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Sift for Reddit

Description

Sift is a Reddit client that emphasizes on material design and a content rich interface to create a comfortable browsing experience for the user. Navigation between subreddits and posts should be quick and intuitive. All usual functionality of Reddit will be made possible with this client including viewing posts, browsing subreddits, messaging users, and commenting on posts.

Intended User

Sift is intended for all users of Reddit, especially new users who are confused or intimidated by Reddit's layout.

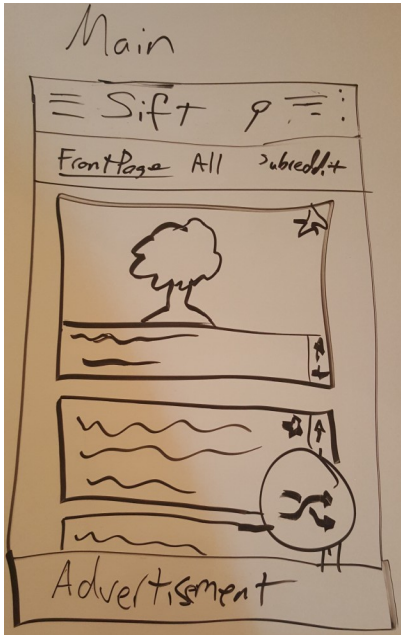
Features

- **Browse Reddit**
- **View posts**
- **Comment on posts**
- **View subreddits**
- **View user**
- **Send messages**
- **Vote on posts and comments**
- **Save posts**

User Interface Mocks

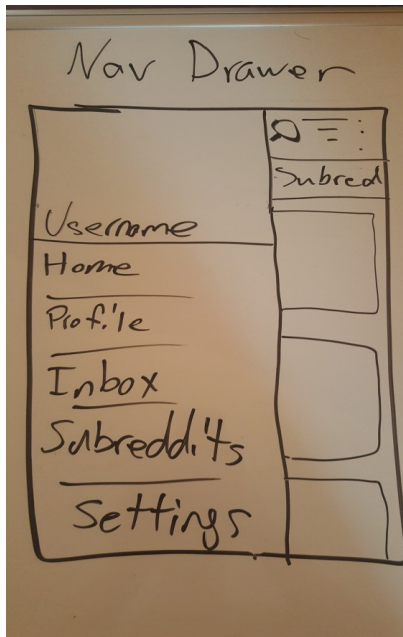
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

MainActivity



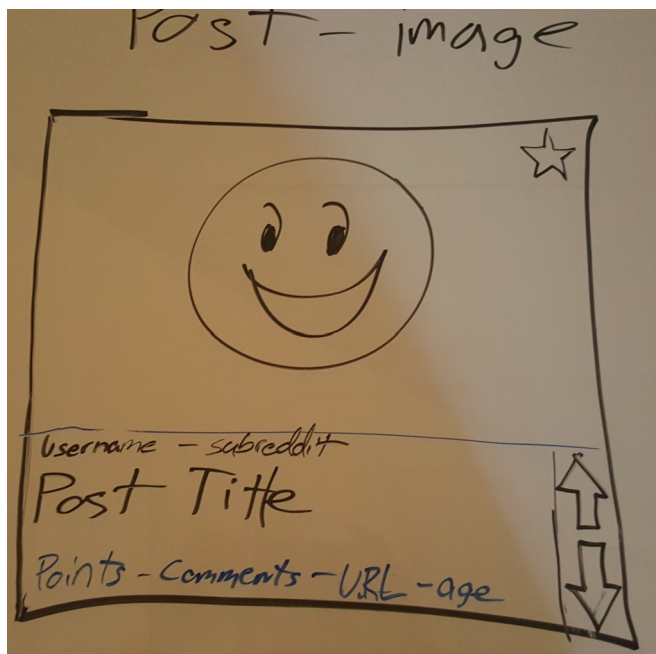
This will be the main activity of the application. From here the user can scroll through the frontpage posts or side swipe to view the posts of a particular subreddit. The user can open a navigation drawer to get to other activities such as their friends list or to view their profile. A search icon in the toolbar allows the user to search for subreddits. The icon beside the search icon will allow the user to change the sort order of the posts. There will be a fab that will take the user to a random post.

Navigation Drawer



Sliding from the left will open the navigation drawer. The user will use this to navigate between the major proponents of the application such as viewing their inbox, friends list, and submitting posts.

