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Read-It

Description

“Read-It” is a Android app that allows users to keep up with the news/posts/threads from Reddit efficiently.

Problem:

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.

Solution:

Design an app that allows a user to indicate a set of subreddits that they would like to follow and store. Your app should present them with a post from one of their selected subreddits. They can interact with the post (i.e. view image posts, play video posts. etc) or they can dismiss it to receive another. You should display comments (or a subset), thumbnails, and comment text and links. You should use intents to communicate with the Android apps, components and services

that you don't want to or cannot implement. For instance, to view a link, you could use a `WebView` or you could send an intent to the browser.

Intended User

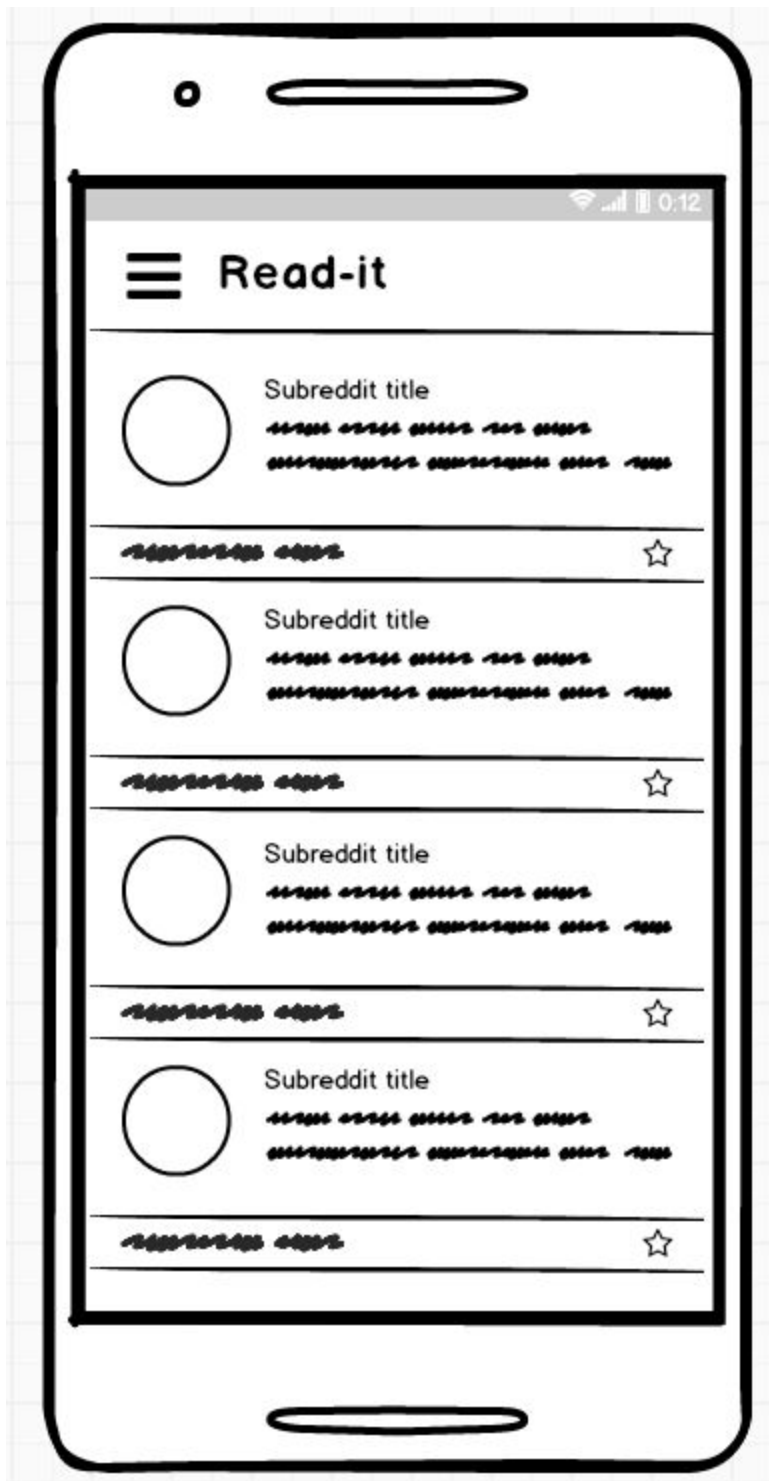
Reddit user who needs a quick way to view their favorite subreddits.

