RSSREADER

RSSReader app is more useful for users who want to stay up to date with latest news. This app allows users to keep track of all their favorite websites and blogs. It also provides segregation of feeds into categories to make it easier for the user to choose from. This app is organized into 6 screens

1. Subscriptions Screen

- In this screen the user can view the feeds to which he subscribed.
- Feeds are organized into categories. Feeds to which the user subscribed manually(custom feeds) are shown in a different section called custom feeds.
- User can delete his subscriptions by long pressing the item. Contextual action mode is used for deletion
- User can add new subscription by clicking on + button
- Clicking on a feed name takes the user to another screen where he can view all the items of the feed.

2. Categories Screen

- User can select a category to view the feeds available in each category.
- The categories and their feeds information are retrieved from parse database.

3. Feeds Screen

- This screen shows the list of feeds that are provided by default.
- User can make multiple selection of feeds.
- When the user clicks done button his choices will be saved to his local sqlite database and he will be popped out to the initial screen to the appropriate position and shows the list of his subscriptions.

4. Feed Items Screen

- This screen shows the items available in the selected feed.
- User can view the title and date of the feed. Items are ordered according to the contents of the feed.
- User can search for an item. The search string is used to filter the items based on title.
- Clicking on an item takes the user to a web view where he can view the full content of the item.
  Parsing
- Android standard XMLPullParser is used for parsing the rss link and retrieving the items
- Two RSS formats RSS 2.0 and ATOM 1.0 only are supported.

5. Add Custom Subscription Screen

- In this screen the user can add a custom feed to his subscriptions list.

- The user must provide a title for the feed and either an RSS link or url of webpage. If the user doesn't provide these inputs an error alert will be provided.
- If the user enters a webpage url, the concept of RSS auto discovery is used to retrieve the rss link.

AutoDiscovery

- First the mime type of the url is checked to determine if it is a url or an rss link. Most of the RSS links have .xml extension.
- If the url is not an rss link , the html page source is retrieved.
- Then jsoup library is used to retrieve the rss link which has rel="alternate" and type="application/rss+xml" or type="application/atom+xml".

6.Settings

- The user can customize the maximum number of items shown in a feed from the standard settings application
- For demonstration purpose range from 5-50 is provided. By default all items available in the feed will be displayed.
- For example, if the user selects the max feed count as 50, but if a feed doesn't have that many number of feeds, then only the available number of feeds will be shown.

7. Web View

- The web view shows the content of the webpage. It can also contain ads if any.
- Until the web page finishes loading completely a loading message will be shown to the user in the action bar.
- User can swipe left or right to view successive web pages.
- User can open the article in his phone's local browser using the 'Open in browser' icon
- User can share the article using mediums like facebook, twitter,gmail,messaging,hangouts etc.. User must have these apps installed on his phone

Support for offline mode

The app supports offline mode . The contents of the app are cached locally. If the content is not cached when the app is online, appropriate offline messages are provided.