

## How to Use this Template

- Create a new document, and copy and paste the text from this template into your new document [ Select All → Copy → Paste into new document ]
- Name your document file: “**Capstone\_Stage1**”
- Replace the text in green

GitHub Username: FNSayyaj

# Radical News

## Description

Radical News gives the reader the power to read and look for every article worldwide on demand.

## Intended User

This app is designed to satisfy every person who is looking for the latest news about the world we are living in with the desired category.

## Features

- So many categories to choose from: Sport, Entertainment, Science, Technology, Economy, etc.
- Group articles by Country, Category.
- Search through millions of articles from over 30,000 large and small news sources and blogs.
- Bookmark articles so you can get back to them any time on the go.
- Share articles with friends and colleagues via popular social media
- 

## Specifications

- The app is written solely in the Java Programming Language.
- The app utilizes stable release versions of all libraries, Gradle, and Android Studio.

## User Interface Mocks

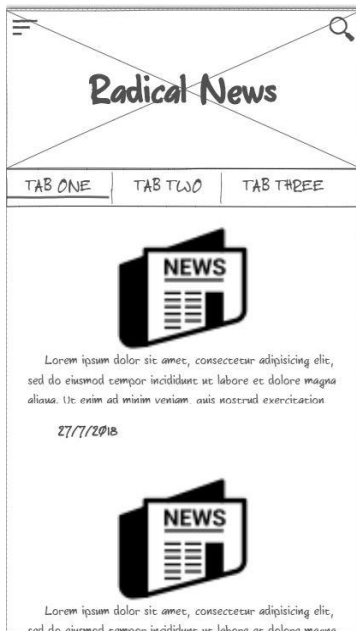
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Google Drawings, [www.ninjamock.com](http://www.ninjamock.com), Paper by 53, Photoshop or Balsamiq.

### Screen 1



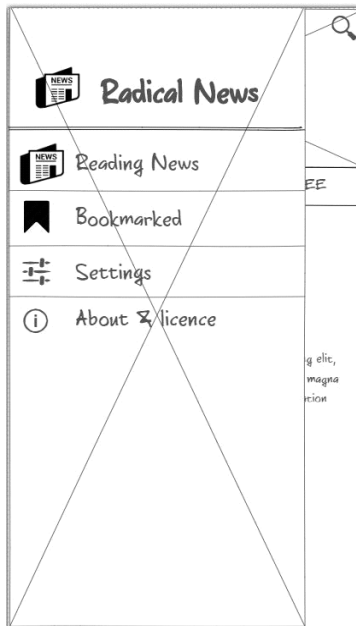
Splash Screen; shows the logo, name of the app and the API that app is using while the app loads all necessary resources in the background.

### Screen 2



Main Screen; this is where the user can navigate through the articles by category or by searching using a keyword. this screen consists of taps, the drawer button, search button and cards view to show the articles.

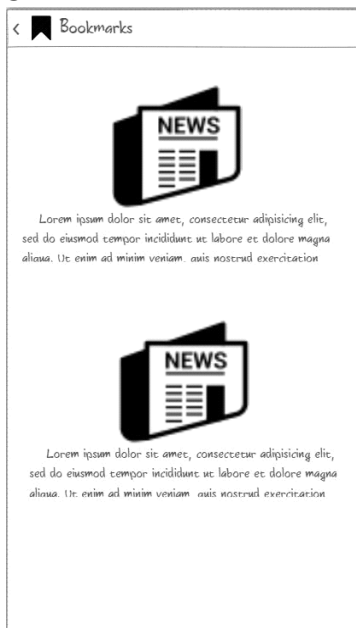
### Screen 3



The drawer screen; an example of what the drawer will consist of when the user opens it.

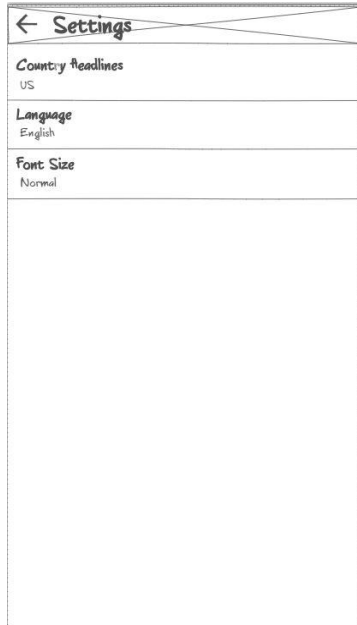
It will give the user the ability to navigate between headline news and bookmarked ones, also the user can alter app settings or read about the app.

### Screen 4



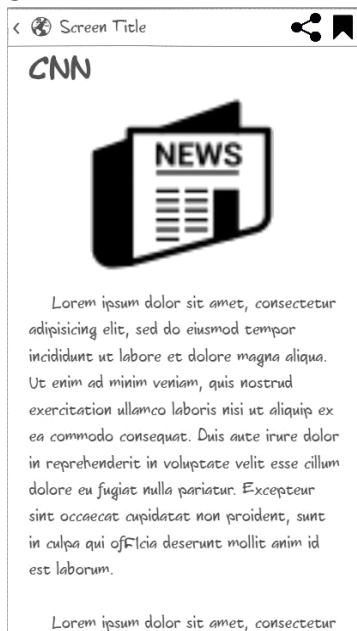
The bookmark screen; its where all the bookmarked articles by user live at. also, the articles are shown using CardView widget.

## Screen 5



The settings screen; where the user can alter the settings of the app, like changing the language of the app or the headlines country, even the font size can be altered.

## Screen 6



Final screen of the article itself, it was built using a webview, where it displays the article with the option of sharing or bookmarking it.

## Key Considerations

### How will your app handle data persistence?

Bookmarked articles will be saved locally using a `ContentProvider`

### Describe any edge or corner cases in the UX.

The UI will use the tab feature to allow users navigating between news categories easily without nothing more than a swipe, the UI will show the article in a `CradView` widget with the article picture and a brief description of it, surrounded by a `RecyclerView`.

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

- Picasso will be used for displaying and caching images of articles.
- `RecyclerView` will be used to display the contents of the main and bookmark screens.
- ButterKnife will be used to bind views.
- Volley will be used to parse JSON from [newsapi.org](https://newsapi.org).

### Describe how you will implement Google Play Services or other external services.

No services will be used in making this app.

## Next Steps: Required Tasks

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

### Task 1: Project Setup

- Implementing the required libraries for the project
- Check that every library and dependency is up-to-date and is on a stable version.

### Task 2: Implement UI for Each Activity and Fragment

- Build UI for `SplashScreen`.
- Build UI for `MainActivity`.
- Build UI for `WebViewActivity`.

- Build UI for SettingsActivity.
- Build UI for BookmarksActivity.

### Task 3: Implement the Newsapi.org API

- Parse received JSON using Volley library
- Populate the views with the parsing results.

### Task 4: Create the ContentProvider

- Create the ContentProvider to store bookmarked articles.

### Task 5: Implement the Settings Screen using PreferenceFragment

- SettingsActivity will be using a PreferenceFragment for changing settings regarding app language, font size, and news country.

### Submission Instructions

- After you've completed all the sections, download this document as a PDF [ File → Download as PDF ]
  - Make sure the PDF is named "**Capstone\_Stage1.pdf**"
- Submit the PDF as a zip or in a GitHub project repo using the project submission portal

If using GitHub:

- Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
- Add this document to your repo. Make sure it's named "**Capstone\_Stage1.pdf**"