Features

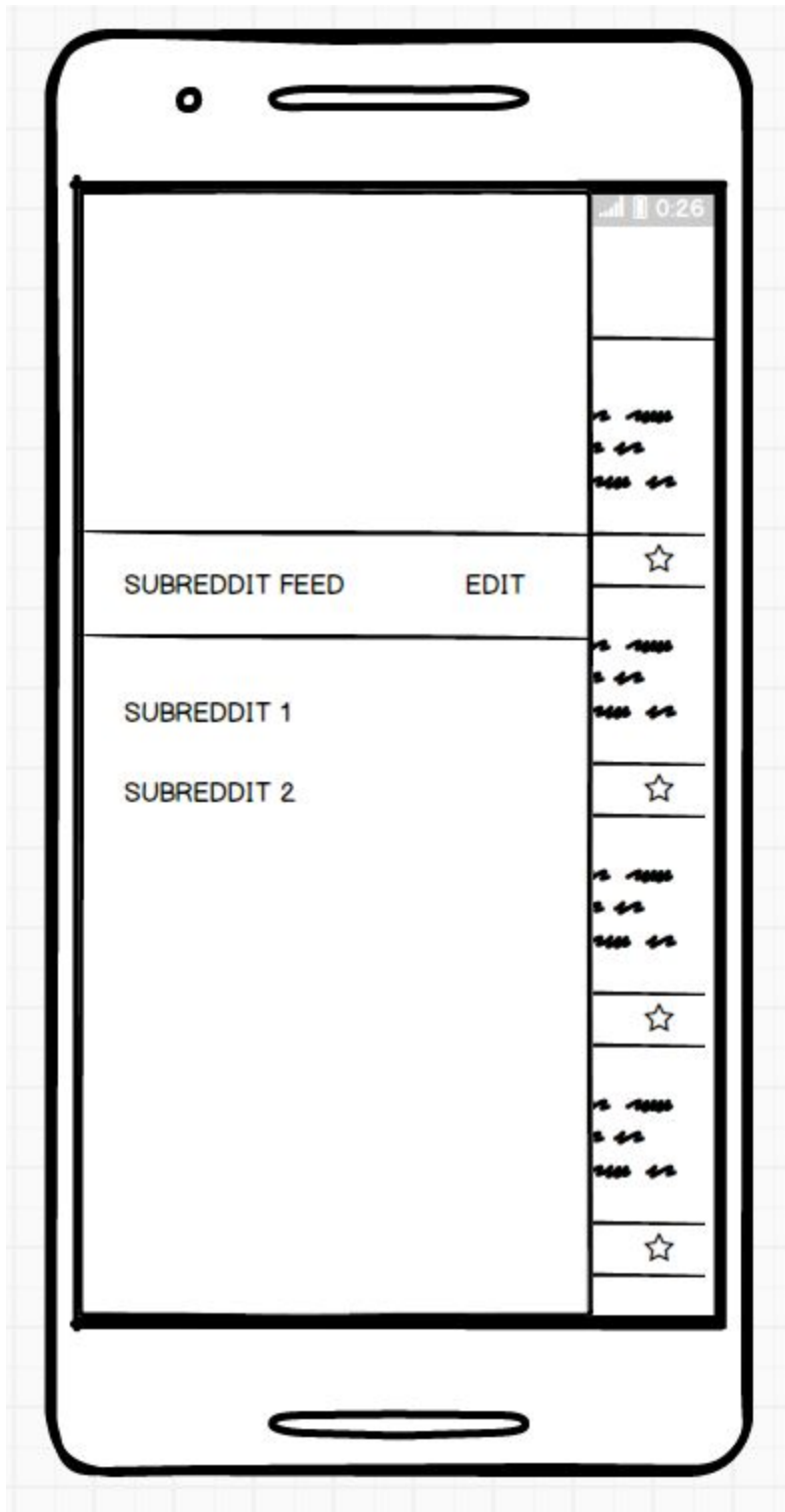
- Presents subreddits in list view
- Open detail view of each subreddit
- Share post outside the app
- Integrates banner ads
- Integrates Google analytics for tracking

