

How to Use this Template

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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**”
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NewsAllTogether

Description

News paper / Technology articles from the top sources. By using this application, user will get all latest headlines/updates. User can share articles.

Intended User

Intended users of the application are News paper readers and tech enthusiasts

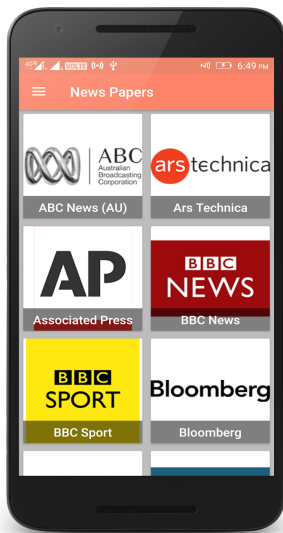
Features

- Latest Headlines from the top sources
- Sharing the news articles
- Technically, using firebase features like app indexing, dynamic links...etc

User Interface Mocks

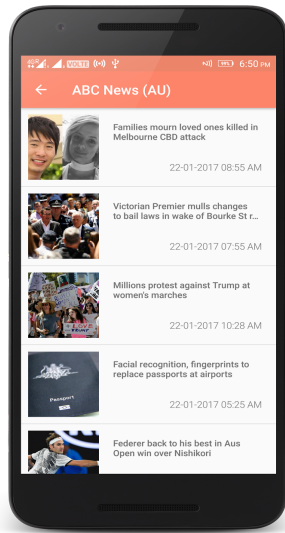
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1



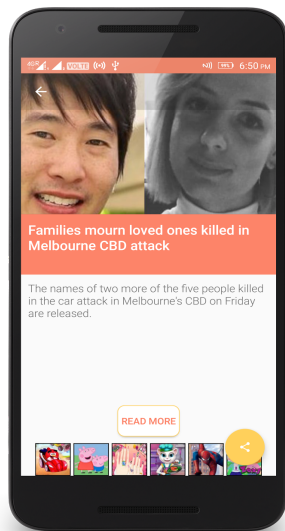
Home page shows the list of all news papers in gridview.

Screen 2



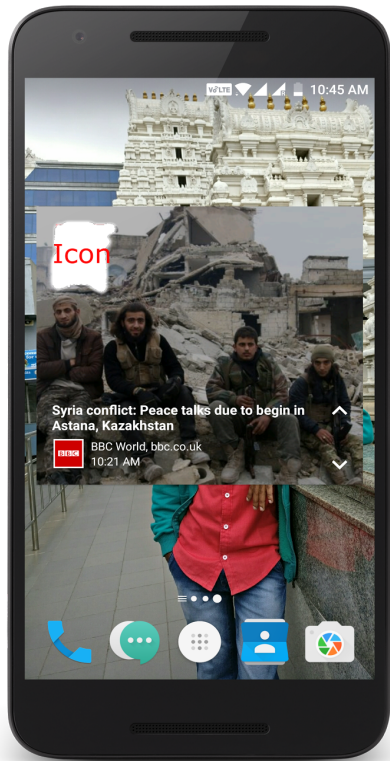
News list, this screen contains the headlines fetched from the api based on the source selected in homepage.

Screen 3



News detail page, this page contains details of the news with short description based on selected news in news list page.

Screen 4



News Widget page, this widget page will give the latest updates of technologies based on the user viewed in app or default shows the max 6 articles in the widget from the top sources.

Key Considerations

How will your app handle data persistence?

Shared preferences to store basic user preferences like, country, language.

Sql Database to store notifications

Describe any corner cases in the UX.

NewsDetail screen will be swipeable . swipe right to read next article and left to previous article.

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

Glide - loading and caching of images

RxJava - Asynchronous programming

Retrofit - Network api calls

Describe how you will implement Google Play Services.

Planning to use below firebase concepts

- Authentication
-
- Dynamic links
-
- Crash Reporting
-
- Analytics
-
- Notifications
-
- App Indexing
-
- Adwords

So, i need to use play services to integrate above features.

Next Steps: Required Tasks

Using open source platform <https://newsapi.org/> for fetching sources and their headlines

Task 1: Project Setup

Create Android Studio Project with Mobile and Wear Modules

Task 2: Implement UI for Each Activity and Fragment

1. Build UI for Splash Screen

2. Build UI for Intro Screen
3. Build UI for Welcome screen and Login
4. Build UI for Home Screen that shows all the Sources
5. Build UI for the screen to display news articles/headlines for particular source selected in Home screen
6. Build UI for News Detail screen that display article and share UI
7. Build UI for Settings screen
8. Build UI for About us to describe the libraries usage, copyright and content related info

Task 3: Implementing, Network Api, Service, Models

Using Retrofit and RxJava going to be fetching data from Newspaper Api and presenting to the client

- Create Retrofit service and client classes
- Creating necessary model (Pojo) classes
- Implement needed methods to fetch sources, news articles..etc
- Integrating with UI

Task 4: Integrating Widget and Content Providers

Building the app by providing good features like,

- WIDGET to see the latest updates
- Content Providers to provide locally stored data to other apps.

Task 5: Integrating firebase for DEVELOP

Build better apps and Save crucial development time and ship a high-quality, bug-free app.

- Integrating Google login using firebase Authentication
- Integrating Crash reporting to make app stable

Task 6: Integrating firebase for GROW & EARN

Acquire and engage the right users at the right time. Take the guesswork out of growth.

- Remote Config to enable some features needed or not
- Implement App Indexing to make news search more flexible (Once visited news article will be indexed and later search will show the article in app Google search)
- Implementing Dynamic links and Deep links (Navigating user to specific article)
- Integrating AdMob to get revenue

Task 7: Diff Flavours of the app

Configure gradle flavours for free/paid versions (with Ads and without ads)

Task 8: Integrating firebase for DEVELOP

- Writing Unit test cases
- Writing functions test cases using Espresso (Automation)

Task 9: Publishing to Google Play store

Finally, publish the app to playstore

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