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Reddit Eq Viewer

Description

Love Reddit but is getting lost in an ocean of post in your favorite subreddits? This “load-balancing” 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

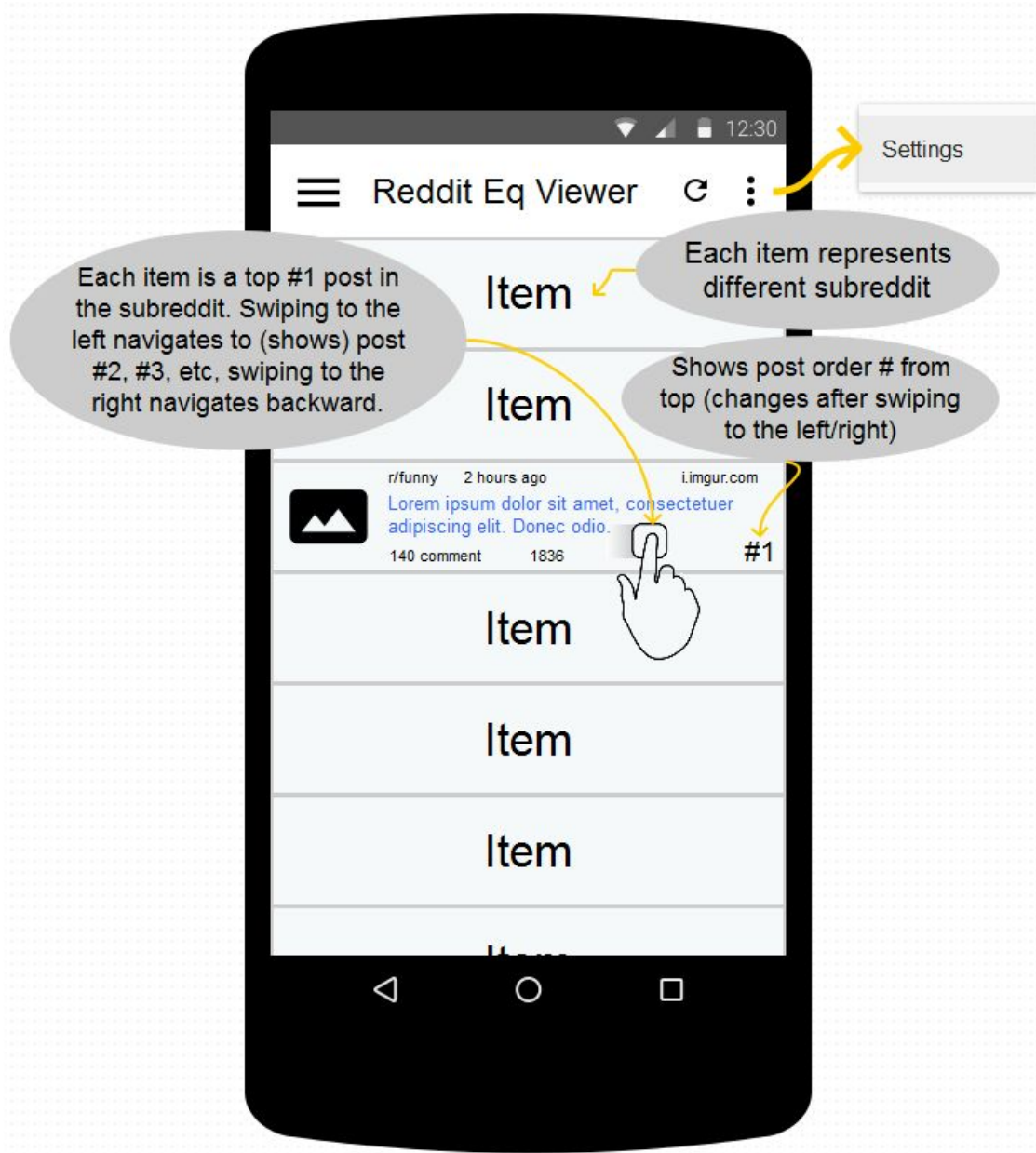
Features

- 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 top 2nd post from a subreddit, etc...
- Allows opening details view of the post with full-bleed image and 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.com

