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Reddit Reader

Description

Users can now view a random post from all the sub reddits they follow at one place. User can swipe the post away to dismiss it and get the next post or tap it to interact with it.

Intended User

The user subscribes to a large number of subreddits, finds it hard 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 equally.
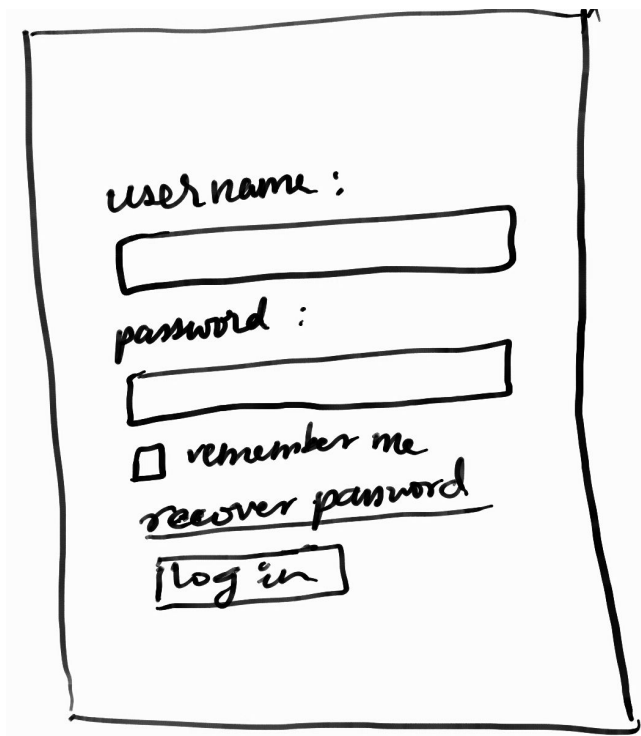
Features

List the main features of your app. For example:
- View posts from Reddit
- Saves user login details and app preferences
- Interact with posts by liking or commenting on them
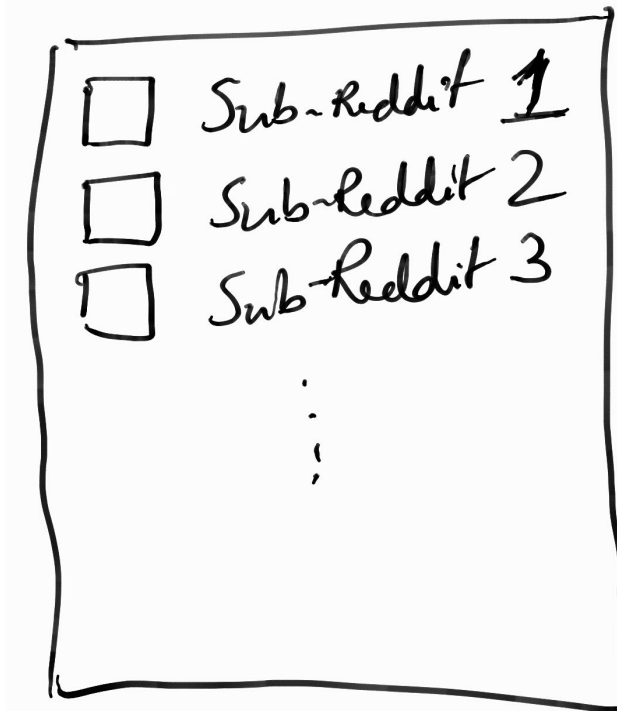- Quick view posts on a widget

User Interface Mocks

Screen 1: Login

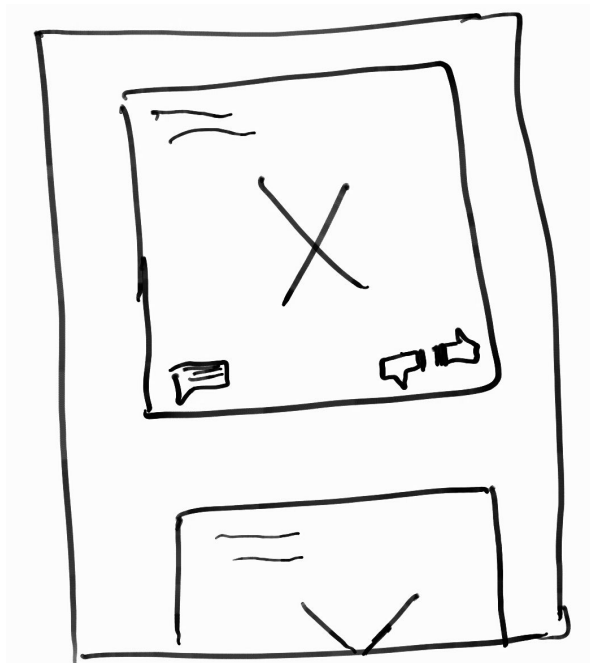Main login page, which may come up later if session expires or we fail to login user.

Screen 2: Subreddit selector

Display list of subreddits for user to select. Posts from selected subreddits are shown. This screen can be launched from settings.

Screen 3: Main Activity Fragment

Display list of posts from subreddits selected by user along with number of comments, upvotes and downvotes.

