

### How to Use this Template

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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.

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

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## Browser for Reddit

### Description

#### Context

Reddit.com is a social networking website where registered users can post content such as direct links or text posts. These posts can be made in user made sections called subreddits. Registered users can upvote or downvote posts which will make them more/less visible to other users.

### **Problem**

The user is new to reddit and does not have an interest in many features like posting or voting and just wants to read a small number of subreddits communities on a simple material designed app.

### **Solution**

Design an app for Reddit.com that is lightweight and easy to choose what subreddits that should be displayed. Users can select a post from the list to allow them to read the comments or interact with the content of the post (Open a video link). Intents should be used to open content related to other apps such as YouTube links

## **Intended User**

New reddit user that has no intention to post anything or upvote/downvote and just wants to read a custom set of subreddits. Could be a male/female of any age.

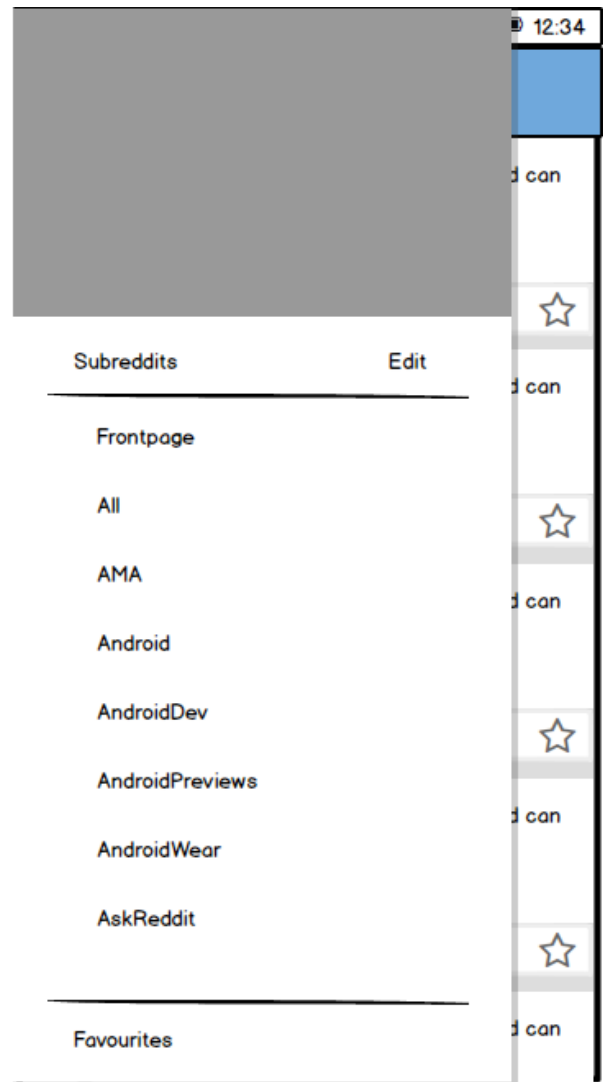
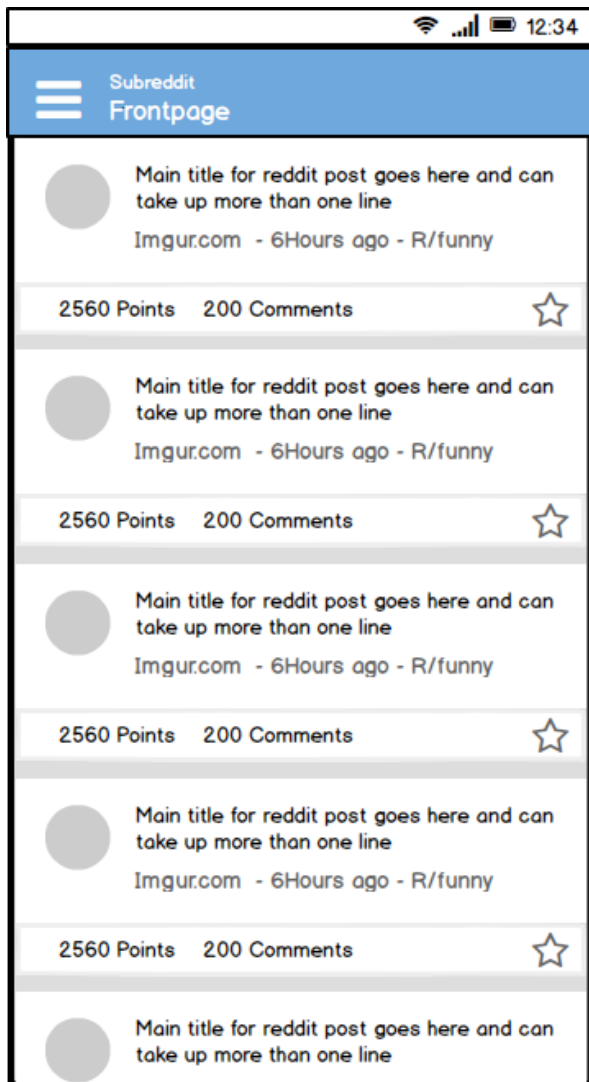
## **Features**