User Interface Mocks

Screen 1



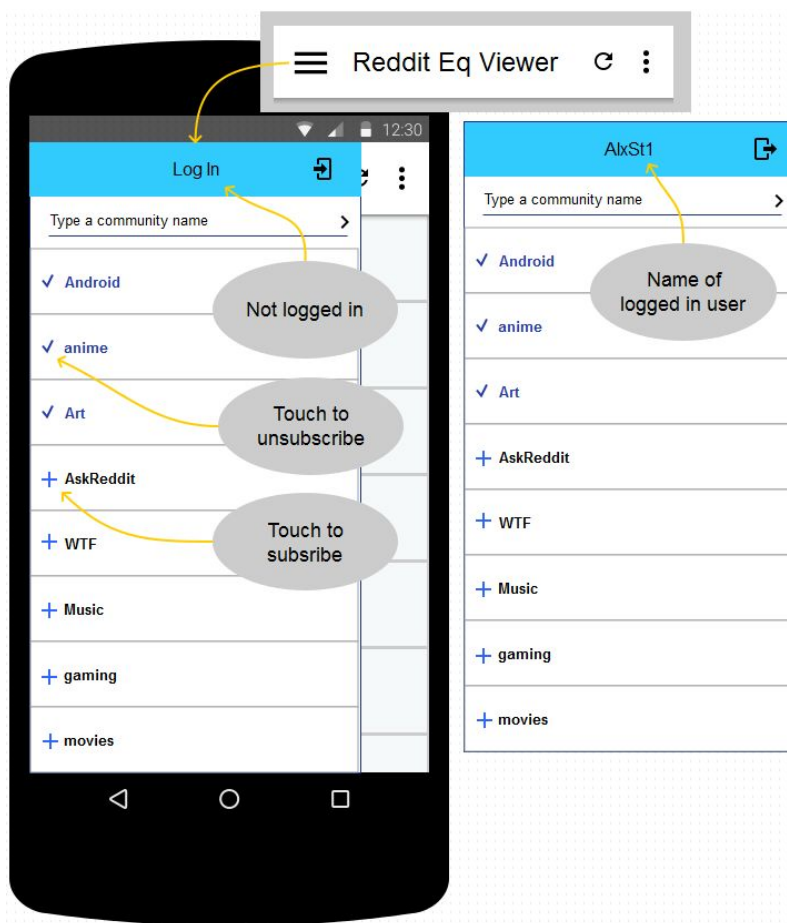
Application startup activity. The activity shows list of top #1 posts from each subreddit.

Screen 2



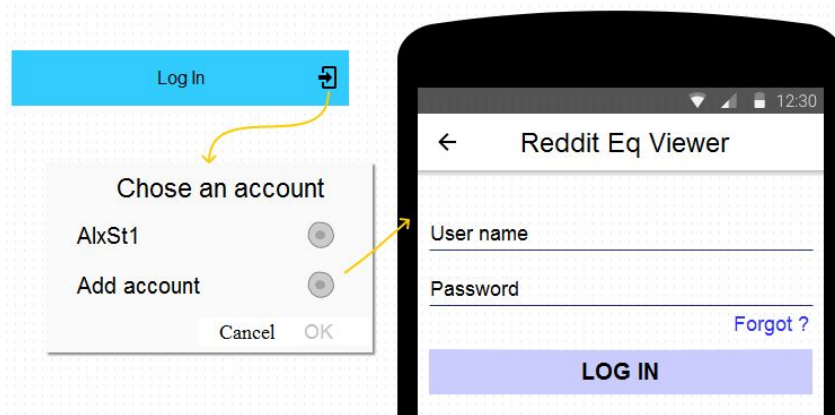
List item of application startup activity. Represents top #1 post from a subreddit. Touching an item will open a view with the post details and comments. If the post has a link, then touching an icon on the left will open the link in internal browser (WebView). On tablets, details and web view will open in a fragment to the right of the list.

Screen 3



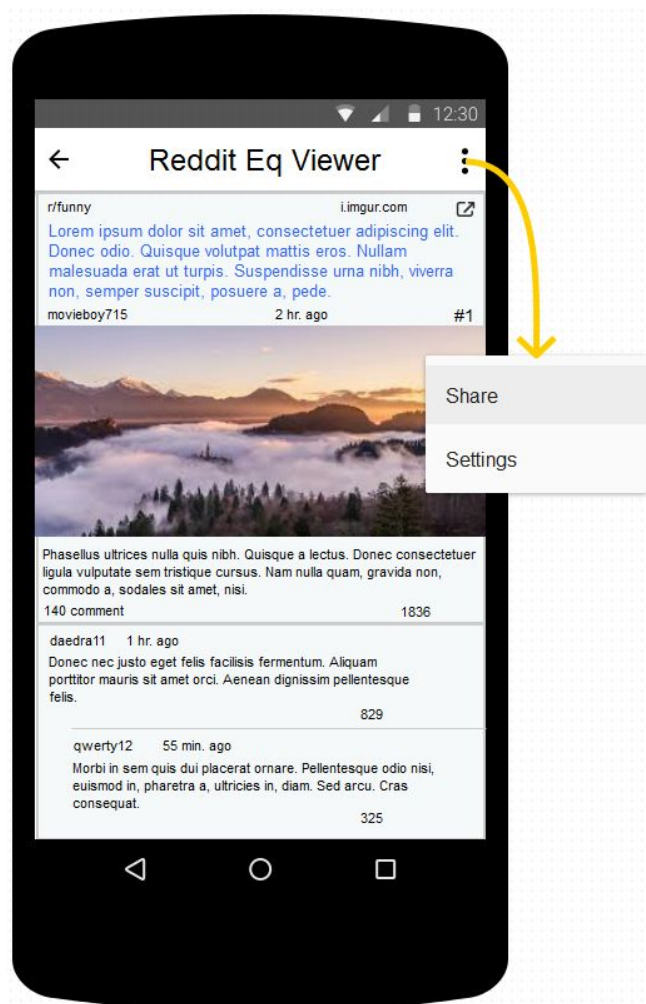
Application drawer opens up UI for selecting subreddits. The drawer on its top has a button for logging in / out.

