How to Use this Template

1. Make a copy [File → Make a copy...]
2. Rename this file: "**Capstone_Stage1**"
3. Replace the text in green

Submission Instructions

1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"

GitHub Username: rdayala

App name : News Diary

Description

Get upto date with news and also manage news. The app reads rss news feeds and stores them in your device.You can tag them to track in future.

Intended User

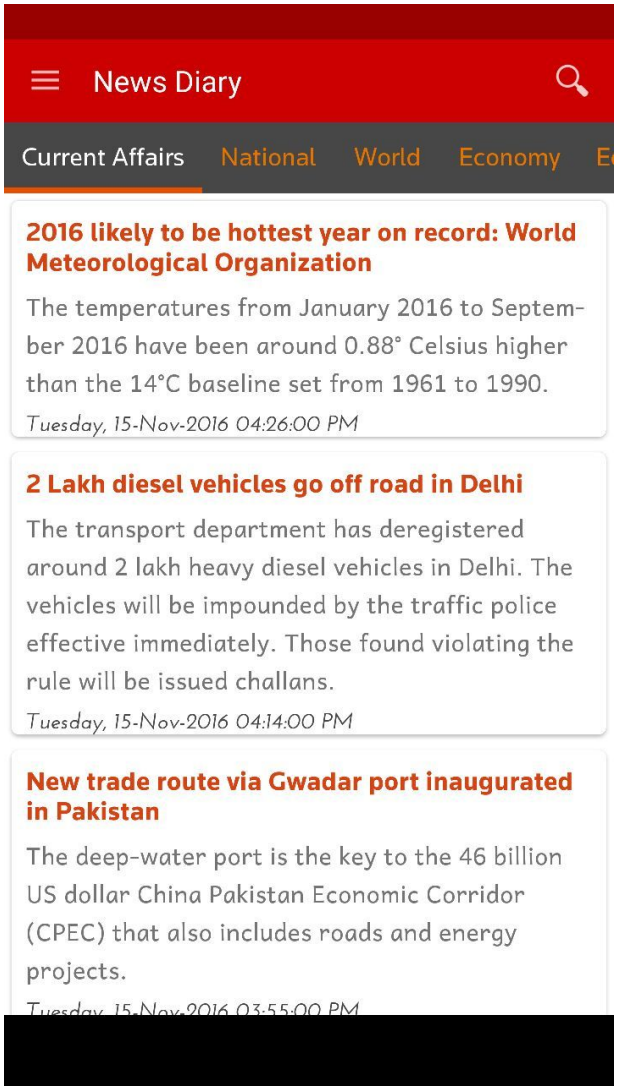
The app is specially for students who are preparing for various competitive exams and want to manage news items and current affairs. As well, this app can be used by any who want to track and manage news.

Features

- Reads news feeds
- Caching of news items.
- Automatic refresh of news items
- Send notifications
- Bookmark news
- Tagging of news items.
- Search using tags
- Sharing news item with others