- Fetches content from Reddit.com API
- Displays content in listview
- Allows content to be viewed in more detail including comments
- Content links can be shared outside the app
- Content will open using intents
- Banners ads shown at bottom of detail view
- Google analytics for tracking

## **User Interface Mocks**

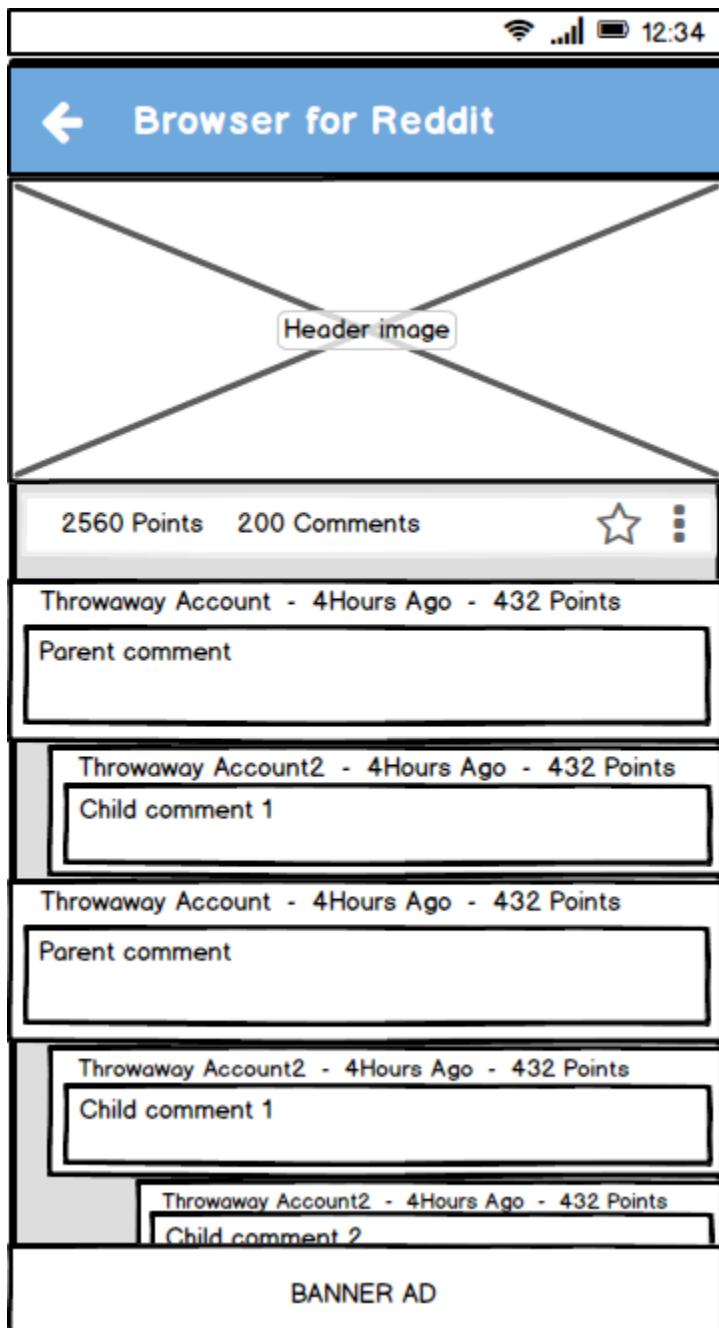
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

