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## News Express

### Description

No need to look for different apps for getting news from more than one source. News Express gives you most recent and popular headlines from more than 70 worldwide sources including BBC News, CNBC, ESPN, Fortune, National Geographic, TechCrunch and many more.

### Intended User

News Express is intended for all users wanting to get the current happenings in the world.

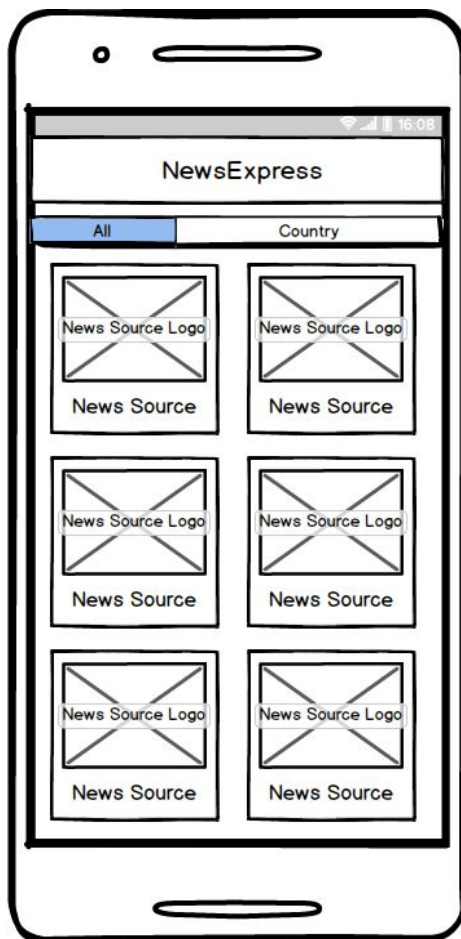
## Features

- Read news from major news sources across the world.
- Get popular and most recent headlines.
- Read full article from original source.
- Filter news sources based on your current location (your country).
- News Express provides widget to not miss headlines from your chosen news source.

## User Interface Mocks

Created using Balsamiq Mockups

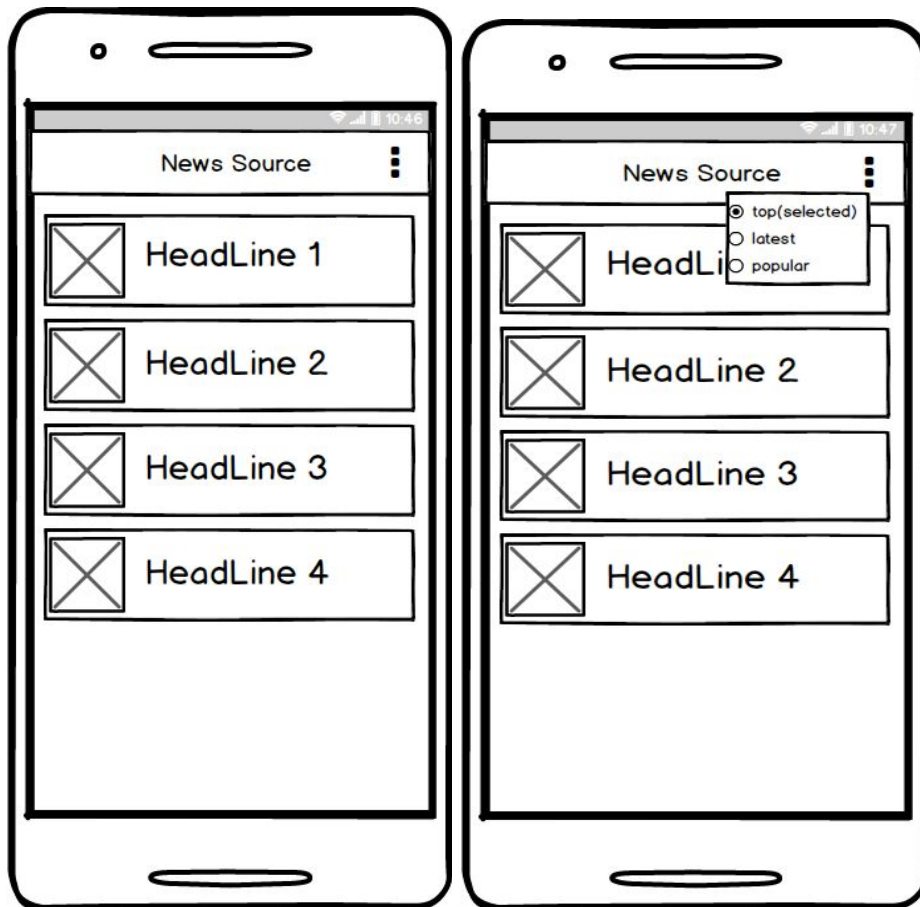
### Screen 1



Main Activity UI:

