

Capstone Project

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MyReddit

Description

MyReddit displays posts from the latest subreddits.
It also lets users add Subreddits to a Favorite list.
User can also see comments for a particular post.
User can also dismiss current post and see other posts in a subreddit.

This solves the problem of user keeping current on content from the subreddits they've saved as their favorite.

Intended User

Intended user is anyone who likes to read content on Reddit.

Features

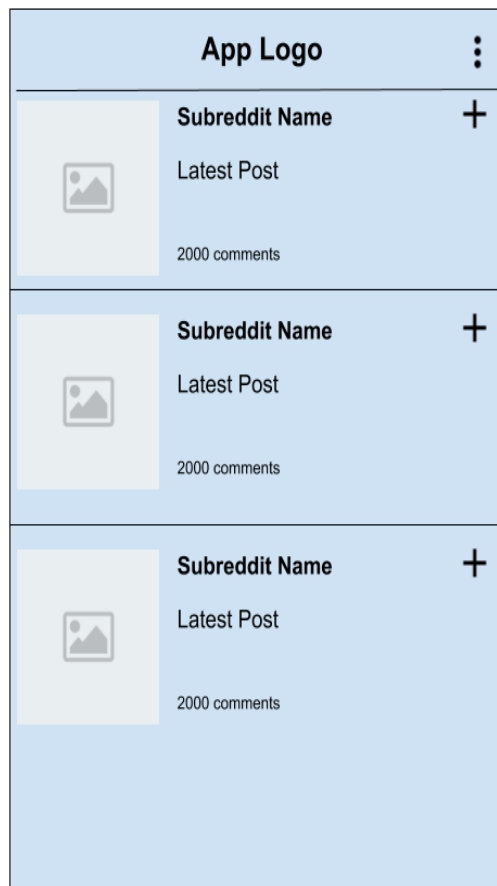
- User can see latest subreddits and posts.
- User can add/remove subreddits as a Favorite.
- User can view comments in a subreddit post.
- User can view all posts in a subreddit.

Project Requirements

- App is written solely in Java Programming Language.
- App keeps all strings in a strings.xml file and enables RTL layout switching on all layouts.
- App includes support for accessibility. That includes content descriptions, navigation using a D-pad, and, if applicable, non-audio versions of audio cues.

User Interface Mocks

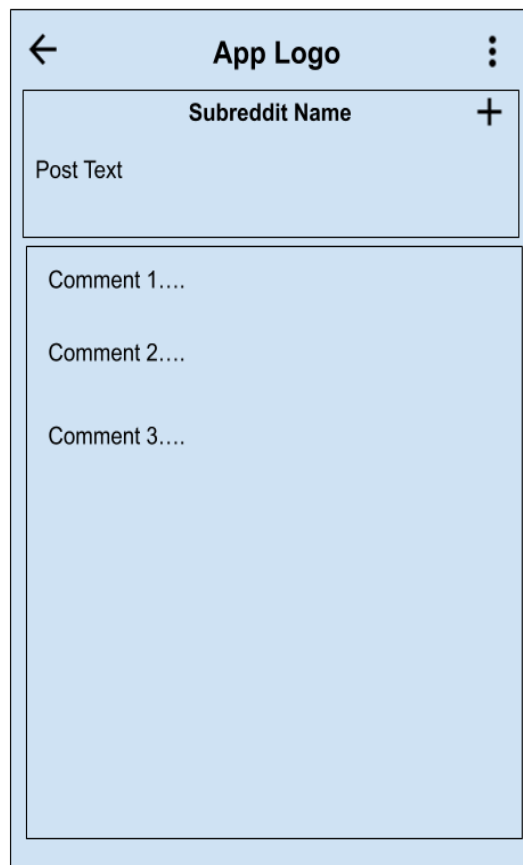
Screen 1: Home Screen



Description:

- This is the Home Screen. It displays the Latest Subreddit Posts along with how many comments the post has.
- User can add this Subreddit as a Favorite by clicking on the + sign.
- The Overflow menu provides a link to the Favorites Subreddits.

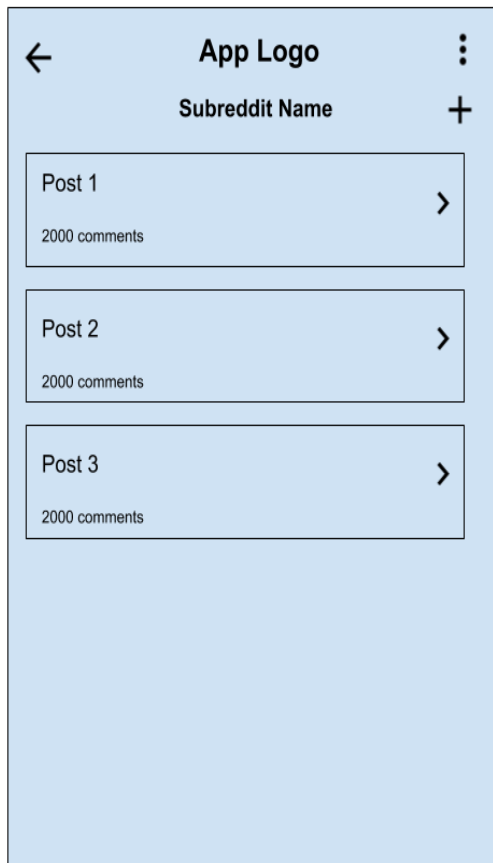
Screen 2: Comments Screen



Description:

- User gets to the above screen by clicking on '# comments' of a post.
- It displays the Subreddit Name along with the Post whose link was clicked.
- Related comments are displayed at the bottom.
- User can add/remove the Subreddit as a Favorite by clicking the +/- sign.

