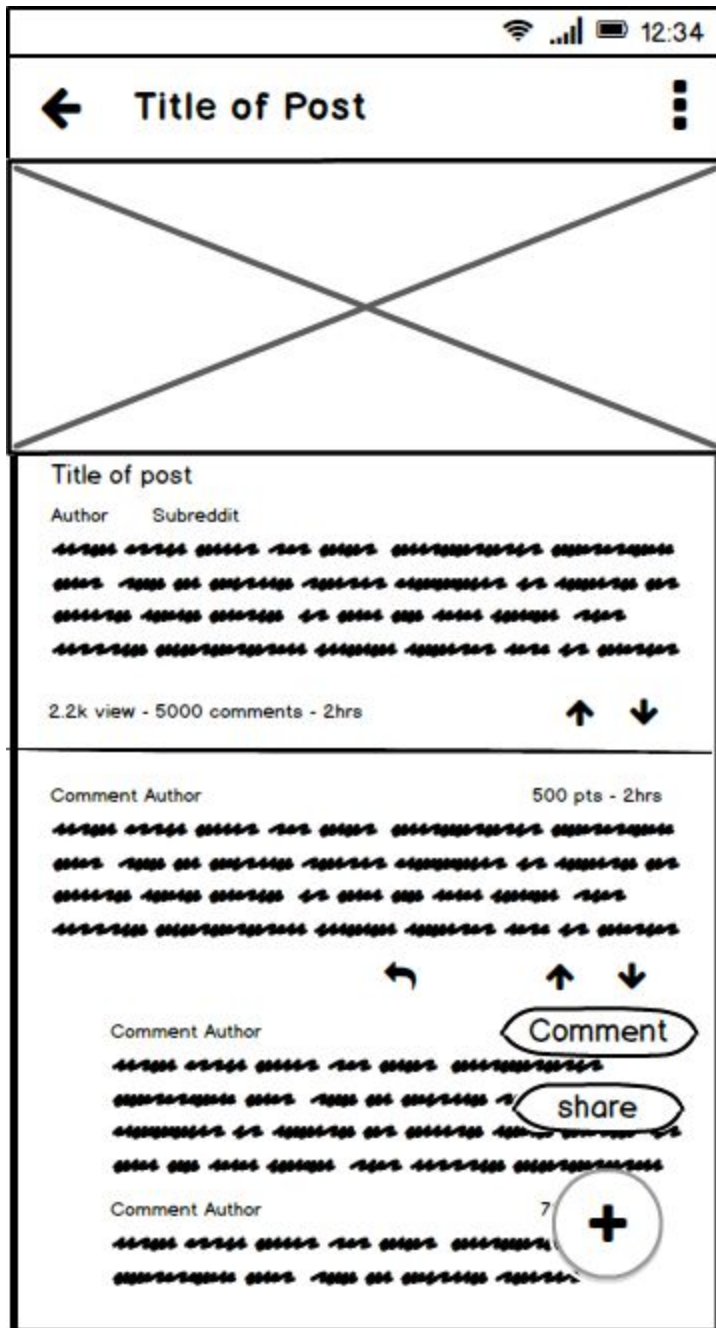- Post or reply to comments

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.
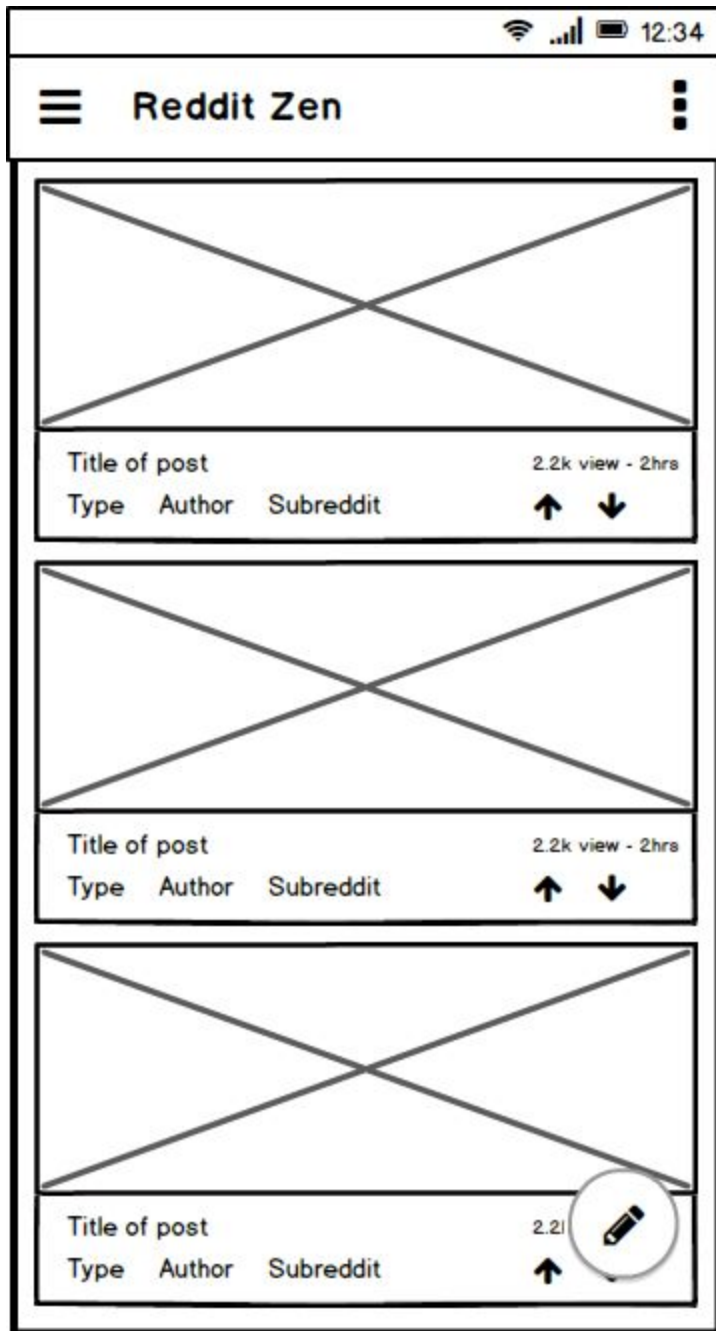
