

Description

Intended User

Features

User Interface Mocks

Screen 1

Screen 2

Key Considerations

How will your app handle data persistence?

Describe any 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.

Next Steps: Required Tasks

Task 1: Project Setup

Task 2: Implement UI for Each Activity and Fragment

Task 3: Your Next Task

Task 4: Your Next Task

Task 5: Your Next Task

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Reddit Reader

Description

Browse reddit with an easy-to-use interface. Keep up with all subscribed subreddits and get news/posts/threads from all of them equally.

Intended User

This app is intended for reddit users, especially those subscribes to a large number of subreddits and have problems keeping up with them.

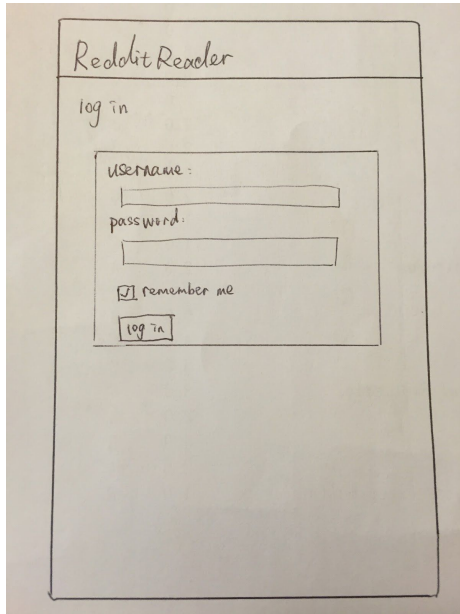
Features

- Connects to Reddit account

- Saves users information and subscriptions
- Allows user to indicate a set of subreddits
- Presents posts from selected subreddits
- Allows users to browse, interacts with the posts
- Provides a widget to display relevant information to the user on the home screen

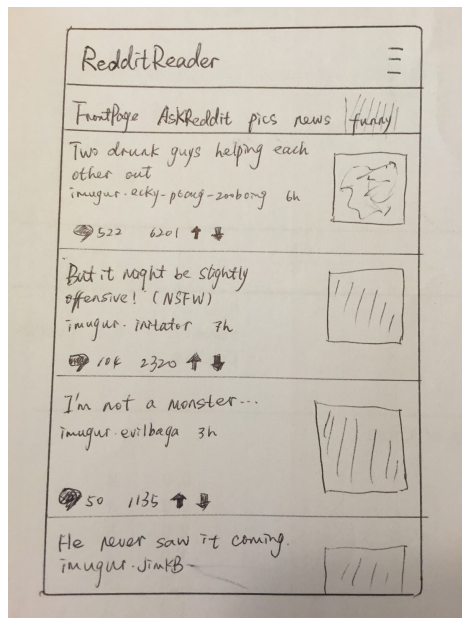
User Interface Mocks

Screen 1 - Login UI



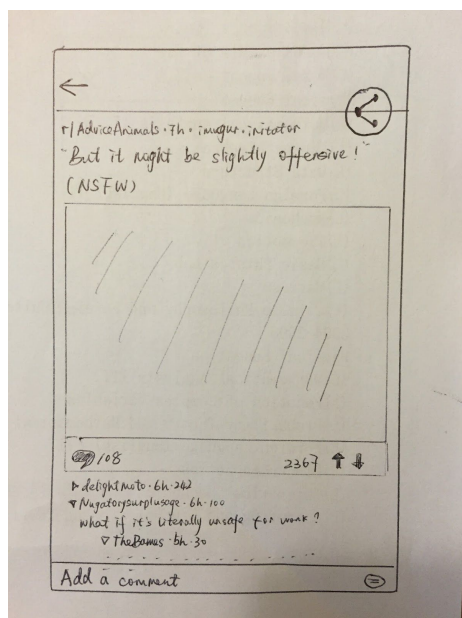
Account login UI where user can enter their Reddit account username and password to log in. If account name or password are not correct or does not match, an error message will be popup.

Screen 2 - Post Listview



Listview of selected subreddit. By swiping tabs, user will navigate posts from subreddits.

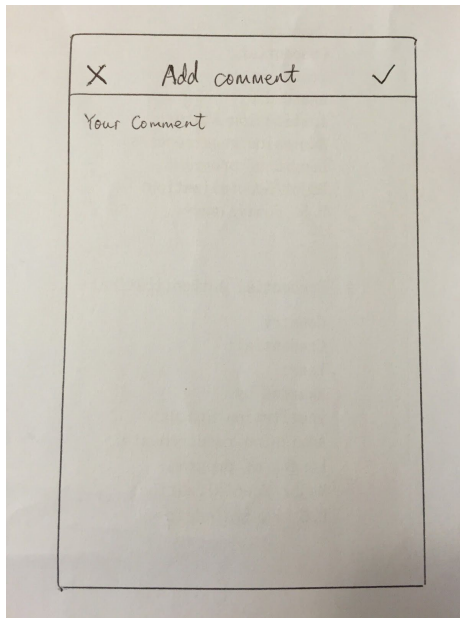
Screen 3 - Post UI



Reddit post UI presents selected post in detail. It allows user to click thumbs-up and thumbs-down button and update in the UI. It also allows user to add a comment and start the comment activity.