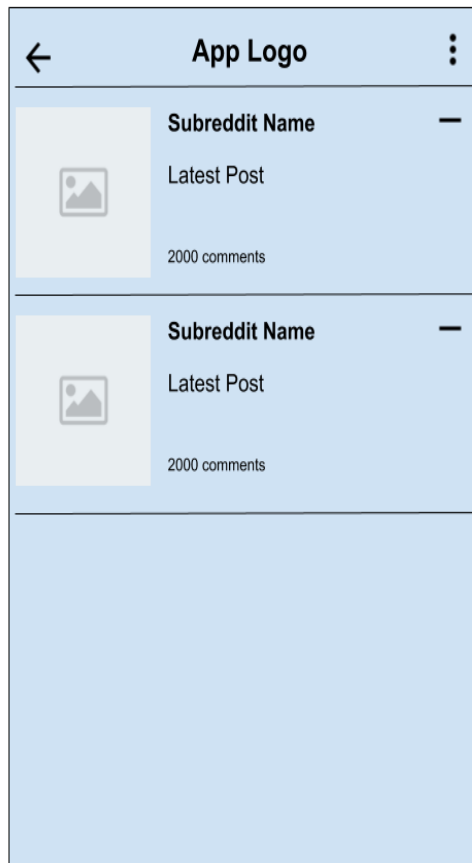
Screen 3: Subreddit Screen



Description:

- User gets to this screen if he/she clicks the Subreddit name.
- It displays the latest posts in that subreddit.
- User can add (or remove) this subreddit as a favorite by clicking on +/- sign.

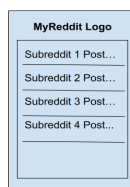
Screen 4: Favorites Screen



Description:

- User can get to this screen by clicking on Favorites link from the Overflow menu.
- User can remove any subreddit from the Favorites list by clicking on – sign.

Screen 5: Widget



Description:

- The Widget shows a list of latest posts from user's favorite subreddits.

Key Considerations

How will your app handle data persistence?

User's favorite subreddits will be stored using the Room, LiveData, and ViewModel.
No unnecessary calls to the database will be made.

Describe any edge or corner cases in the UX.

- User should return to the correct screen (one they started from) whenever back button is clicked on any screen.
- If there is no internet connection, an appropriate message will be displayed to the user.

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

- Picasso to handle the loading and caching of images. **Following versions will be used:**
 - implementation 'com.squareup.picasso:picasso:2.71828'
- Room, LiveData, and ViewModel for Data Persistence. **Following versions will be used:**
 - implementation "androidx.room:room-runtime:2.2.0"
 - annotationProcessor "androidx.room:room-compiler:2.2.0"
 - implementation "androidx.lifecycle:lifecycle-extensions:2.1.0"
 - implementation "androidx.lifecycle:lifecycle-common-java8:2.1.0"

Describe how you will implement Google Play Services or other external services.

Location: to customize user's experience. Subreddits close to user's device location will be accessed so content is more relatable to the user.

Analytics: to gather data about app usage.

Next Steps: Required Tasks

Task 1: Project Setup

- Create a new Project using Android Studio.
- Add required library dependencies.
- Obtain API Key to access Reddit APIs.
- Ensure Api Key is stored securely using Gradle.

Task 2: Determine APIs

- **Determine which API is needed for:** Home Screen.
- **Determine which API is needed for:** Comments Screen.
- **Determine which API is needed for:** Subreddit Screen.

Task 3: Design Layouts

- Design layout for Home Screen.
- Design layout for Comments Screen.
- Design layout for Subreddit Screen.
- Design layout for Favorites Screen.

Task 4: Create HomeScreen Activity

- Display subreddit post text on Home Screen.
- Display images related to the subreddit posts on Home Screen.
- Display comments count related to the subreddit posts on Home Screen.
- Add click functionality for # comments on Home Screen.
- Add click functionality for subreddit name on Home Screen.

Task 5: Create CommentsScreen Activity

- Display Subreddit name and text on Comments screen.
- Display Comments on Comments Screen.

Task 6: Create SubredditScreen Activity

- Display latest posts from Subreddit.
- Display #comments for above posts.
- Add click functionality for '>' chevron to take user to Comments Screen.

Task 7: Create Favorites Functionality

- Create FavoritesScreen. [Copy HomeScreen].
- Display Favorite list when Favorites is selected from Overflow menu.
- Add Overflow Menu with Favorite Menu to all screens.
- Add click functionality for subreddit to be added as a Favorite when + sign is clicked [and removed when - is clicked].

Task 8: General

- Add appropriate Parent Activity for all activities.
- Run App in Tablet and make any changes to layouts, as required.
- App Logo to all screens.
- Add Unit and/or Instrumentation Test (s) to make future maintenance easier.

Submission Instructions

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