This is generally what a user will see when viewing a subreddit and/or frontpage
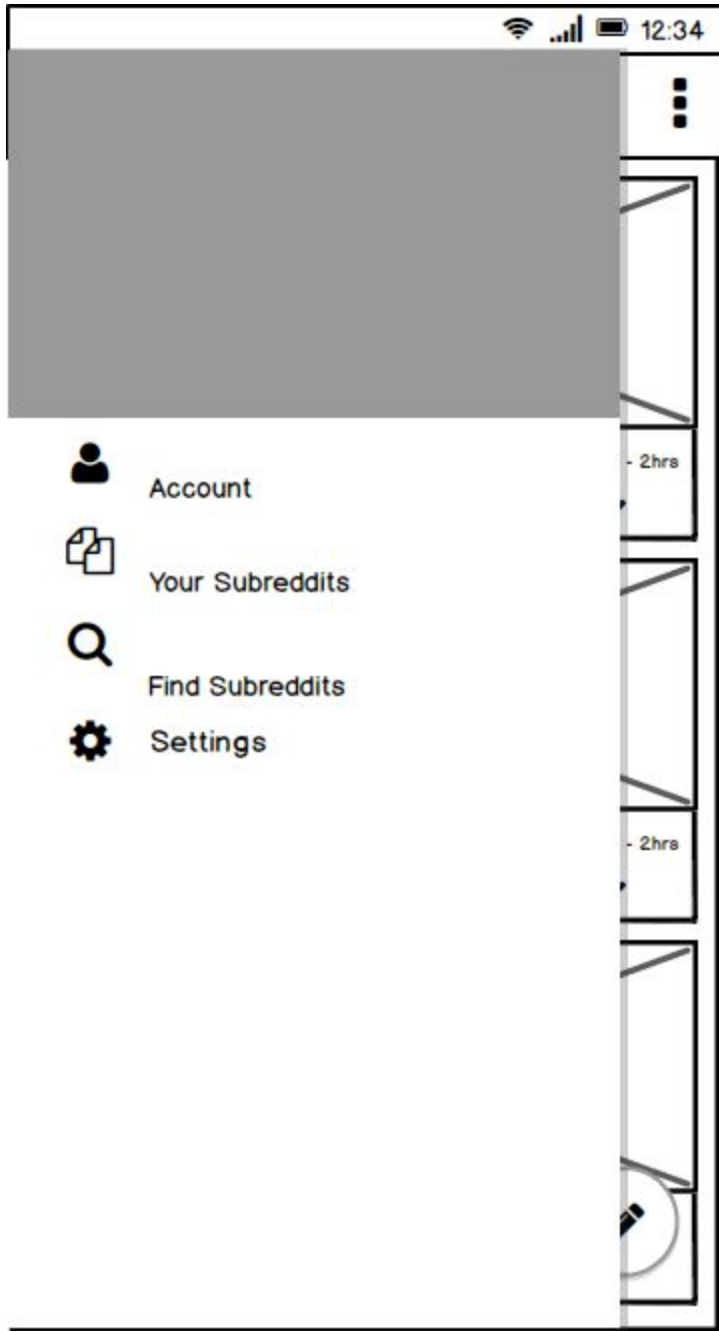
This is what the navigation will look like