- Contains tabbed layout with tabs : All (All news) and Country(Location based news)
- CardView containing news source logo and news source.
- Grid Layout for all cards.

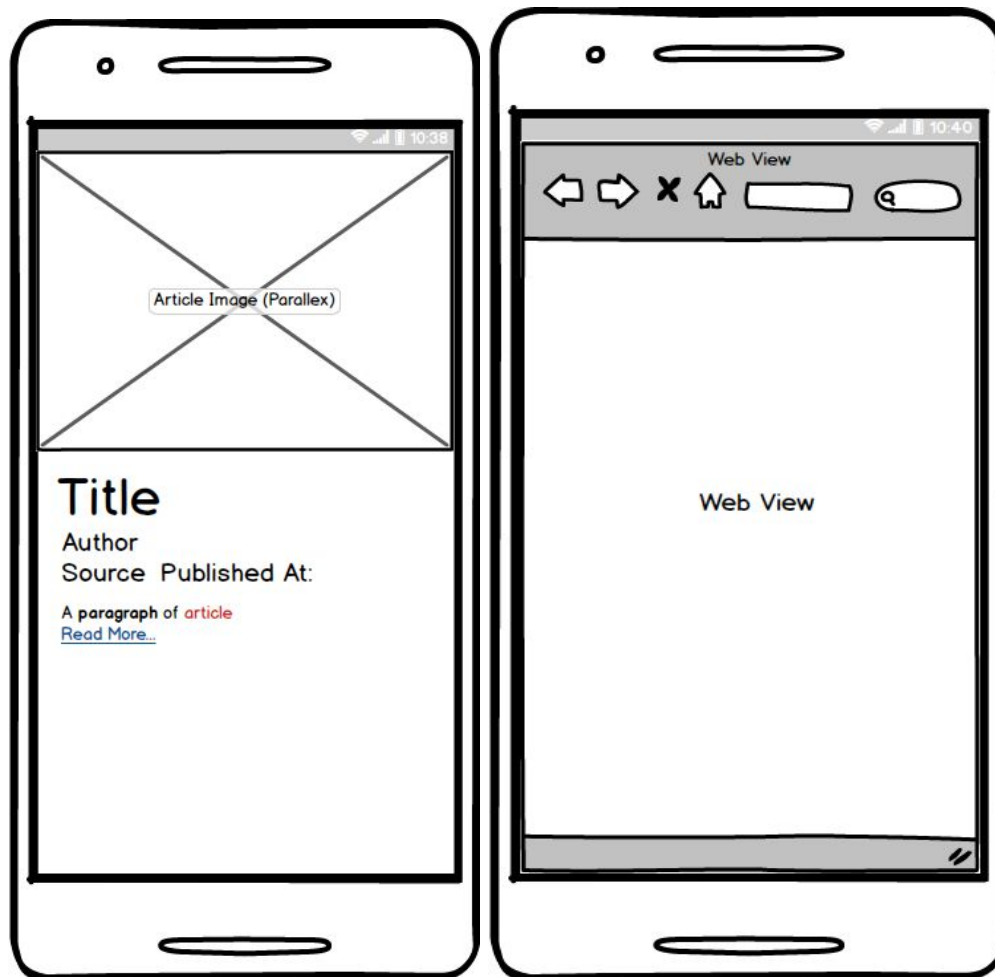
## Screen 2



### Article List UI :

- ListView for articles from chosen news source.
- CardView contains article image and title.
- Menu contains top, recent or popular for sorting.