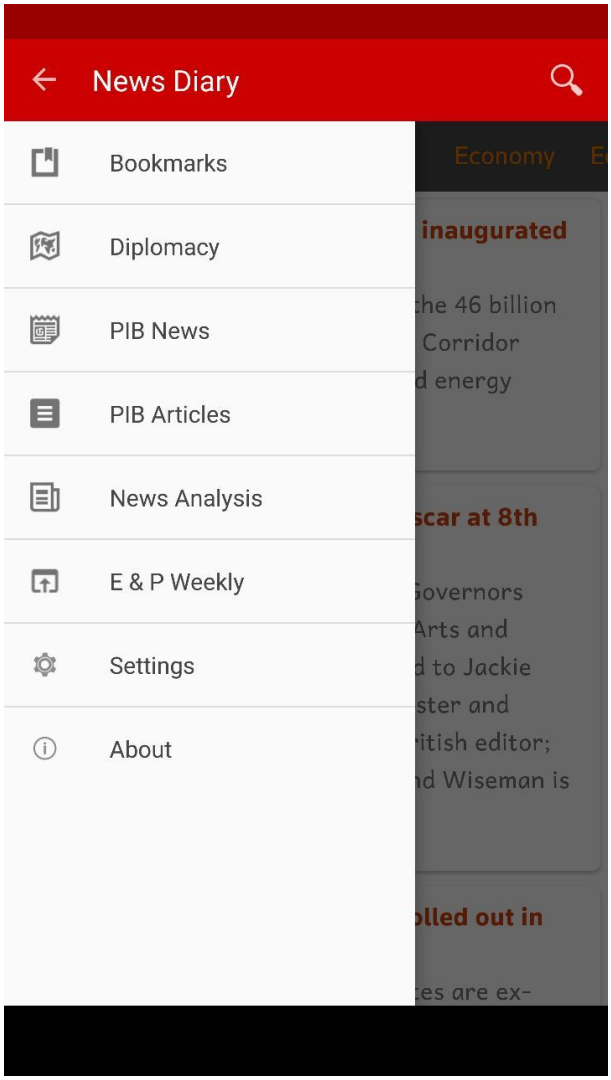
User Interface Mocks

Screen 1



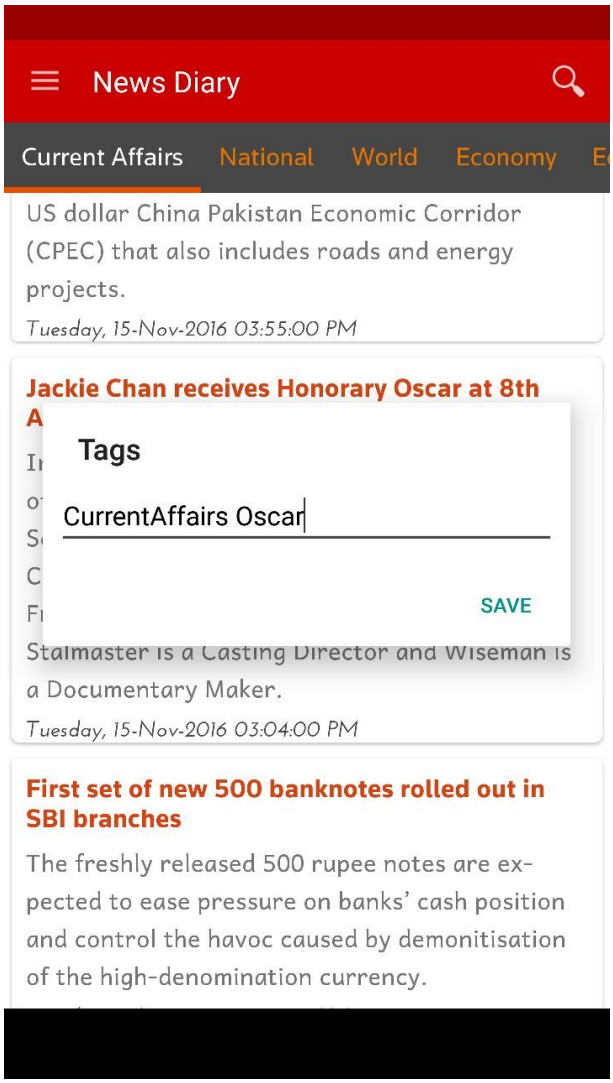
This screen gives you the list of news items. It is a tabbed screen.

Screen 2



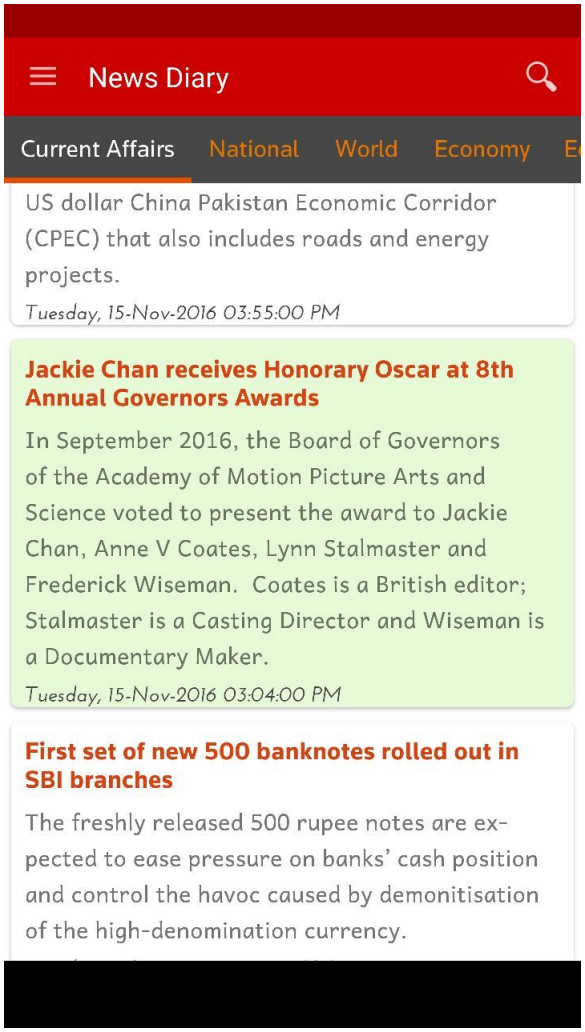
It is a navigation screen where you can check for other items and can configure settings.