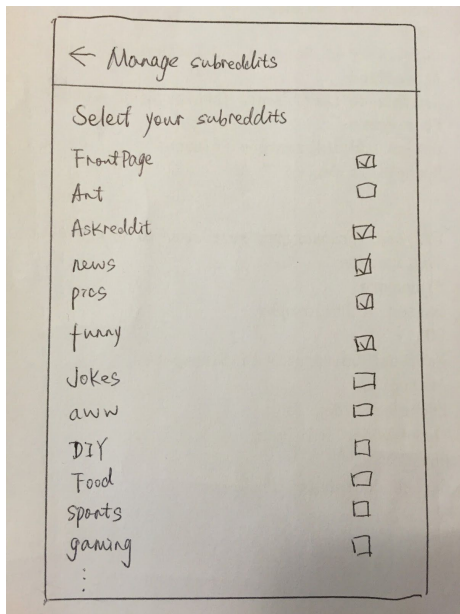
User can also share the post link with the share floating action button.

Screen 4 - Comment UI



The comment UI where user edit and post their comments.

Screen 5 - Setting UI



Setting UI displays all subreddits and allows user edit their subscription.

Key Considerations

How will your app handle data persistence?

User account information and subreddits will be stored in SharedPreferences.
Posts will be stored in SQLite database and wrapped by content provider.

Describe any corner cases in the UX.

In posts, when thumbs-up/thumbs-down button is clicked, data will be sent to server and then synced in database to display on UI. Compared to updating data on UI immediately after button is clicked, this approach ensures no like/dislike action will be taken when there is no internet connection.

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

Use JRAW as API wrappers to connect Reddit.
Use Picasso to handle the fetching and loading of images.
Use Google Play Services Admob to display test ads.
Use Google Play Services Analytics to analyse user behavior.
Use Android support library to design UI.

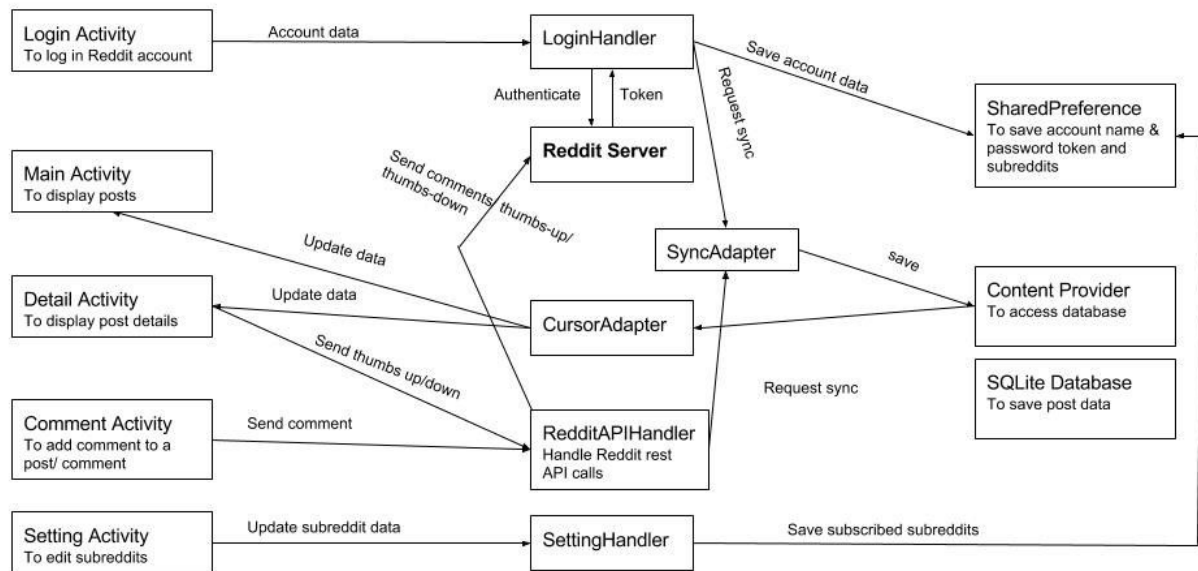
Describe how you will implement Google Play Services.

Admob: By adding in-app ads to generate revenue.
Analytics: By getting users' behavior data in using the app (time spent in certain pages, usage frequency of certain features/buttons etc.) to analyse user preference and make improvement.

Next Steps: Required Tasks

Task 1: Project Setup

- Create base Android project in Android Studio
- Setup gradle dependencies, libraries



Task 2: Implement UI for Each Activity and Fragment

- Login activity for users to input account name and password
- Main activity includes a toolbar, appbar, tabview(to display subscribed subreddits), start fragment (display a listview of posts)
- Detail activity displays post title, body, pic, author, thumbs-up/down number and thumbs-up/down button, comment and add comment button
- Comment activity to reply to a post
- Setting activity to edit subscription

Task 3: Define interface for handlers and uri for content provider

- Define interface in all handlers which will be used by UI
- Define uri scheme for content provider

Task 4: Build SQLite Database

- Create database to store subreddits and posts information
- Implement content provider to access stored data
- Use SyncAdapter for regularly pull and send data

Task 5: Implement methods in handlers

- Implement handler methods

Task 7: Others

- Add widget
- Accessibility

Task 8: Configure app building

- Add flavors to application
- App signing