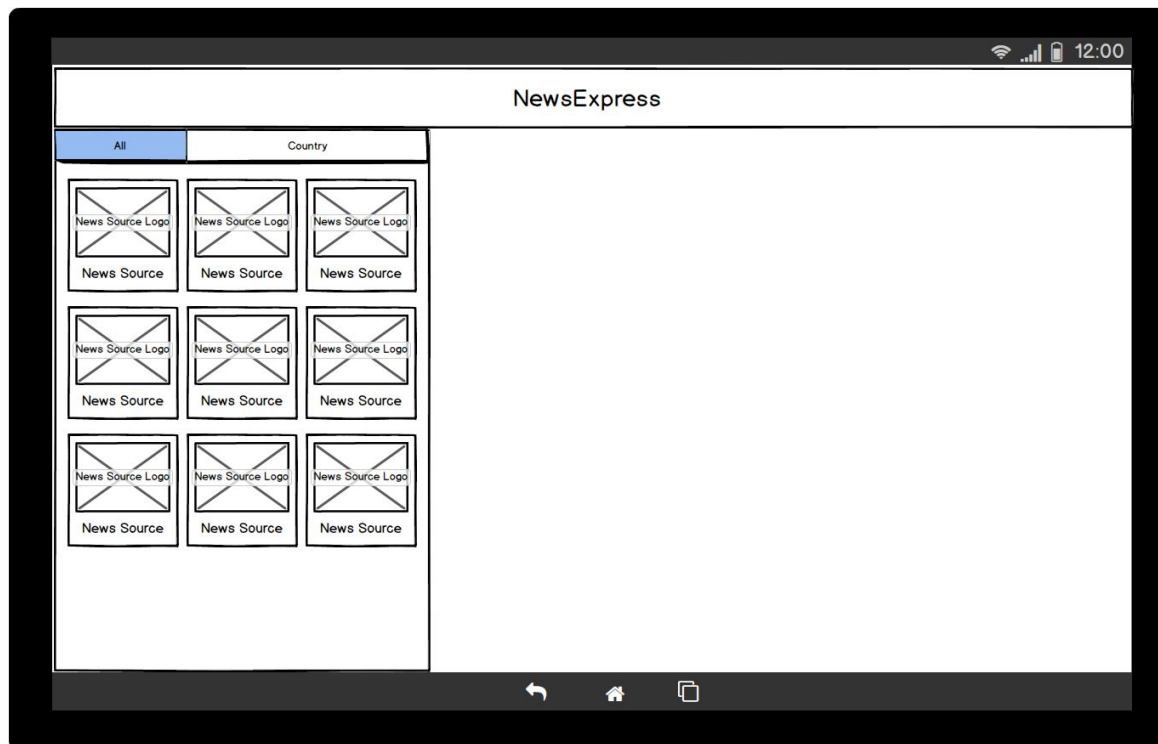
### Screen 3



Detail Activity UI :

- Image of article on the top and has parallax scrolling effect.
- Title of article, author, source and published time displayed.
- Short description of the article with link to original article.
- Link opens in a webview.

