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Random post from Reddit

Description

I am following the default recommendation from Udacity for final Capstone project. My app would let the user indicate a set of subreddits that they would like to follow and store. The app would then choose a post from one of the subreddits and present to the user. User would be able to interact with the post or dismiss it to receive another. Lastly, the app will be developed using only Java.

Intended User

The app is for anyone who cares enough about post from reddit for fun or genuine interest.
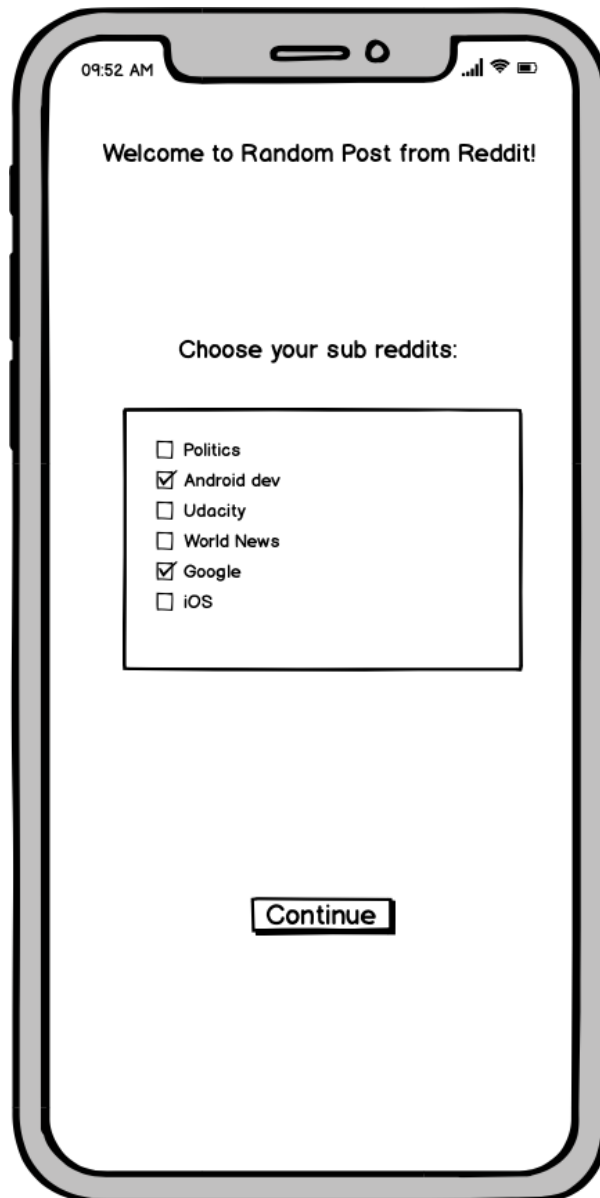
Features

- Saves user's list of subreddits
- Present images, vidoes, etc.
- Request json response from Reddit api
- Swipe left or right to view new post
- Share post with via email/facebook/ etc ..

Libraries & Version

- Android Studio: 4.0
- Gradle: 4.0.0
- Retrofit, a http client library, to load json result from Reddit API
- Picasso/Glide to load images
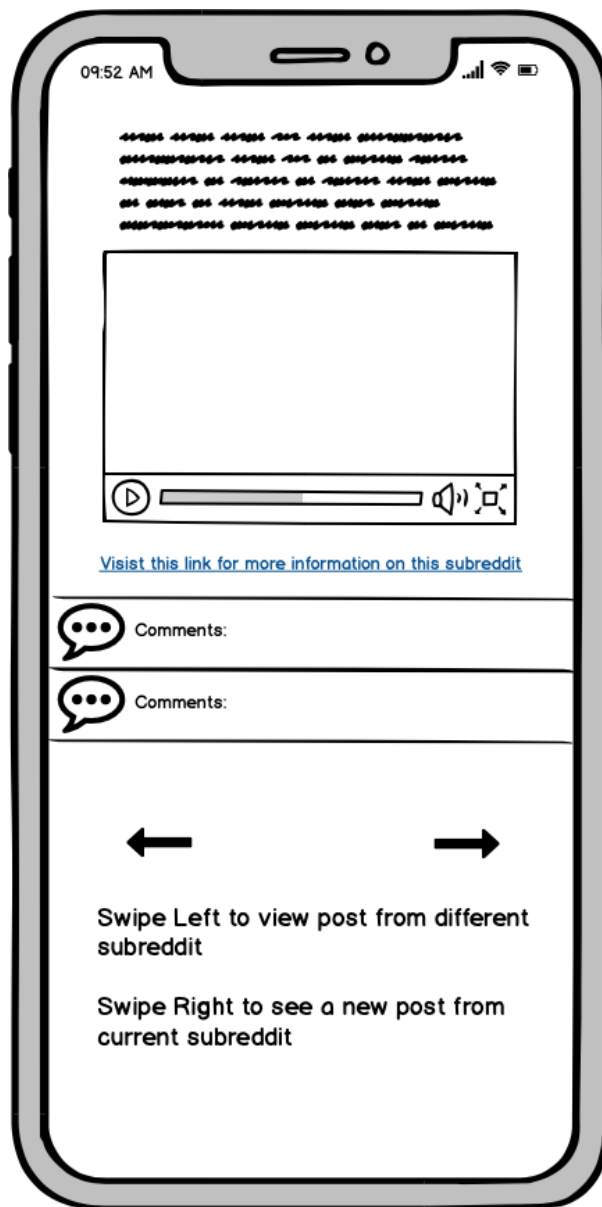- Data binding library to simplify code

