

Reddit Search & Share

Rocksauce Sample Application Outline

Application Overview:

Design a simple Android application that loads in Reddit posts for a set category and then enables the user to search by entering in any valid category name. Please, name your project “FirstNameLastName_AndroidCodeChallenge”.

Project Overview:

Watch this short demonstration video to get an idea of the desired result:

<http://tinyurl.com/RedditDemoRS>

Technical Requirements:

- The app must run on Android API version 16 and above.
- Focus on portrait support only.
- Posts must be loaded via JSON output from Reddit using the URL structure outlined later in this document.
- Use a native SearchView for allowing users to search subreddits. A new search should re-poll Reddit using the included URL structure.
- A table cell's height should be dynamic based on the length of the post.
- Upon app launch, load posts from the “funny” category by default, and show “funny” in the search bar by default. Use the search button art provided.
- Comment the code as needed.
- Your code must pass the standard Android lint tests.
- Please take advantage of any third party libraries that may assist you.
- Use `android.content.Intent.ACTION_SEND` intent to share posts when they are tapped--either to Email or SMS.

Reddit JSON

JSON data should be pulled from Reddit using this URL schema:

<http://www.reddit.com/r/funny/.json>

Use the “title”, “author”, “thumbnail”, “num_comments”, “ups”, and “downs” fields in the Reddit JSON. Note that it is possible for the thumbnail field to be empty.

As far as the search is concerned, allow the search to be used to find various categories on Reddit. For instance if the user searched “technology”, refresh the table with data from the following URL. (Show “funny” as the default search term).

<http://www.reddit.com/r/technology/.json>

Project Resources

- Screenshots of the main app screens are also included alongside this document.
- The custom font TTF has been included with the project files.
- Art resources are also provided.

Optional Feature Enhancements

- Write the app using Kotlin.
- Take advantage of image caching for profile pictures.
- Add a pull to refresh option.
- Make profile pictures show as a circle rather than square/rectangle and use the provided background art.
- Make the posts animate in as shown in the demonstration video (fade from 0 alpha to 1 and slide in from right simultaneously).
- Make use of the included custom font for the “@Username”.
- Add a shadow to profile pictures.
- Make use of Android Architecture Components where applicable.
- Obfuscate your release code.

Please return a runnable Android Studio project within 3 days. Do not spend more than 6 - 12 hours on this project. Along with the project, please answer the following questions:

- Was 3 days/12 hours enough time? Why or why not?
- How many hours would you estimate you spent total on the project?
- Did you encounter any struggles while completing this? How did you overcome them?
- On a scale of 1 – 10, rate the complexity of this project (1 being super easy and 10 being the hardest thing you have ever done).
- If this project was for a client and you had more time to refactor, what improvements would you like to make to the architecture and/or the product?

