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SimpleViewer for Reddit

Description

SimpleViewer for Reddit is the app for Reddit fans.

It helps to keep track of all the subreddits you're interested in. You can subscribe to your favourite topics and the app shows you recent posts.

Intended User

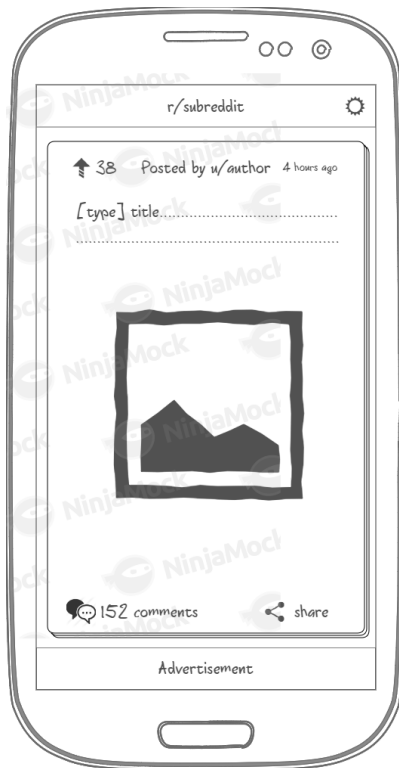
Reddit users who subscribed to many subreddits and users that want to be updated with recent posts on the go.

Features

- Follow subreddits
- Display posts in app and widget

User Interface Mocks

Main Screen



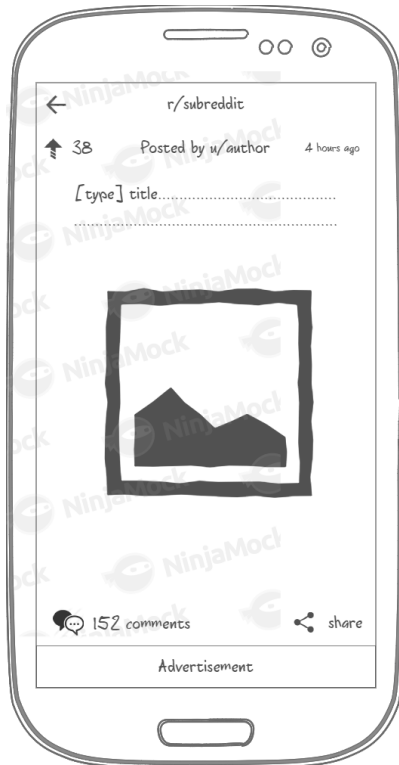
The main screen is the entry point of the app. Posts from subscribed subreddits are shown here. The user can swipe the card from the screen to see a new post. After a click on the gear wheel icon in the top right corner the subscriptions screen is shown.

Subscriptions



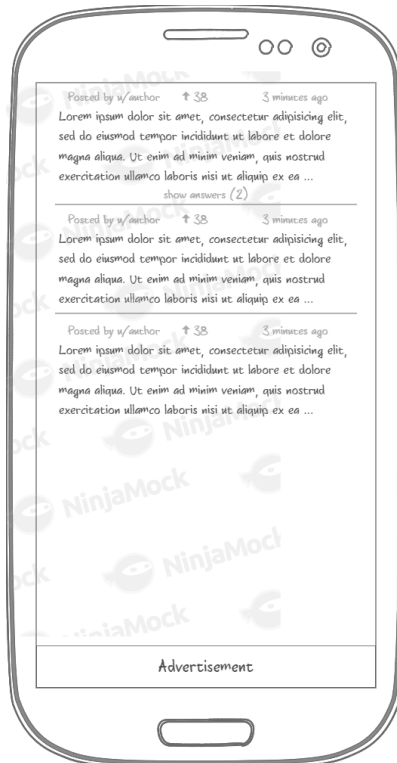
On the subscriptions screen the user can search for subreddits to subscribe to and unsubscribe from subreddits.

Post Detail



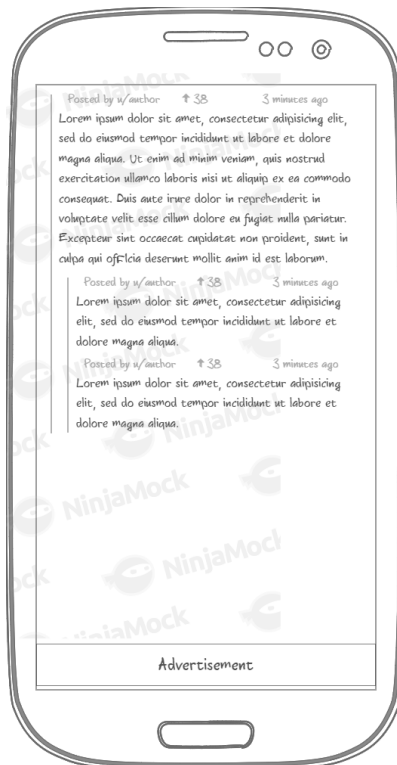
When the card with a post on the main screen is clicked the card expands to the full screen and the post detail screen is shown. It displays the full post and is scrollable.

Comments Preview



After a click on the comments icon or label of a post the comments preview screen is shown. It displays a scrollable preview of all comments. To show text that is cut off and answers the user can tap the comment or “show answers”-label.

Comment Detail



The comment detail screen displays the full comment and answers to it.

Widget



The app widget displays a simple preview of a post. The user can request to show a new post or to open the app to show more details via the two buttons.

Key Considerations

The app will be written in the Java Programming language and make use of stable release versions of Android Studio, Gradle and all libraries.

Android Studio	3.1.3
Gradle	4.4
Picasso	2.71828

Posts fetched from the API will only contain SFW content.

To provide the best experience for everyone RTL layout switching will be enabled, all strings kept in a strings.xml file and accessibility features supported.

Background tasks such as searching for subreddits will be handled by an AsyncTask.

Data persistence

The names of the subscribed subreddits and a few posts for offline usage will be stored in two separate tables in a SQLite database and accessed with the help of a Content Provider.

UX edge/corner cases

If the app cannot fetch posts from the API, e.g. because of missing network connection, it will display the posts saved offline in the database. If there aren't any an error message explaining the problem will be shown.

Libraries

Picasso will be used to load and cache images.

Google Play Services and other external services

The app will use AdMob to display ads to the user and Drive to save the names of the subscribed subreddits so that the subscriptions can be restored.

Next Steps: Required Tasks

Task 1: Project Setup

- Configure libraries and dependencies
- Get API key
- Create custom objects to hold data

Task 2: User Interface

- Build UIs for all Activities
- Build UI for Widget

Task 3: API

- Implement API requests

- Convert JSON result to custom objects

Task 4: Database

- Set up database and Content Provider
- Set up helper methods

Task 5: Display Data

- Load data from db/network
- Populate views
- Create widget

Task 6: Advertisement

- Display test ad

Task 7: BackUp Subscriptions

- Connect to drive
- Save to/load from drive

Task 8: Design & Animation

- Implement Material Design
- Add transitions

Task 9: APK Signing

- Sign apk