User Interface Mocks

Main Activity Screen

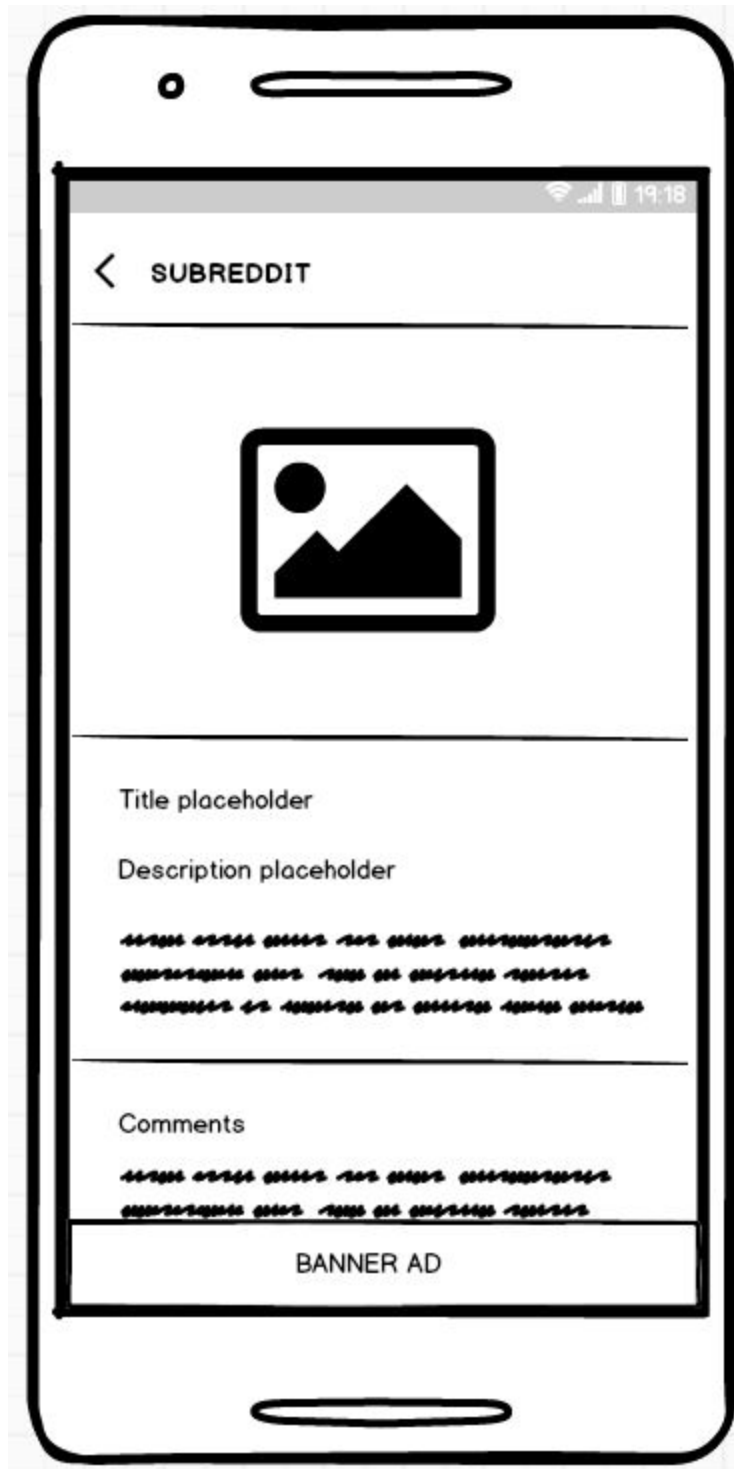


The main activity screen displays a scrollable list of reddit posts.