Screen 4: Detail Fragment
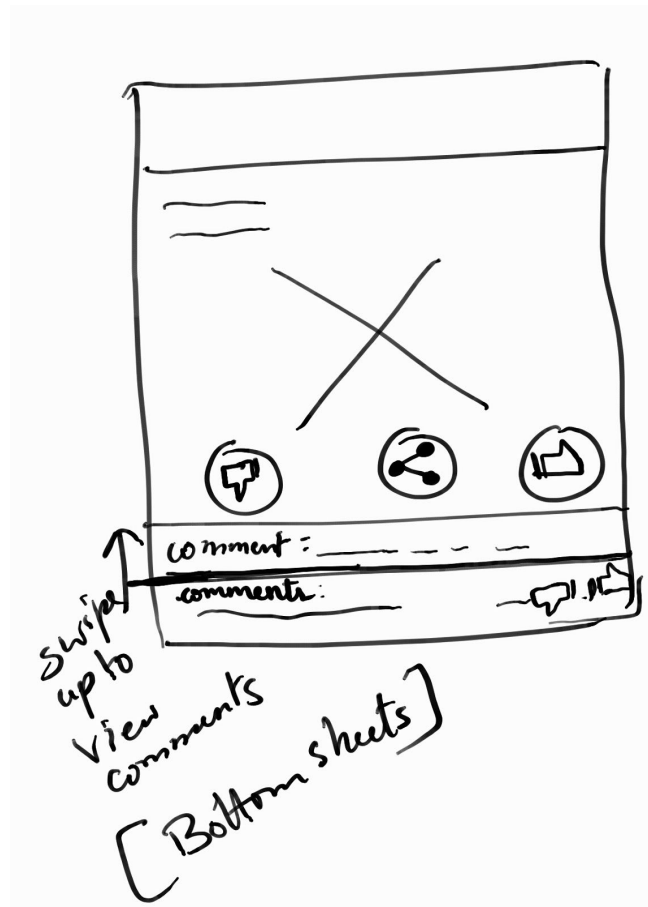
Detail activity: Launched when User clicks on any post to display top comments at the bottom, option to upvote or downvote the post and add a comment. The comments on the current post will be implemented on a Bottom sheet that can be dragged up to view all the comments. The user will also find an option to share the post, implemented using FABs.

FABs:
1. Downvote
2. Share
3. Upvote

Screen 5: Widget
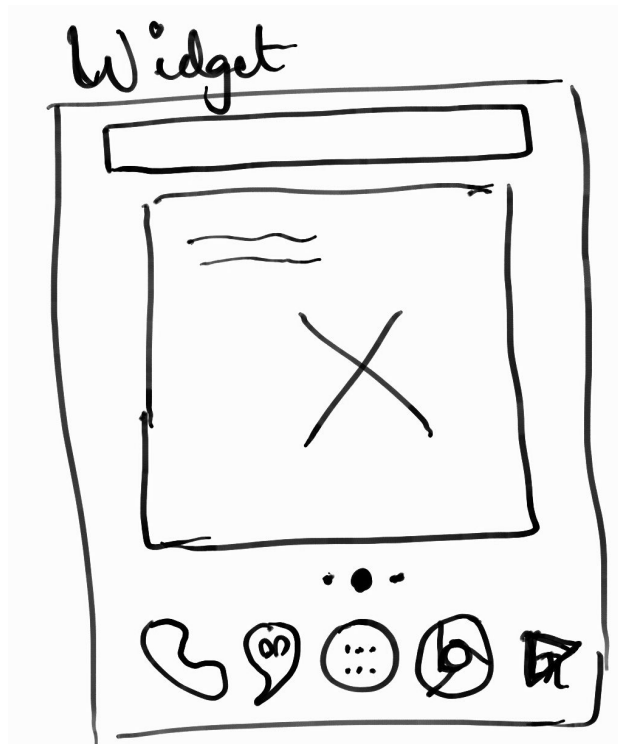
A widget, which displays a random post for some time and displays the next post. On clicking the widget the app is launched.

Screen 6: Tablet View

Tablet view, shows both main activity fragment and detail fragment

Key Considerations

How will your app handle data persistence?

User info will be stored in sharedpreferences. Selected subreddits and posts will be stored in a content provider.

Describe any corner cases in the UX.

1. Before user logins to the application widget should provide appropriate information.
2. In tablet view, if user does not select any post to view (initially upon launching application) the default view should be shown.
3. If no subreddits are selected to follow, no posts can be shown and this has to be handled gracefully.

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

1. Picasso for handling images
2. Various Android Design libraries
3. Google Play Services to serve ads
4. Google Analytics to collect usage metrics

Next Steps: Required Tasks

Task 1: Project Setup

1. Create a new Android Project targeting phones and tablets.
2. Add required libraries.
3. Setup Release build, creating a signing config.

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity Fragment
- Build UI for Details Fragment and Comments Fragment
- Build UI for Login Activity
- Build UI for selecting Subreddits
- Handle change in Layout for Tablets

Task 3: Reddit wrapper

- Implement wrappers to handle reddit login and fetch subreddits and feed.

Task 4: Sync Adapter and Content Provider

- Implement Content Provider to store list of posts
- Implement Sync Adapter to populate the content provider

Task 5: Main Activity Fragment and Details Fragment

- Hook up UI of Main Activity and Details Fragment with Content Provider using Loaders to display posts and details.

Task 6: Widget

- Create Widget and link it with app.
- Modify Main Activity to display the same post that was on display on the widget when the widget was clicked.