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Submission Instructions

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<u>Description</u>

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

GitHub Username: SI0b

ReadItAll

Description

This app will present you with a list of top 1 posts from each of the subreddit in your subscription. For example, if you are subscribed to 20 subreddits, read 20 posts total and you are done for the day! Want to go deeper? Swipe the post to the left and read top 2nd post...

Intended User

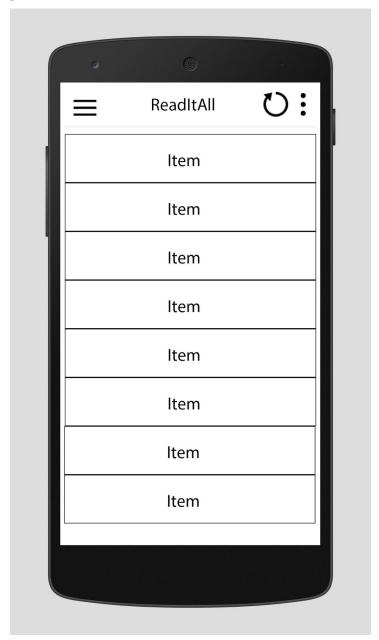
Readers of popular entertainment and social news networking service reddit.com

Features

- Allows adding to or removing subreddits from your subscription list.
- Presents list of top 1 posts from each of the subreddits in user's subscription.
- Allows dismissing the post (swiping to the left) to present 2nd post.
- Allows opening details view of the post with the comments.
- Allows opening a post link(s) to images, videos, websites in internal and external browser or image/video viewer.
- Allows but doesn't require logging in to reddit account.

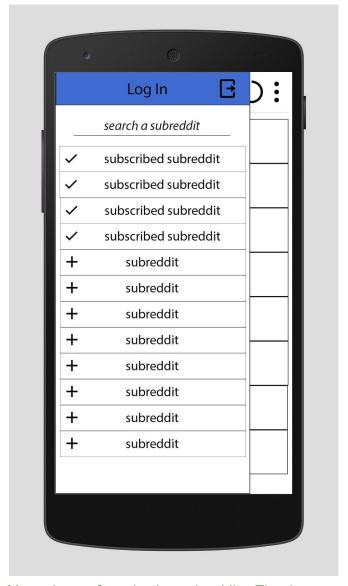
User Interface Mocks

Screen 1



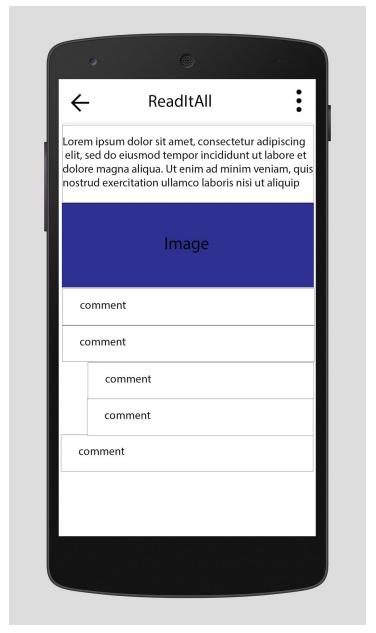
In this activity you have a list of the top post from your subreddits, you can swipe each item in the list to obtain the next top post from this subbreddit and swipe back to the previous one.

Screen 2



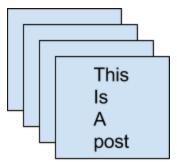
Menu drawer for selecting subreddits. The drawer on its top has a button for logging in / out.

Screen 3



Details view with image (if any) and comments.

Screen 4



This is what the widget could look like.

Key Considerations

How will your app handle data persistence?

App will keep data in content provider (mysql database)

Describe any corner cases in the UX.

For tablet and phone modes, when clicking on a link in a post, internal browser (WebView) will be opened in a new activity. For tablet mode, it could have been done by opening up an internal browser in a fragment to the right of the posts list, but it would create confusing experience as some users would then expect the back button to return to a listview with details fragment on the right, others to exit the app.

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

Picasso for loading and caching of images.

Describe how you will implement Google Play Services.

Google ads and analytics will be used.

Next Steps: Required Tasks

Task 1: Project Setup

Create a project with minimum API level 16 and Navigation Drawer Activity. Implement Picasso.

Task 2: Implement UI for Each Activity and Fragment

- Build UI for drawer's list of subreddits with an option to subscribe/unsubscribe.
 - Support case of logged in user (subscription list is retrieved from reddit.com).
 - Support case of anonymous user (subscription list is stored in content provider).
 - Implement searching by subreddit name and adding found subreddit to subscription.
- Build UI for drawers top allowing logging in and out.
 - Build UI of dialog for logging in under stored user credentials and adding a new user
 - Build UI of activity for logging in with provided user credentials.
- Build UI for main activity list of top #1 posts from each of subscribed subreddits.
- Build UI for details activity (phone mode) and details fragment (tablet mode).
- Build UI for internal browser activity.

Task 3: Implement communication with reddit.com and content provider

- Implement storing user credentials in content provider in encrypted form.
- Implement logging in to reddit.com with user credentials and retrieving subscription list.
- Implement updating subscription list at reddit.com with the changes made by the user.
- Implement storing subscription list in content provider.
- Implement retrieving top N posts data from selected subreddits.
 - Implement parsing JSON for all required types of requests (for list view and for details view with comments). Review available libraries and consider using most suitable library.
 - Make sure for list view only information required for the view is requested (i.e. no need to request comments).
 - Make sure smallsized images are requested for list mode and appropriate resolution images are requested for details view of phone and tablet.
 - Implement using Picasso for retrieving and caching of images.
- Implement storing retrieved data in content provider for reuse (until user touches 'refresh').
- Implement Loader to move data to the views.

Task 4: Implement Options menu and Settings Activity

- Implement Options menu for each activity and handlers for menu items.
- Implement Settings activity: for now it will have items for logging in / logging out, switch to allow/disable nsfw images, build # information.

Task 5: Technical

- Implement a widget to show N posts on user home screen.
- Will use an Async Task to Log the user and retrieve his subreddits.

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