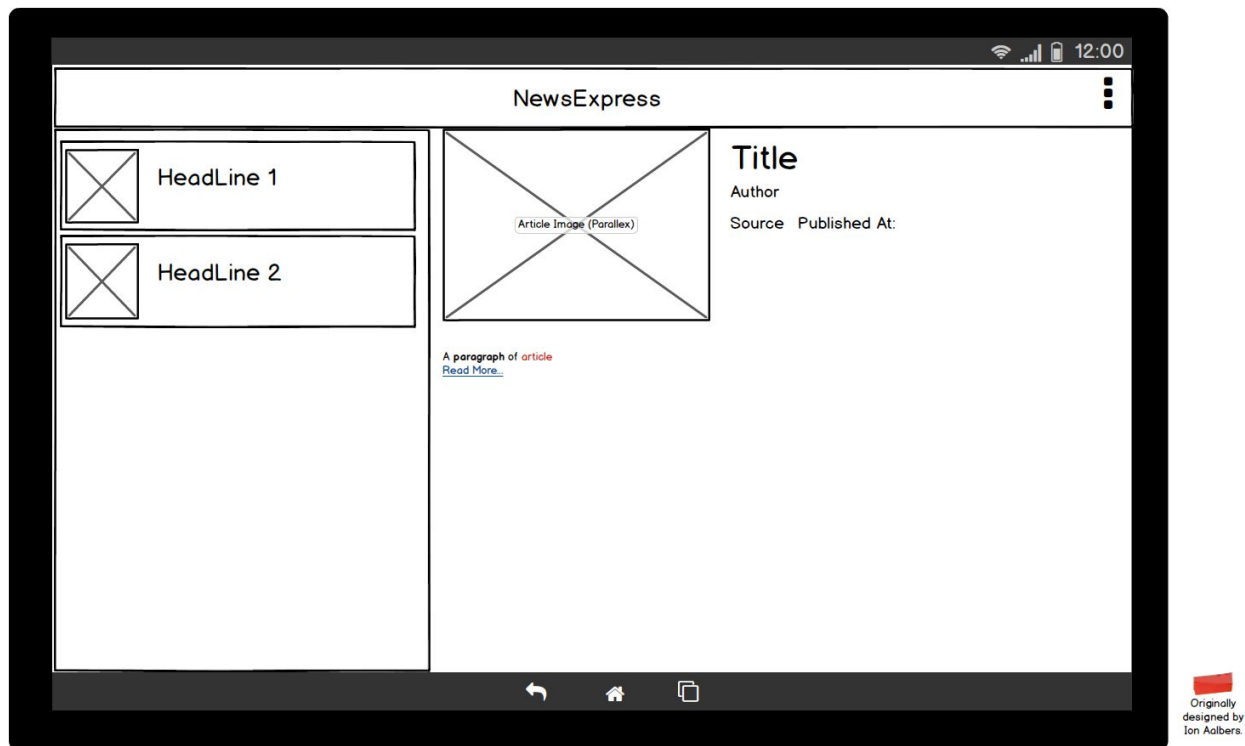
## Tablet Screen 1



### MainActivity UI :

- Tablet UI in two panes.
- First pane contains the news source in grid.
- News source as card containing logo and name.
- Tabbed layout with tabs : All and Country

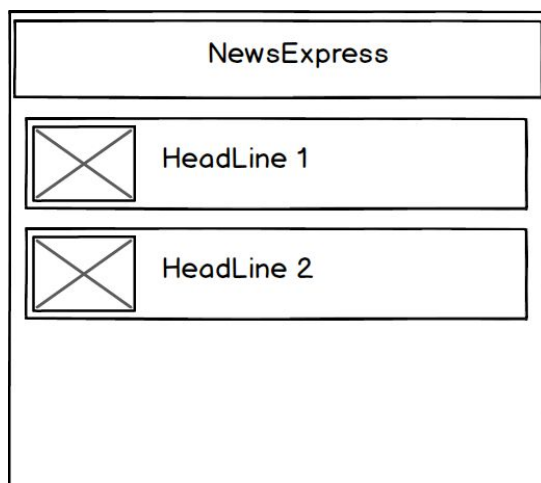
## Tablet Screen 2



### Detail Activity UI :

- First pane contains the list of articles from chosen news source.
- Second pane contains the details of the article including the image, title, author, source, publish time and short description.
- Menu contains top, recent or popular for sorting.

### Widget



### Widget UI :

- ListView for articles from chosen news source.

## Key Considerations

How will your app handle data persistence?

By building a content provider.

Describe any corner cases in the UX.

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

- Picasso to handle the loading and caching of images.
- News API by newsapi.org for fetching the news data.

Describe how you will implement Google Play Services.

- AdMob : Display ads in app.
- Location : Filter news sources based on the location of the user.

## Next Steps: Required Tasks

### Task 1: Project Setup

- Create new project in Android Studio
- Configure libraries
  - Import picasso in build.gradle

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

- Build UI for MainActivity
- Build UI for Article List
- Build UI for Detail Activity
- Set up WebView

### Task 3: Data Persistence

- Implement AsyncTask to pull data from News API
- Setup utility class for fetching and parsing data from News API
- Create database tables
- Setup SQLiteDatabase
  - Contract
  - Helper
  - Provider
- Implement loaders and adaptors.

#### **Task 4: Implement Google Play Services**

- Location
- AdMob

#### **Task 5: Tablet UI**

- Layout for tablet
- MainActivity, ArticleList, Detail Activity UI

#### **Task 6: Others**

- Widget
- Create signed APK