This is detail view of clicking into a post - preview of post content, comments, and fab for share and replying/commenting. Clicking on the preview/link/image will take a user to a webview.

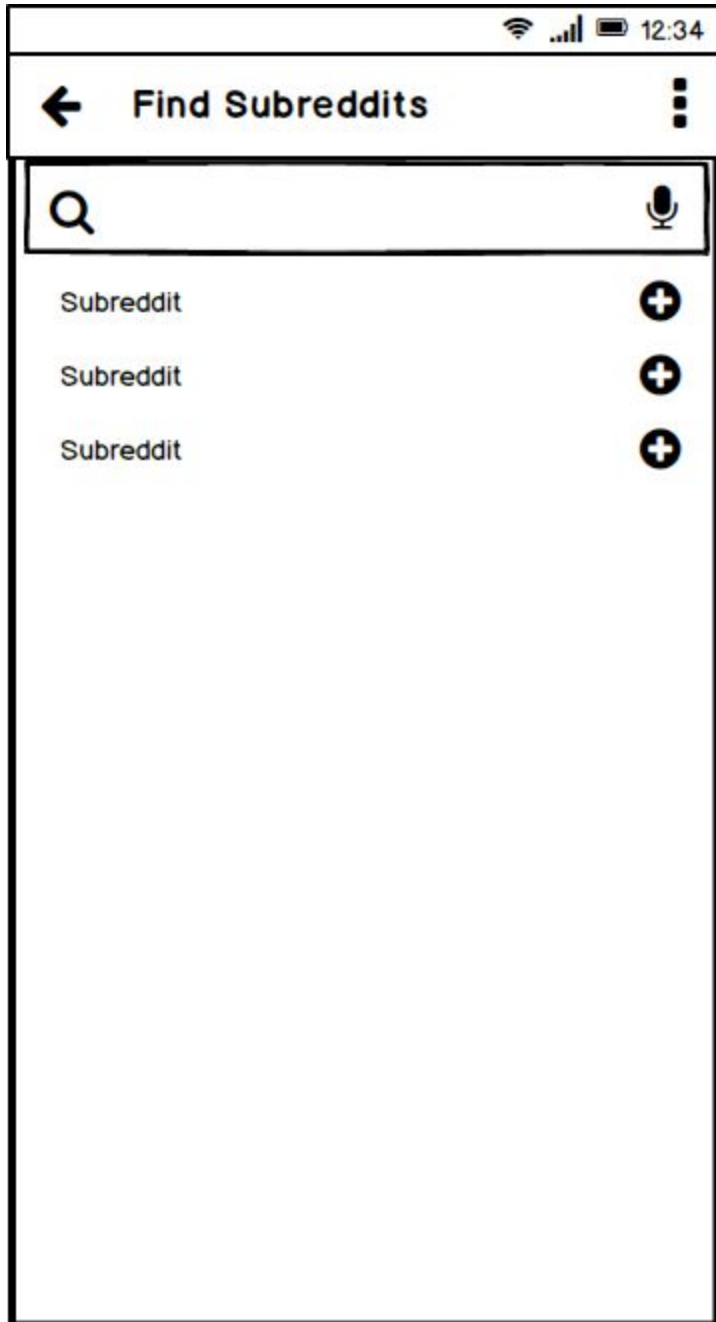This is the screen a user will generally see when they want to post to a subreddit or reply/comment.

