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AggregNews

Description

Just as the name implies, the AggregNews app is designed in such a way so that you can quickly read all the latest headlines from around the world. News categories are displayed as tabs at the top of the screen, giving you the option to swipe through them one by one, or jump straight to the any section with a tap.
The news here is curated from newsapi.org, giving a well-rounded view on the day's events. It has an exciting feature that you can also bookmark any news for offline reading and share it with anyone.
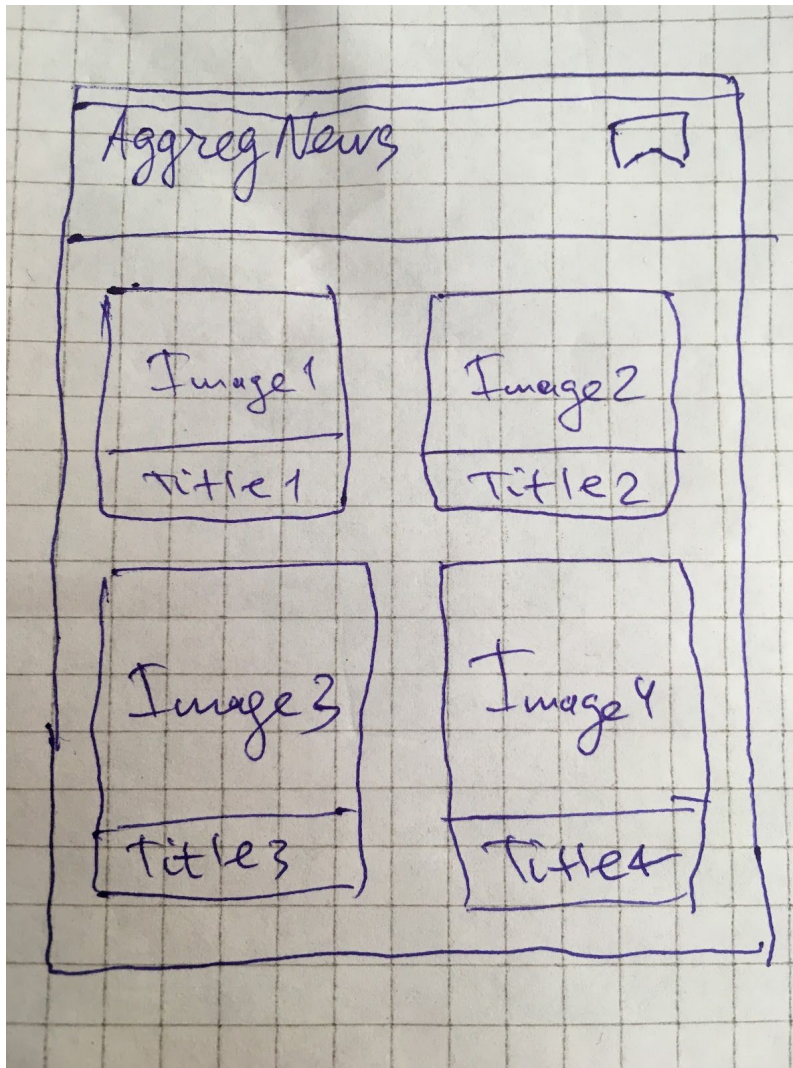It's a one-stop shop for all your news needs.

Intended User

This app is for everyone who want to read news of any field like sports, business, entertainment, gaming, general, music, science and nature, technology.