## **Main Activity Screen**



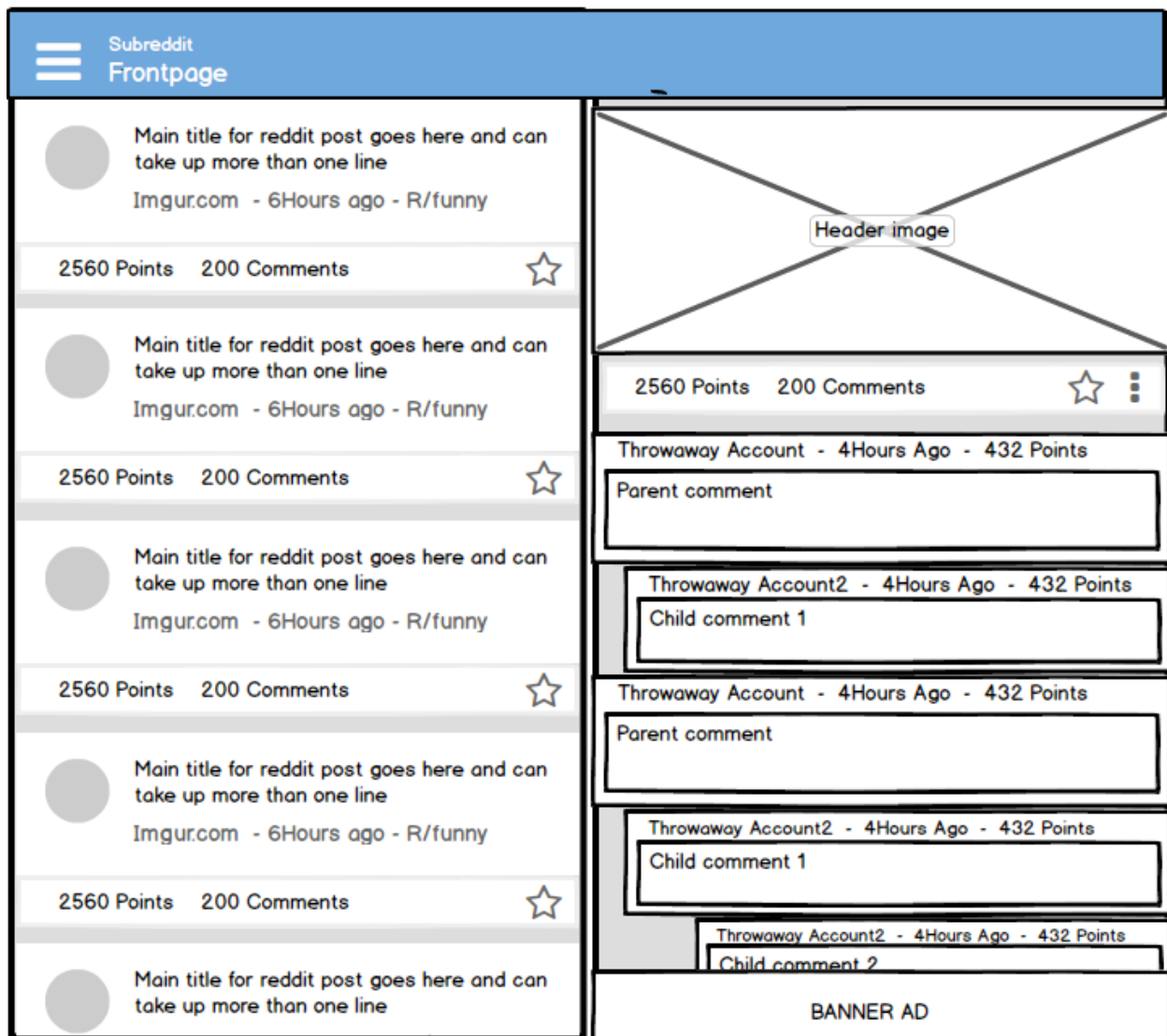
This is the main activity and it contains a list view that displays the content from the chosen subreddits. There is a navigation drawer which can be used to choose a subreddits or open the favorites that have been saved