This the view the user will see when they click "Find Subreddits". It provides users with a quick action to add subreddits they see.
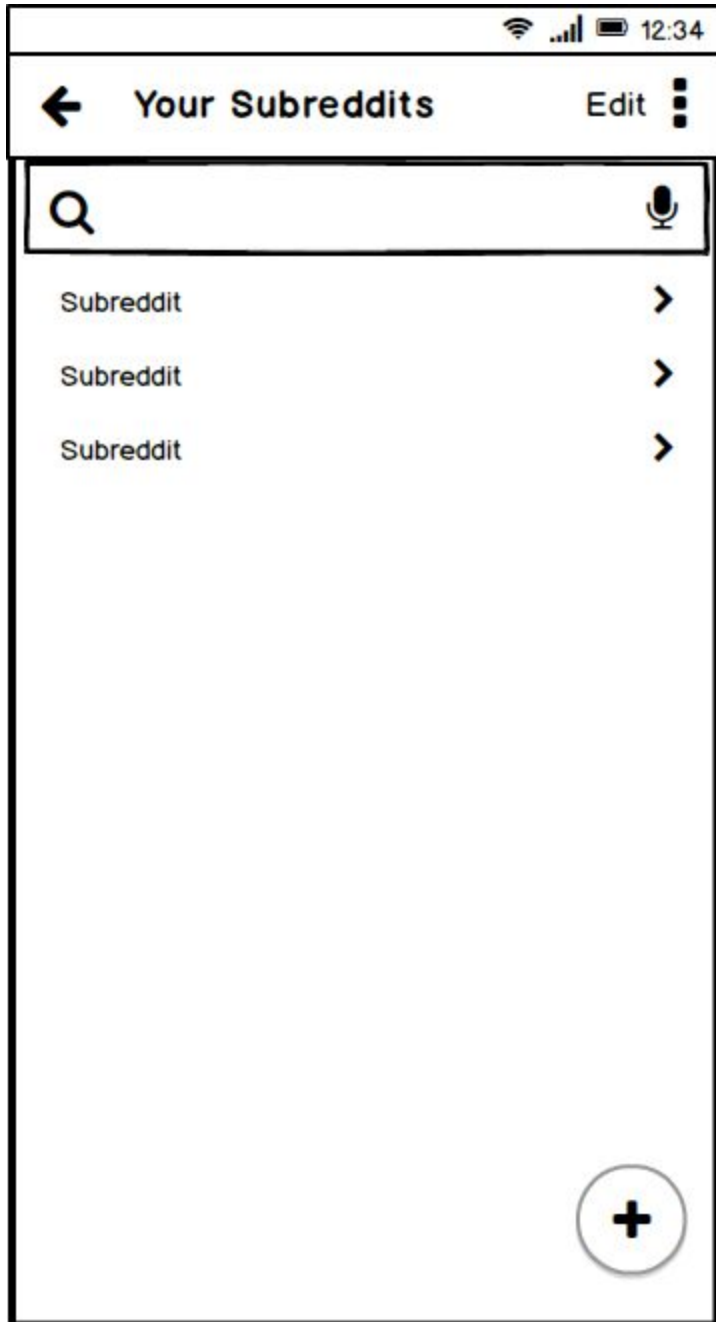
This is what a user will see when they view "Your Subreddits". The fab button will send them to "Find Subreddits".
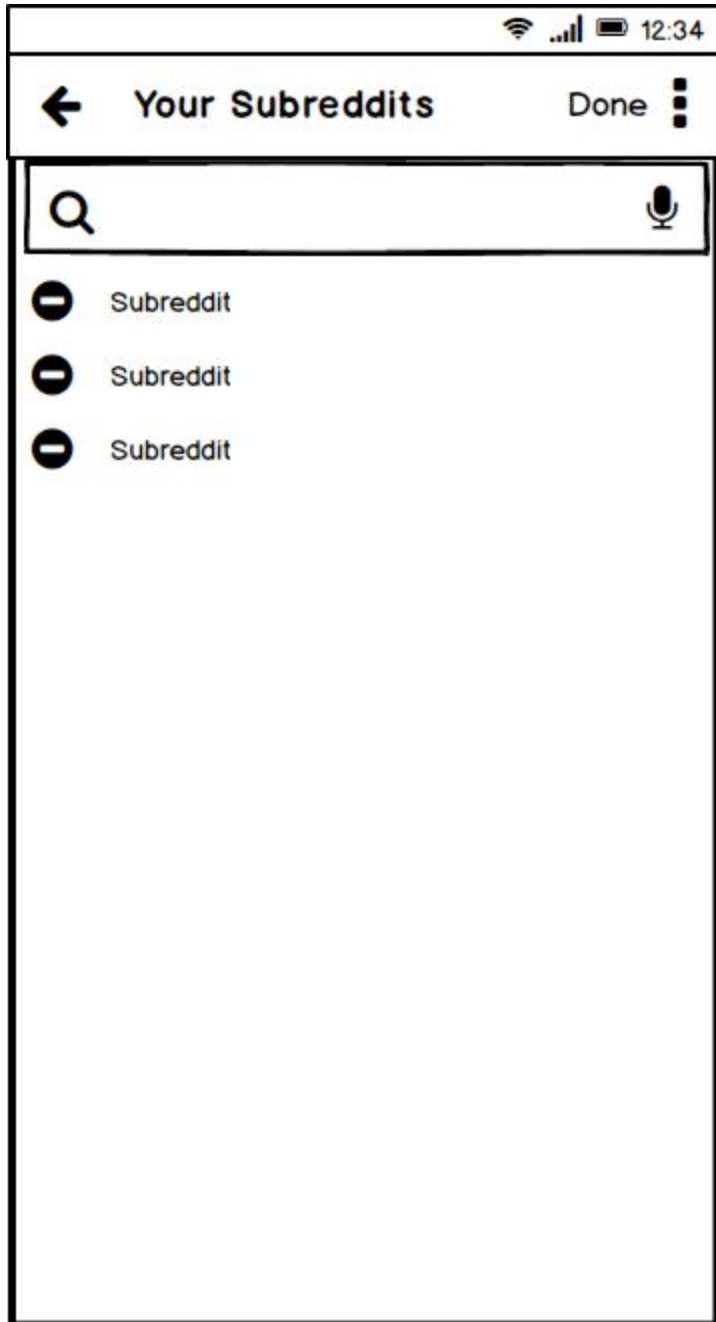
This is what happens when a user clicks edit in the "Your Subreddits" screen. It will allow them to quickly remove a subreddit.