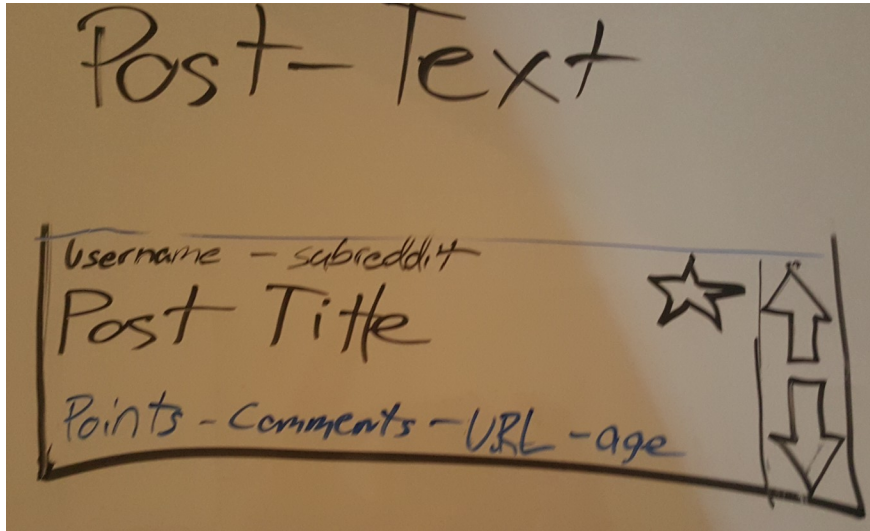
Post Image



This will be the layout for each post in the MainActivity. The image will be large and the Title and other information will be on the bottom of the image. In the upper right corner is a star that can be clicked to save

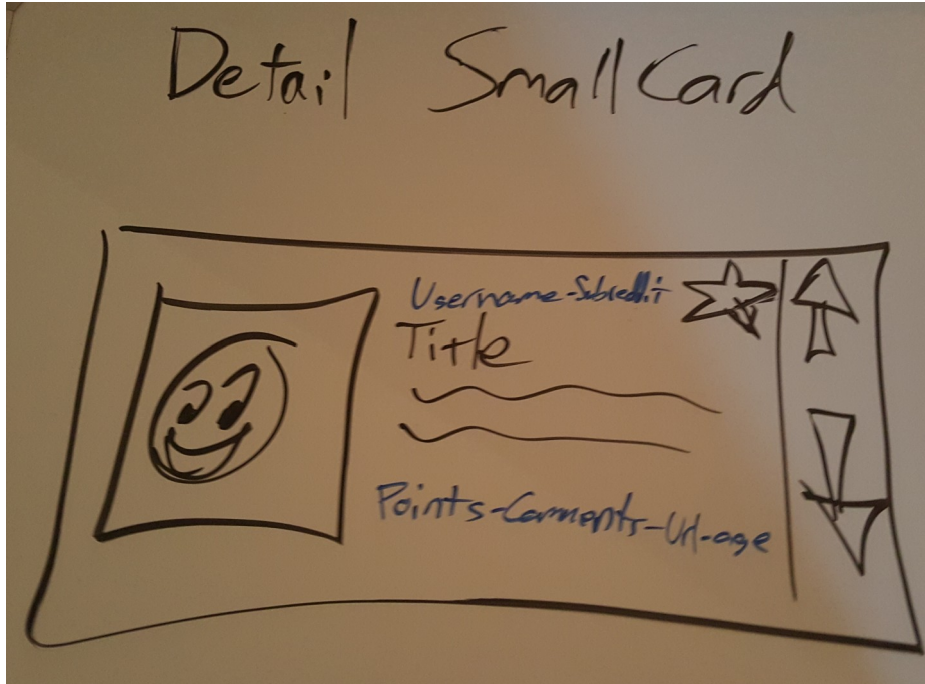
the post. The up and down arrows can be used to vote on the post.