## Detail View Activity Screen



This is the detail activity which opens when an article has been selected from the main list view activity. It displays a large header image of the content which can be clicked to open the related website. The comments can be viewed in a scroll view below.

## Tablet Master-Detail Activity Screen



This is a mock screen for when the app is used on a tablet. It shows a master detail flow with the list view and detail fragment both on display.

## Key Considerations

### How will your app handle data persistence?

A content provider will be created to manage the favorite's database. SharedPreferences will be used to store the user's custom list of subreddits.

### **Describe any corner cases in the UX.**

If there is no network the app will display a toast message warning the user. If a user enters an invalid subreddit they will be warned by a toast message.

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

Picasso will be used for image handling as it is a reliable library that I am familiar with from other projects

Retrofit library will be used to simplify Reddit.com API calls

## **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**

##### Picasso

Add **compile 'com.squareup.picasso:picasso:2.5.2'** to your dependencies block of the build.gradle for the app

##### Retrofit

Add **compile 'com.squareup.retrofit:retrofit:1.6.1'** to your dependencies block of the build.gradle for the app

##### Google Services

Add **classpath 'com.google.gms:google-services:3.0.0'** to the project level build.gradle.

Add **apply plugin: 'com.google.gms.google-services'** to the build.gradle for the app.

##### Google Firebase Ads

Add **compile 'com.google.firebase:firebase-ads:9.0.0'** to your dependencies block of the build.gradle for the app

##### Google Play Services

Add **compile 'com.google.android.gms:play-services-analytics:9.0.0'** to your dependencies block of the build.gradle for the app

### **Configure Permissions**

Update your project's AndroidManifest.xml file to include the INTERNET, READ, WRITE and ACCESS\_NETWORK\_STATE

## **Task 2: Implement UI for Each Activity and Fragment**

- Build UI for Main Activity
- Build UI for Detail activity
- Build UI for Detail Fragment
- Build UI for Subreddit management Activity
- Build UI for Master Detail Tablet View

## **Task 3: Implement Reddit API**

Implement Reddit.com API using retrofit. Documentation for the API can be found here: <https://www.reddit.com/dev/api> . Implement the API so that only SFW content is retrieved

## **Task 4: Implement UI navigation**

Setup button listeners with relevant intents to allow navigation from the main list view to the rest of the app.

## **Task 5: Implement Google Firebase Ads**

Log into Firebase console and retrieve google-services.json file. Give the app an add unit ID and then place the Ad mob view inside the detail Activity

## **Task 6: Implement Google Analytics**

Get the configuration file from <https://developers.google.com>

Add configuration file to the project and implement screen tracking to see when a user changes screen in an app.

## **Task 7: Implement Master-Detail View**

Create a master detail flow so that on tablets more information is displayed at one time when browsing the app

### **Task 8: Implement SharedPreferences**

In the subreddits management class implement a use of shared preferences to allow the user to choose a custom list of subreddits

### **Task 4: Implement ContentProvider**

Create a ContentProvider to use for saving favorites. Design contentURIs with appropriate structure and authority then implement the content Provider class

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