User Interface Mocks
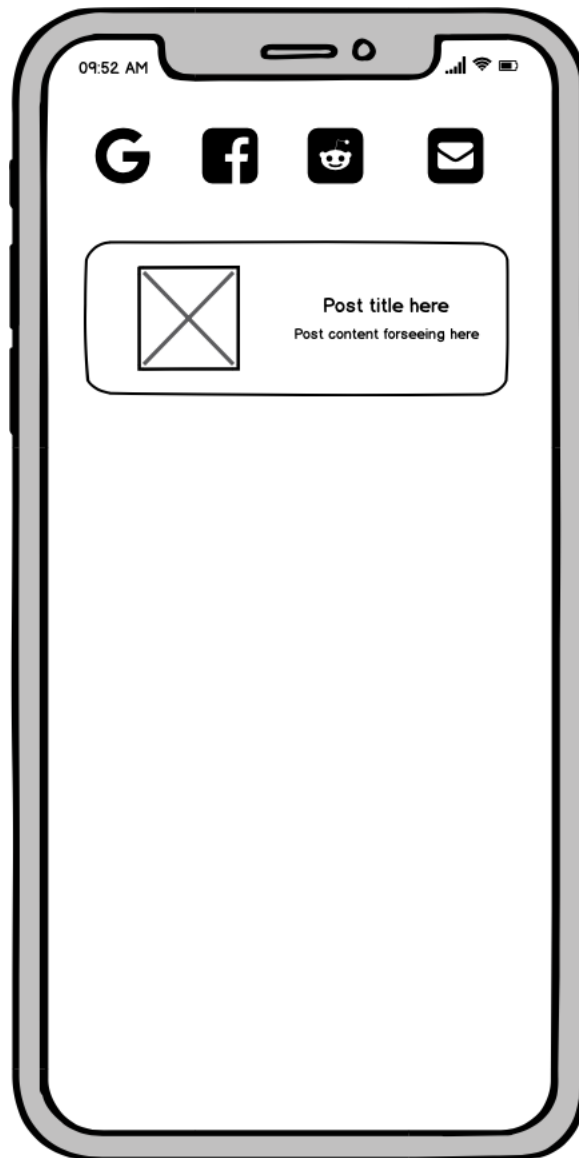
Screen 1: Choose some subreddits

Upon opening the app, user would select series of subreddits they that would like to follow and store. Then the app would store the list to app's local database so that it would query a random post from one of the subreddits each time user refreshes the app.

Screen 2: Interact with a post from one of the subreddits

09:52 AM

Visist this link for more information on this subreddit

💬 Comments:

💬 Comments:

←   →

Swipe Left to view post from different subreddit

Swipe Right to see a new post from current subreddit

User would then be able to interact with one of the posts from the chosen subreddit. User can view images/videos, view comments, visit associated links. Upon swiping left or right, user would be able to view new post from either current or different subreddit.

Screen 3: Widget that show post title and navigate to app screen on press

Widget for this app would contain a post's thumbnail, title, and some content to let user glance everything in brief. If user is interested in viewing the whole content, user can tap on this widget to move directly to app's screen that normally displays a post from one of the subreddits that user has previously selected.

Key Considerations

How will your app handle data persistence?

The only thing that needs to be stored is user's list of subreddits. I think I can store these in shared preferences. If not, I will use Room. Please give me recommendation on what to use. (I have to store user's choice of subreddits so that the app remembers them and makes according api call to reddit api)

Describe any edge or corner cases in the UX.

User should be able to navigate to some website if the post contain any links and be able to comment on the post via the app.

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

I am not sure what I should be using for Google Services. Please give me recommendations on this one ☹ I think maybe Google Mobile Ads for displaying ads and firebase for storing user data? For my use case, using Goggle Services is not really necessary. What do you think?

Describe how you will support accessibility.

The app will include content descriptions and navigation using a D-pad.

How will the App store resource such as strings, dimensions, colors, **etc?**

In strings.xml, dimens.xml, and colors.xml. I will also take advantage of theme or style where applicable.

Will the App support the RTL?

The app will enable RTL layout switching on all layouts.

Next Steps: Required Tasks

Task 1: Project Setup

- Configure libraries

Task 2: Implement UI for Each Activity and Fragment

- Build UI for choosing from subreddits
- Build UI for viewing post from one of the subreddits

Task 3: Setup database for user's choice of subreddits

- Set up Room database to store user's choice of subreddits

Task 4: Implement JSON request to Reddit api using retrofit

- Sign up for Reddit api to user reddit api services
- Make api call to get post from one of the subreddits

Task 5: Create build variant for free/paid version

- Implement Goggle Play Services for Mobile Ads in free version
- Create build variant for paid version without interrupting ads

Task 6: Handle Error Cases and wrap up

- Handle corner cases for api call, video playback, viewing webpages, etc.
- Make some unit Tests for different activities.