Post Text



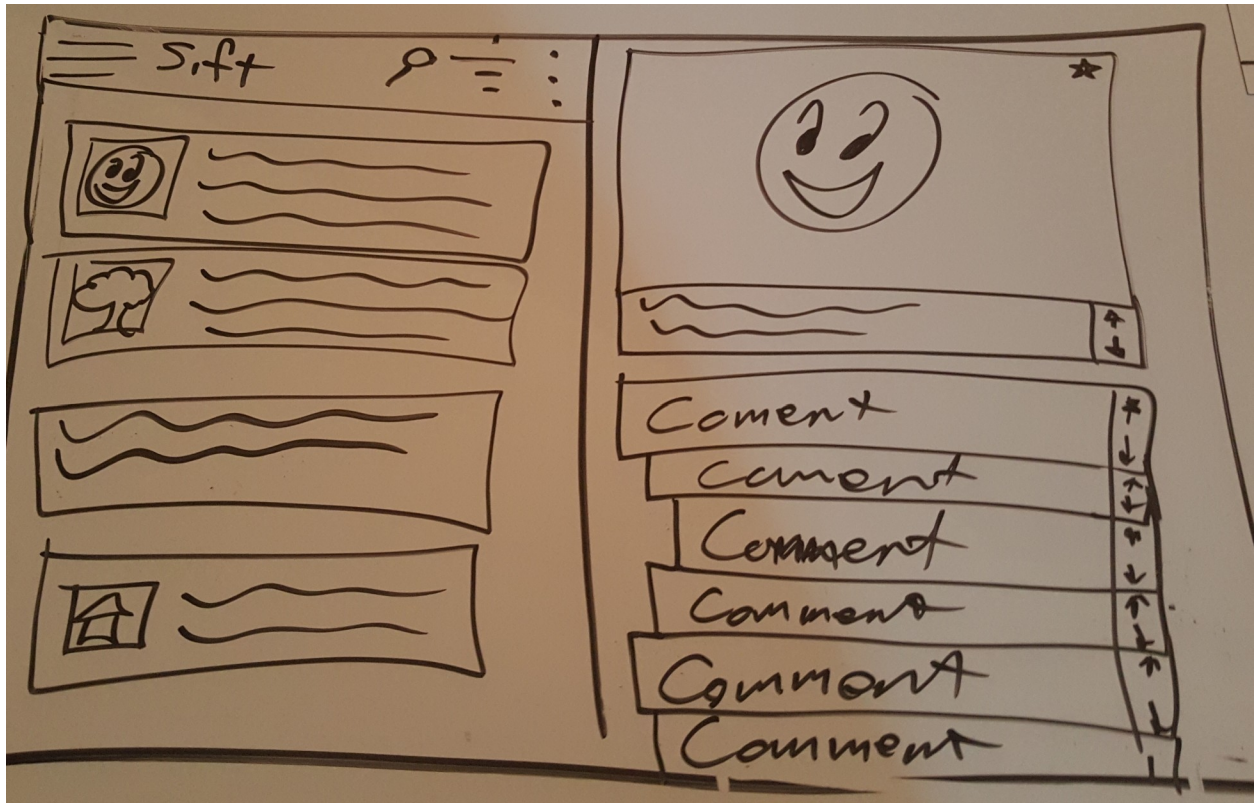
If the post does not contain an image, this layout will be used instead.

Small Card



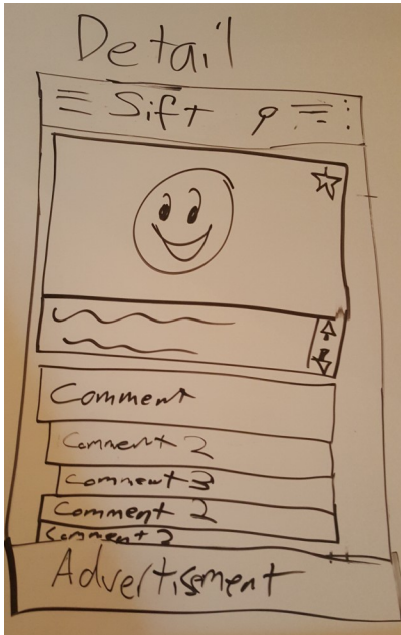
A smaller card layout will be used for tablets in the master detail layout to show more listings on the master side.

Tablet Master-Detail



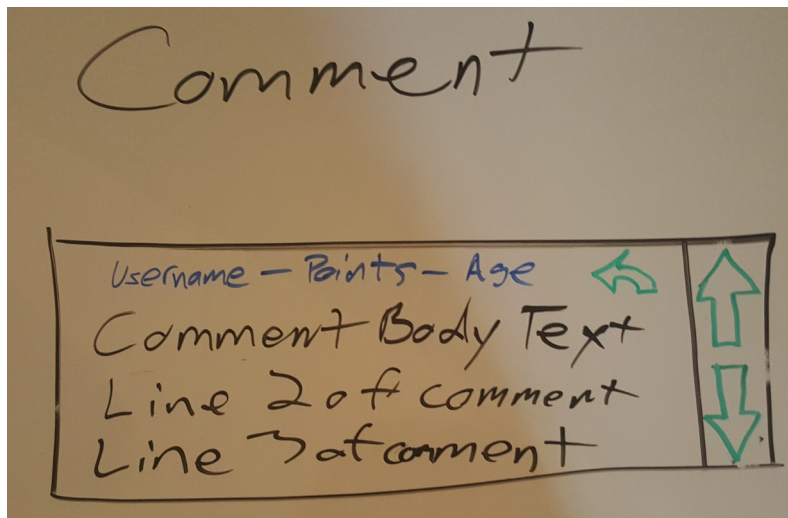
Small cards for each listing will be on the left, with the full detail page including comments on the right.