Screen 3



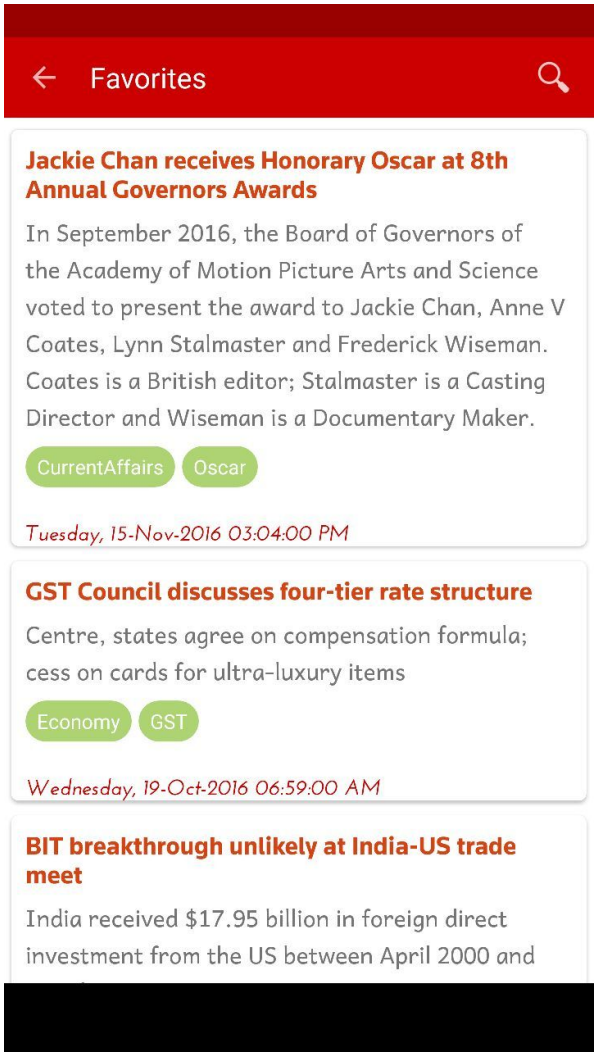
This screen gives you the option to bookmark and tag news items.

Screen 4



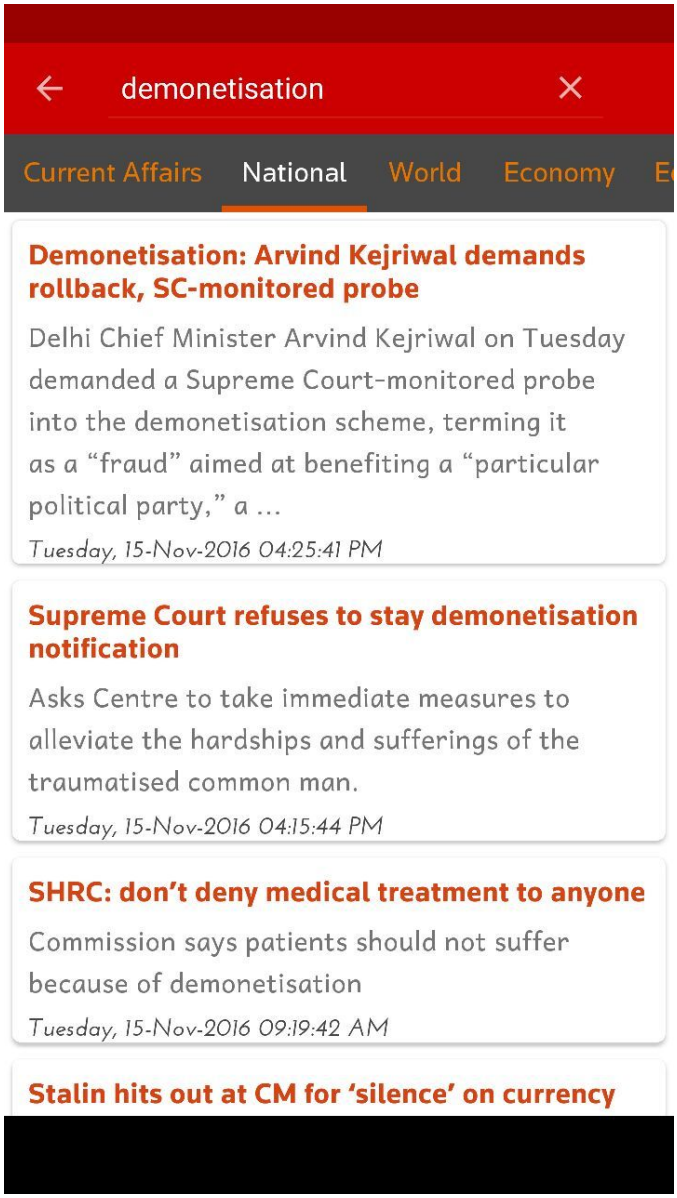
Bookmarked items will be shown in different color.