Key Considerations

How will your app handle data persistence?

Content Provider since its required.

Describe any corner cases in the UX.

I think managing the flow of the screens should be straightforward. However, I think displaying or loading gifs might be a challenge.

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

- Picasso - image loading and caching
- Retrofit and OkHttp - for making network calls and managing connection pool
- RxJava - to avoid AsyncTask and too many callbacks. Simplifies code in general.
- Dagger 2 - to manage dependencies and avoid having to pass around context everywhere
- Butterknife - to remove boilerplate code for retrieving views from layout

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

- Look through Reddit API to figure out what models we need to stub out for Retrofit.
- Setup Dagger for common dependencies that we will need to inject - i.e. application context, retrofit client, okhttpclient, etc.
- Setup folders by feature

Task 2: Implement UI for Each Activity and Fragment

Build UI For
- MainActivity that will display content from subreddits
- Detail view for displaying posts and comments
- Profile view for showing profile info
- Settings view to configure app
- Posting view for replying to comments or creating a new article/picture for a subreddit
- Navigation View for quick access to subreddits or any other activities/fragments available to user

Task 3: Data Persistence

- Setup ContentProvider and Sqlite db for data models coming in from Reddit API
- Since none of the information in Reddit is necessarily pertinent information there won't be syncing of data. The data will fetched and stored when the user opens the app. There may be an exception of handling syncing of messages for users, but that's optional for now.

Task 4: Tablet View

Go through existing views optimize for tablet

Task 5: Accessibility & Material

- Ensure images and controls have content descriptions where possible.
- See where we can add transitions or animations where possible