Detail



When the user clicks a post from the Main Activity, they will be sent to the DetailActivity, which will display the post information and allow the user to vote on the post or save the post. Below the post information will be a comment tree that can expand and collapse by tapping the comment.

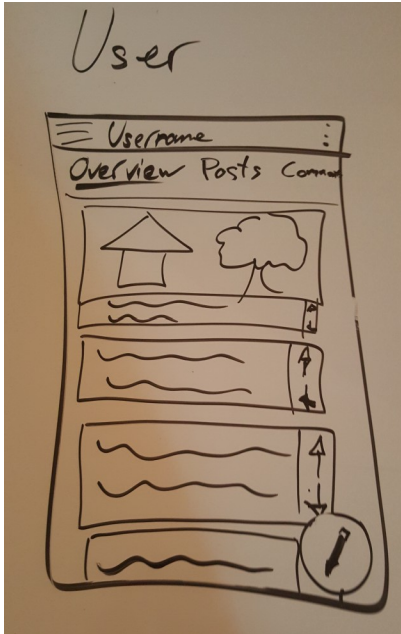
Comment



Each comment will have this layout. The comment will be shown along with information on the user who posted it, how long ago it was posted, and how many points it has. The user can vote

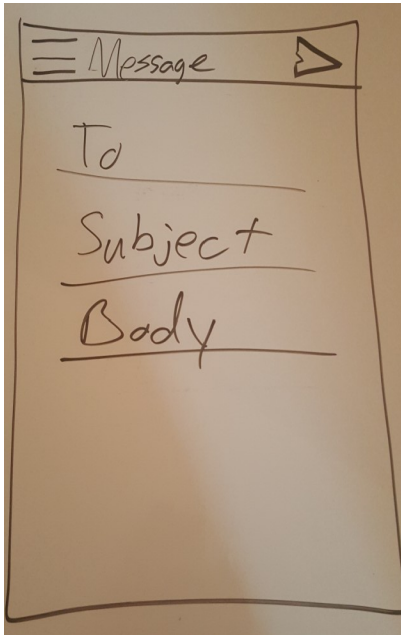
on the comment with the up and down arrows and can reply to the comment with the reply arrow in the upper right.

User



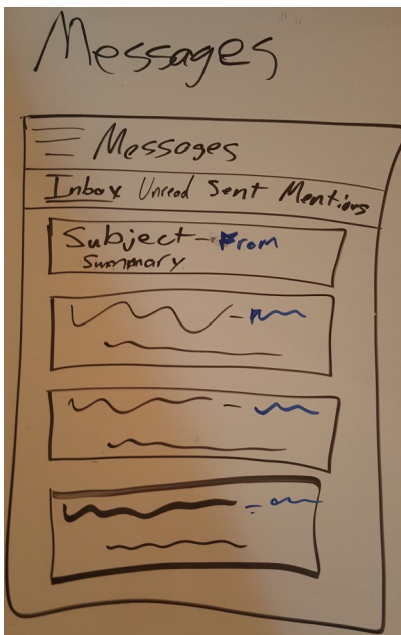
If the user clicks on the username of a post, they will be sent to this user info page. Here they can view the users posts and comments. They can send this user a message by clicking on the fab.

Compose Message



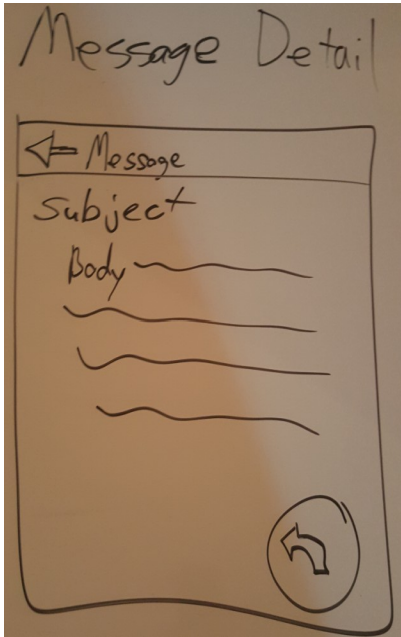
The user can send a message by filling in the To, Subject, and Body fields and then clicking the send button in the toolbar.