Features

- Show all news as well as category-wise news.
- News available in other languages too.
- User can go to the source page of news.
- Bookmark any news.
- Share news.
- Show news in widget.
- App updates data in its cache at regular intervals using a SyncAdapter.
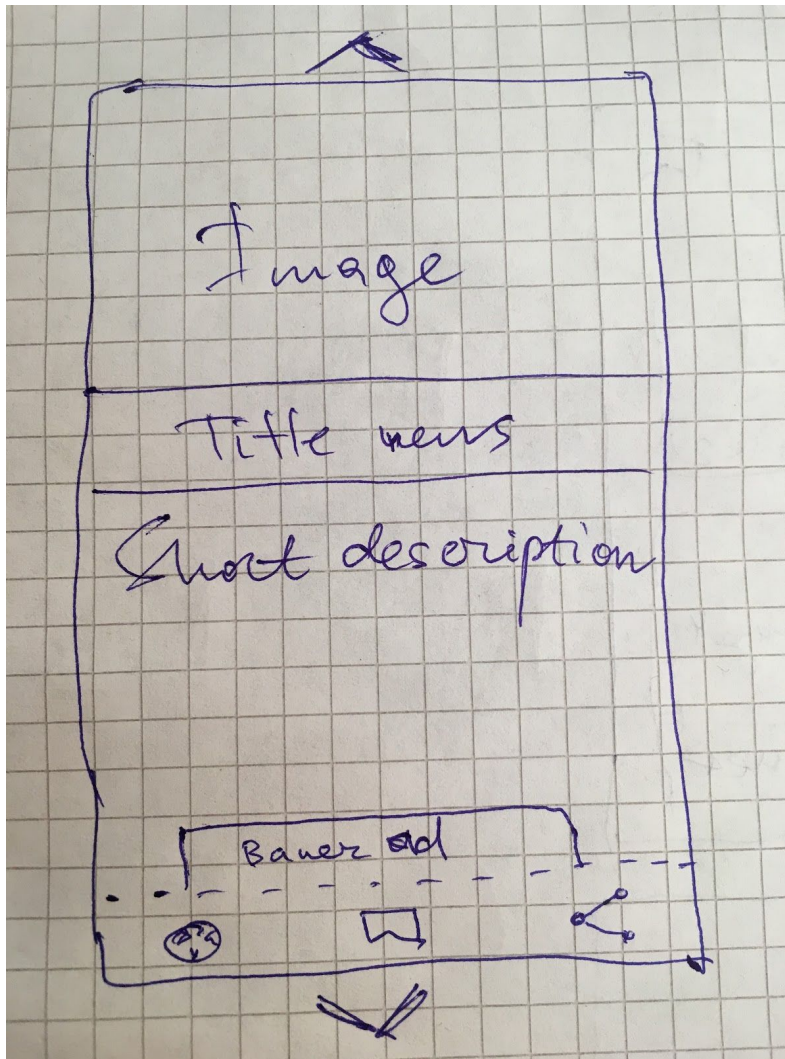
User Interface Mocks

Main Activity

It includes swipeable tab activity which includes news company with a grid of images and title for the news.

Details Activity

It includes a detail of news with a collapsing toolbar, description of the news and a read more button which opens a webview on click.

Key Considerations

How will your app handle data persistence?

App will handle data persistance by using content provider and store data in sqlite.

Describe any corner cases in the UX.

User can also view news by swipe up-to-down in detail activity.

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

I'll be use Glide for image loading as it is fast and make caches automatically, Volley for loading data from api as it is easy-to-use and fetch data asynchronously.

Describe how you will implement Google Play Services.

I'll be use Google Adwords to show ads. It will show interstitial ad between main and detail activity and a banner ad in detail activity. Also, Google Firebase for real time analytics. Google Location to get the location of user.

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: News Api Setup

- Login to newsapi.org to get a unique api key.
- Test with api key in your browser that it works or not.

Task 2: Project setup

- Update Android Studio to latest stable version
- Update SDK
- Copy & paste api key in strings.xml

Task 3: Implement UI for each activity and fragment

- Setup basic UI structure
- Add AppBar at top
- Add recycler view with grid layout
- Extract color from images using palette
- Transition between main and details activity

Task 4: Implement Content Provider and Notification

- Sqlite Database setup
- Loader/Adapter
- Notification

Task 5: Google Adwords

- Setup google adwords account layout
- Add firebase analytics
- Link adwords with firebase