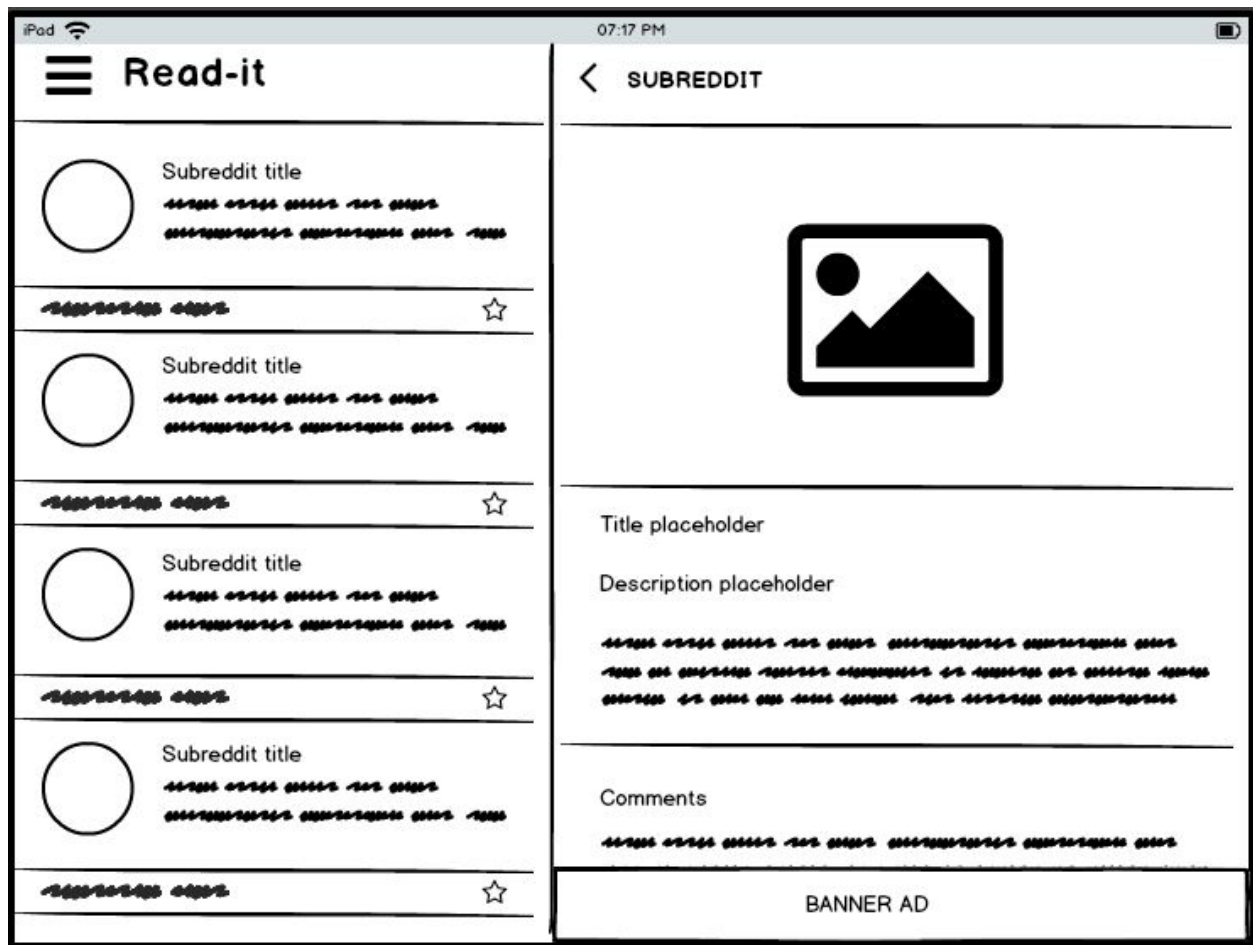
User can select the subreddits form the navigation drawer

Detail Activity Screen



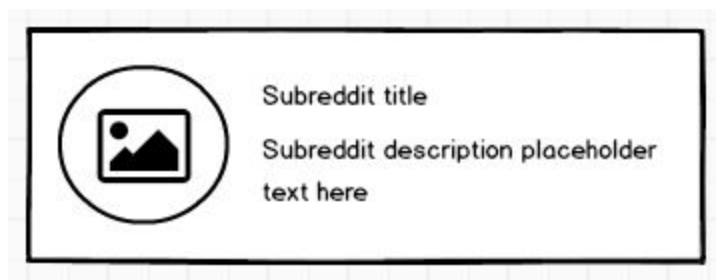
This screen displays the details about subreddits with full bleed image post description and comments.

Tablet screen



The tablet view displays the master detail screen with the list view and details view on the main screen.

App widget



Clicking on the widget would open the detail activity of the subreddit post. The user can choose which subreddit should be displayed on the widget.

Key Considerations

How will your app handle data persistence?

App will store all reddit data in SQLite database and use content provider to retrieve and update it. Data will be regularly updated by SyncAdapter. Settings will be stored in SharedPreferences.

Describe any corner cases in the UX.

If user enters an invalid subreddit they will be warned by a toast message.

If case of network issue the app will display a toast message warning the user.

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

Picasso to handle the loading and caching of images.

Retrofit to simplify network call

Gson library for parsing the JSON response

.

Describe how you will implement Google Play Services.

App uses Google AdMob service to display advertisement banner and Google firebase analytics service for logging user activity.

Next Steps: Required Tasks

Task 1: Project Setup

Configure following libraries in Gradle file

- Picasso
- Retrofit
- Firebase ads
- Analytics service.

Task 2: Implement UI for Each Activity and Fragment

- Create basic application with navigation drawer and action bar
- Create Main Activity and Detail Activity
- Create fragments for main and details screen

Task 3: Create service and content provider to fetch and store data

- Create service for fetching the reddit data.
- Create database structure, contract and helper
- Parse JSON response using the GSON library
- Create content provider to fetch and store data
- Create a loader to display data on the UI

Task 4: Integrate Google Play Service

- Configure Google Ad service in gradle
- Add the AdView in the XML file
- Configure the AdRequest builder
- Configure Google Play service for the Analytics in the gradle file

Task 5: Implement app widget

- Create remote view layout for the widget
- Create RemoteViewService for updating the widget

Task 6: Testing and Finalization

- Configure keystore in the gradle file
 - Test app on actual Mobile and Tablet
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