Messages



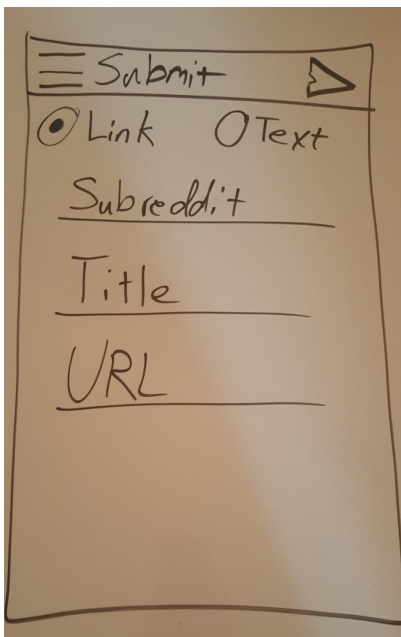
A users private messages can be viewed in a list showing the subject, the sender, and a summary of the body text. The user can swipe to the side to view Inbox, Unread, Sent, and Mentions.

Message Detail



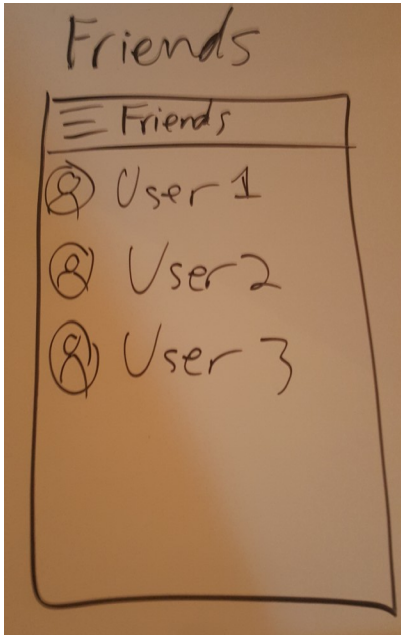
Clicking a message will open the message detail which shows the subject and the full body of the message. A fab allows the user to respond to the message.

Submit



The user will be able to submit posts by clicking “Submit” in the navigation drawer. They will enter the subreddit, title, and url or text and then click the send button in the toolbar.

Friends



The user can view their friend list by clicking “Friends” in the navigation drawer. The usernames will be listed alongside their profile pic and on click will open their UserInfo.

Key Considerations

How will your app handle data persistence?

Posts will be cached in a database and accessed via a content provider to maintain a fluid experience between syncs of new data.

Describe any corner cases in the UX.

When there is no internet connection, the app will show cached posts.

If the user makes changes that must sync to the server when there is no internet connection, the changes will be made to the database and marked with a dirty bit to be synced to the server when a connection is made.

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

Picasso will be used to load images.

JRAW Reddit Java Wrapper Library will be used for API access.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Configure libraries
- Set up GitHub repository
- Register with Reddit API

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for SubredditFragment
- Build UI for PostDetailActivity
- Build UI for UserInfoActivity
- Build UI for FriendsListActivity
- Build UI for ComposeMessageActivity
- Build UI for MessagesActivity
- Build UI for SubmitPostActivity
- Build UI for SettingsActivity
- Build UI for SubredditsActivity
- Build UI for AccountInfoActivity

Task 3: Design Database

- Create Contract class define data
- Create Helper class to build database
- Create Content Provider to interact with Database

Task 4: Implement Functionality

- Implement functionality for MainActivity
- Implement functionality for SubredditFragment
- Implement functionality for PostDetailActivity
- Implement functionality for UserInfoActivity
- Implement functionality for FriendsListActivity
- Implement functionality for ComposeMessageActivity
- Implement functionality for MessagesActivity
- Implement functionality for SubmitPostActivity
- Implement functionality for SettingsActivity
- Implement functionality for SubredditsActivity
- Implement functionality for AccountInfoActivity

Task 5: Implement Unit Tests

Integrate Unit tests for all subtasks of the application

Task 5: Add Accessibility Options

- Add Content Descriptions
- D-pad navigation

Task 6: Implement Notifications

- Notifications for messages
- Notifications for comments and replies

Task 7: Build Widget

- Design and build layout
- Implement functionality