Description

Intended User

Features

User Interface Mocks

    Screen 1: Login Screen

    Screen 2: Main Screen

    Screen 3: Setting Screen

    Screen 4: Widget Screen

Key Considerations

    How will your app handle data persistence?

    Describe any edge or corner cases in the UX.

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

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

    Accessibility.

Next Steps: Required Tasks

    Task 1: Project Setup

    Task 2: Implement UI for Each Activity and Fragment

    Task 3: Implement Logic and Database

    Task 4: Release and Sign the app

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Reddit App

Description

The app presents the user with a post from one of their selected subreddits and allows the user to interact with the post. The app is written in Java Programming Language.

Intended User

Reddit subscribers.

Features

- Show latest subreddits
- Show user the content of subreddits
- Allow user to interact or dismiss the subreddits
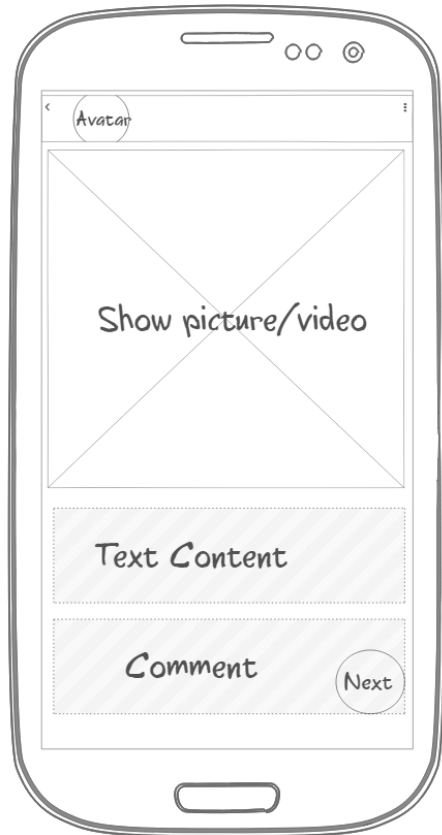- Show the subreddits with a keyword of the city where the user is located
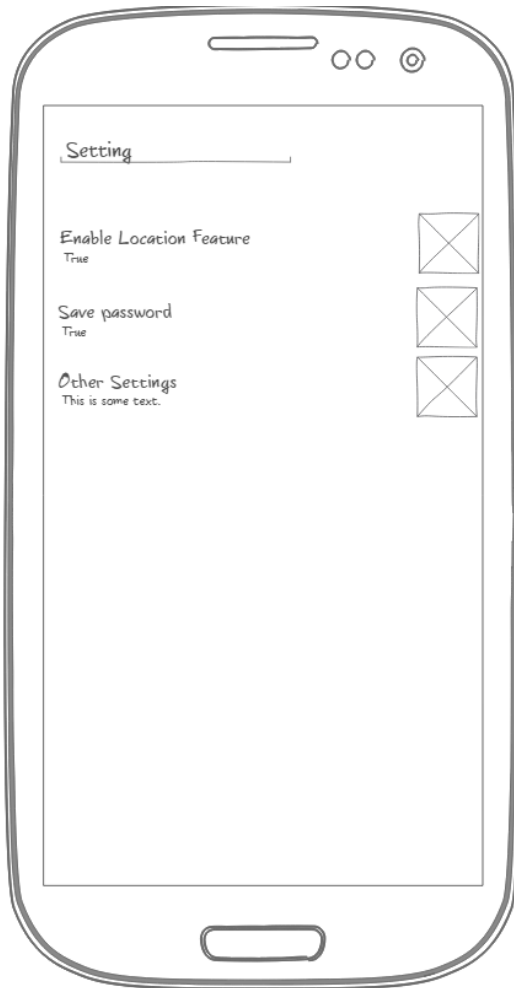
User Interface Mocks

Screen 1: Login Screen

Login screen allows user to log into their Reddit, so that the app can pull the subreddits on their account.

Screen 2: Main Screen

Main Screen shows the subreddit, including the picture, video, and the text content. The screen also shows the comments of the subreddit. There is a button "Next" which the user can click and get the next subreddit.

Screen 3: Setting Screen

Setting screen allows the user to enable the location feature, save password, and etc.

Screen 4: Widget Screen

Widget screen shows the latest subreddits. If user clicks on the subreddit, the app will be

opened.

Key Considerations

How will your app handle data persistence?

Build Content Provider and SQLite to store data. Implement Android Architecture Components to handle data as well.
Validate all the input from servers and users to ensure the data is in the right format. If not, the app logs the fact but does not crash.

Describe any edge or corner cases in the UX.

User hits back button to return to main page. User clicks "Next" button to get the next subreddit.

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

Andoird: targetSdk 28, minSdk 21
Gradle: 3.4.1
Google Service: 4.2.0, to use google location
Google Play Service-Location: 16.0.0, to determine the user's location
ConstraintLayout: 1.1.3, to show the activity layout
Glide: 4.11.0, to handle the loading and caching of images.
OkHttp: 4.3.1, to handle network connection.

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

Google Location: get user's location and query the subreddit which has the keyword of the city where the user is located.
Firebase: manage notifications.

Accessibility.

RTL layout enabled.

Next Steps: Required Tasks

Task 1: Project Setup

- Configure libraries
- Set up gradle file
- Set up permission
- Set up Manifest file

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:
- Build UI for MainActivity
- Build UI for LoginActivity
- Build UI for SettingActivity

Task 3: Implement Logic and Database

- Create layout
- Create Login Logic
- Implement Google Location
- Handle Error Cases
- Create Adapter
- Create API helper
- Create Content Provider, SQLite, and Android Architecture Components
- Create Utils Classes

Task 4: Release and Sign the app

- Build and deploy the app
- Sign the app