Screen 3



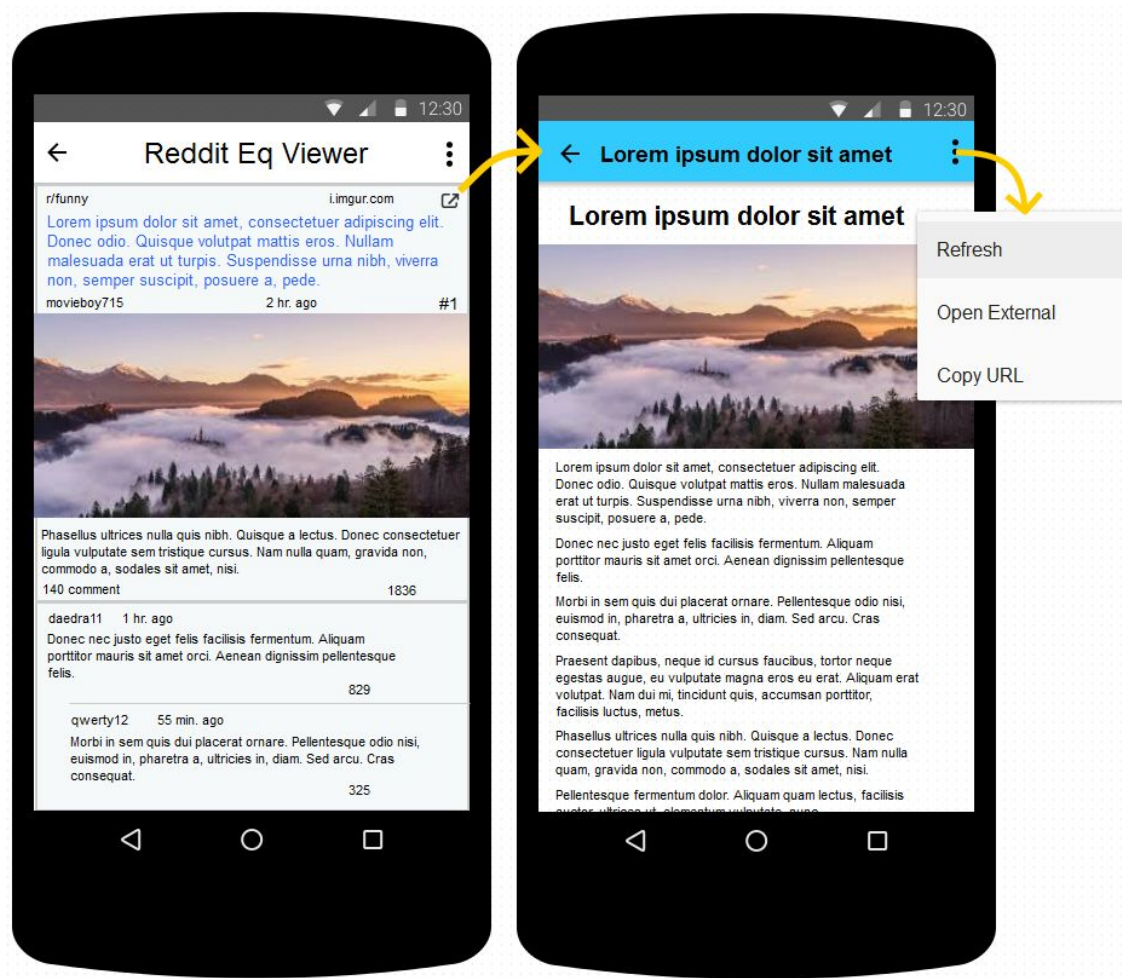
Adding an account opens up an activity for logging in.

Screen 4



Details view: post full text with full-bleed image and comments.

Screen 5



Touching link icon in a post opens up activity with article content shown in internal browser (WebView).

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 open in a new activity. For the 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 expect then the back button to return to a listview with details fragment on the right, others - to exit the app. In either case experience in reading an article full screen is better than in a fragment to the right of a listview.

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

Picasso library will be used for loading and caching of images.

Next Steps: Required Tasks

Task 1: Project Setup

Create a project with minimum API level 16 (Jelly Bean) and Navigation Drawer Activity.
Download configure Picasso library

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 (screen 3)
- 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 small-sized 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')

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 to for logging in / logging out, switch to allow/disable nsfw images, build # information.
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