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Reddit

Description

Reddit is a social news aggregation, content rating, and discussion app. Reddit's registered community members can submit content, such as text posts or direct links. Registered users can then vote submissions up or down to organize the posts and determine their position on the site's pages. The submissions with the most positive votes appear on the front page or the top of a category. Content entries are organized by areas of interest called "subreddits". The subreddit topics include news, science, gaming, movies, music, books, fitness, food, and image-sharing, among many others. The site's terms of use prohibit behaviors such as harassment, and moderating and limiting harassment has taken substantial resources.

Intended User

Intended user of this application are those reddit user who have trouble in following large number of their favorites subreddits. The user subscribes to a large number of subreddits, find it difficult 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 quickly.

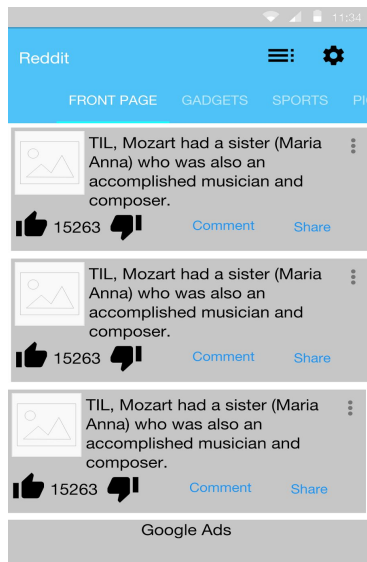
Features

List the main features:

- Allow user to select set of subreddits.
- Show the list of posts from the selected subreddits
- Allow user to upvote/devote any post
- Read and do comment on any post
- Share on social media.

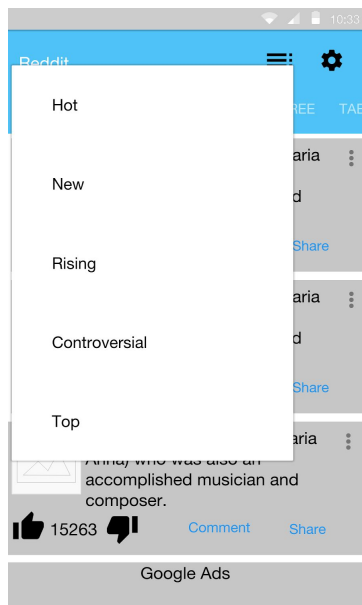
User Interface Mocks

Screen 1



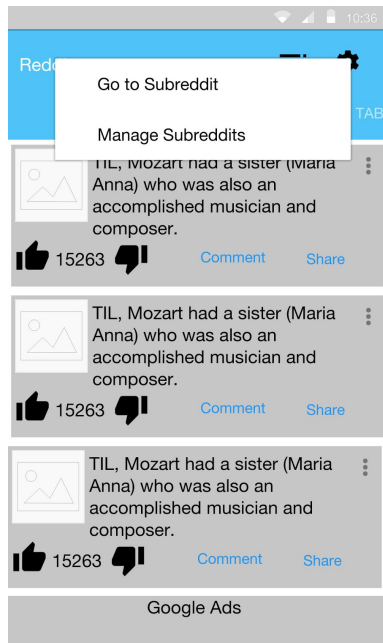
Home Screen. It will contain the list of subreddits as tab. User can use left/right swipe for select different subreddit.

Screen 2



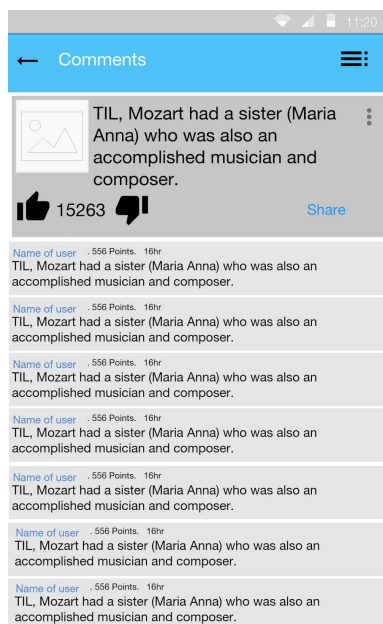
User can sort the posts using this option menu popup.