Screen 5



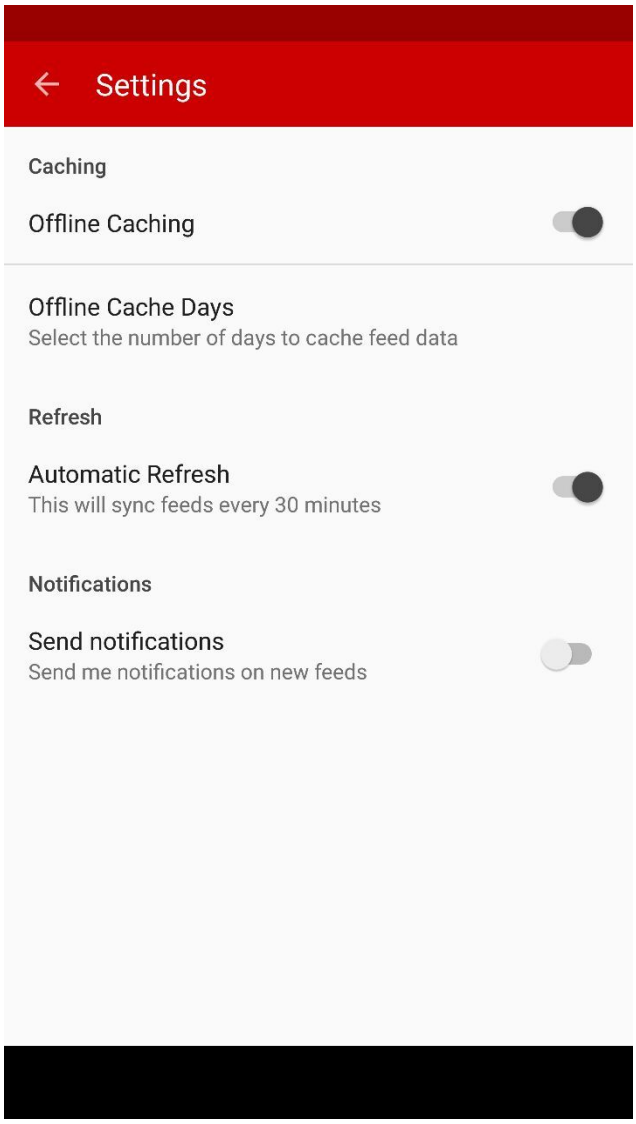
This screen shows you the bookmarked items and also shows the tags.

Screen 6



This screen filters news items using search criteria based on both title and data.

Screen 7



This screen shows you the settings options.

Key Considerations

How will your app handle data persistence?

All RSS feeds downloaded over the network. The app stores data in the device using Realm database.

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

Using Retrofit library for handling Http requests.
Using SimpleXMLFramework to process rss feeds data.
Using TagView library for managing tabs.
Using Realm database for storing data in device.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Configure libraries

Task 2: Build Data model

- Create model objects representing data retrieved from RSS feeds
- Build data model for storing RSS feeds into database

Task 3: Implement UI for Each Activity and Fragment

- Create MainActivity and fetch data from server
- Build UI for MainActivity
- Create Layout for news items.
- Build UI for each section of TabActivity
- Build UI for Navigation Drawer
- Build UI for settings section

- Build UI for Bookmark items.

Task 4: Logic Implementation

- Implement a navigation drawer
- Implement list of articles for each category
- Implement search functionality
- Implement share functionality
- Implement a service for automatic refresh and caching of data
- Implement bookmark functionality
- Implement tagging functionality
- Implement search filter using tag
- Implement search filter on news items on both title and description of news item
- Implement settings screen
- Implement services functionality for automatic refresh, and purging of older news feeds. It will not purge from favorites.

Notes:

1. App uses Retrofit for making Async network calls. It doesn't use AsyncTask directly.
2. No need to use Content provider, instead am planning to use RealmDatabase to read data from device.
3. Since, I want to make this app without any hassles, I'm planning not to use any of Google play services in this app for the moment.