Screen 3



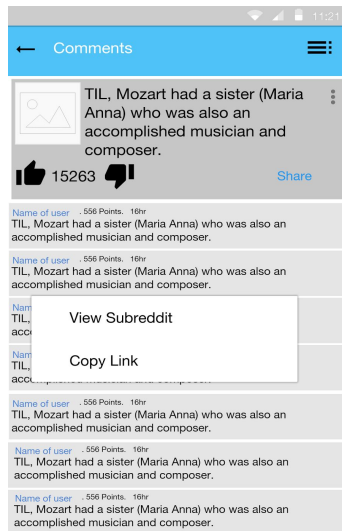
User can use this setting menu to go to any specific Subreddit or change his preference for selected subreddits

Screen 4



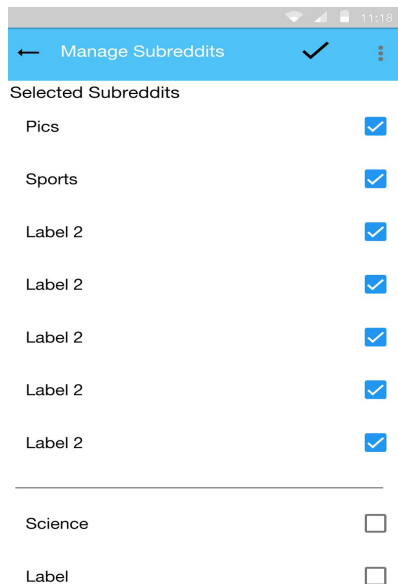
User can see the complete list of comment on this screen

Screen 5



When user will tap on more icon (just right to post title) this dialog will be open. User can view all the post of this subreddit. Copy link option is also available here. Using share button s/he can share this post on any sharing platform.

Screen 6



User can manage subreddits from this preference screen. He can choose one of more subreddit and that will be available on home screen as a tab.

Key Considerations

How will your app handle data persistence?

This application pull the data every time from Reddit server, however user preference for subreddits are saved in sharedpreferences.

Describe any corner cases in the UX.

User can select any subreddits available as a tab on home screen using swipe left/right. User can set preference for set of subreddits From setting menu available on home screen. He/She can sort the list of post (Hot, New, Rising, Controversial and Top) using menu item available on toolbar.

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

Glide for loading and caching the images

com.github.bumptech.glide:glide:3.7.0

Event bus library for notify the app for an event

de.greenrobot:eventbus:2.4.0

Describe how you will implement Google Play Services.

Google play service(Ads) for to serve ads

com.google.firebase:firebase-ads

A single banner will be shown on home screen's bottom.

Google play service(Analytics) for collect the event from app

com.google.firebase:firebase-core

Required Tasks

Task 1: Project Setup

1. Create Application
2. Add required permission and feature manifest
3. Configure dependency

Task 2: Implement UI for Each Activity and Fragment

- Layout for all UI
 - a) Home Fragment UI which will show list of post of any subreddit
 - b) UI for comments screen
 - c) UI for manage subreddit fragment

Task 3: Create Activity and fragment

1. Home Activity
 - Home Activity
 - Home Fragment
2. Comments Activity
 - Comments Fragment
2. Manage Subreddits Activity

Task 4: Make Data Manager

1. Make classes for Reddit data management
 - Create class for manage connection with reddit server
 - Create class for pulling the data from server
2. Make Utils to do request on API server using **AsyncHttpClient**
 - As this app will show post from any specific subreddit at a time so it will performs short duration, on-demand requests, I will use **AsyncHttpClient** to perform the api request. Its same like make request using **AsyncTask**
3. Write Content Provider
 - Make a content provider having uri and authority which will give access of locally stored data

Task 5: Implement ads

- Create project on google console / firebase console to implement google service
- Create ads banner on console and generate ads id.
- Integrate that ads in application.

Task 6: Implement Firebase Analytics

- Create set of events that will be sent on firebase analytics
- Record and send that event from app to firebase analytics dashboard

Task 7: Widget

- Create widget for this application

Task 8: Generate production ready build

- Write proguard-rules
- Make a keystore and generate release build