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Top News

Description

Top News is a news application that helps the users stay updated with trending news from different famous sources like CNN and BBC News. The app allows users to explore news articles by sources . When the user clicks on an article, he can read it, share it and write a comment.

Intended User

The app is for anyone who wants to stay up to date with the latest news around the world, and who wants to have access to different popular news sources in a single app.

Features

- allows the user to login with email or gmail in the LogIn Activity
- allows the user to choose a news source from the navigation drawer
- displays a list of the latest news from the chosen source in the MainActivity
- When the user clicks on a news list item, he will be redirected to the Detail Activity to read the article
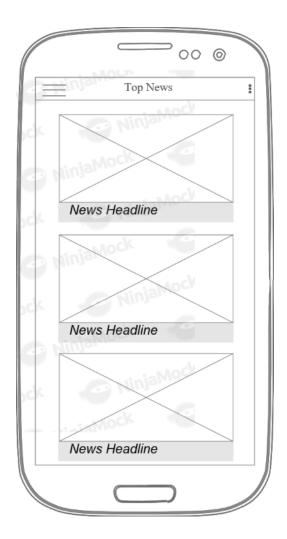- In the Detail Activity, the user can share the article
- In The Detail Activity, the user can write a comment and read other users comments
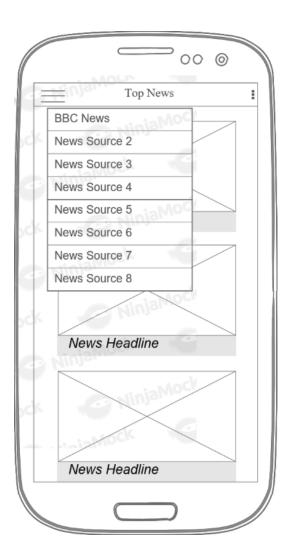- App has a home screen widget to display the chosen News Title

User Interface Mocks

Screen 1

The LogIn Activity allows the user to sign in with email or google.

Screen 2

The MainActivity displays latest headlines chosen from a news source. The default news source is the first source in the navigation drawer. The user can click on a headline to launch the Detail Activity.

Screen 3

The navigation drawer displays all possible news sources the user can read the news from.

Screen 4

The Detail Activity contains details about the clicked news and the possibility to read the full news on the web. It also contains a share button and the possibility to write a comment and read other users comments. From the settings, the user can choose the news title to the widget.

Screen 5

The Widget displays the chosen news title

Key Considerations

How will your app handle data persistence?

App uses Firebase Realtime Database to store users' Ids and comments.

Describe any edge or corner cases in the UX.

-The user can choose a news source from the navigation drawer to explore top headlines in the MainActivity.
-When the user clicks on a headline, the Detail Activity will be launched.
-When the user clicks on the widget, the Detail Activity of the chosen headline will be launched.

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

-Picasso (`version:2.5.2`) to display images from the web.
-Retrofit (`version:2.4.0`) to fetch JSON data from the NewsApi.org

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

-Firebase authentication: allow users to sign in with email or google
-Firebase messaging: allow users to write comments

Common project requirements

● App is written solely in the Java Programming Language
● App uses Android Studio version 3.4.2
● App uses Gradle version 3.4.2
● App includes support for accessibility including content description.
● App keeps all strings in a strings.xml file and all colors in a colors.xml file and enables RTL layout switching on all layouts.
● App uses an IntentService to implement the home screen widget

Next Steps: Required Tasks

Task 1: Project Setup

● Configure Libraries
● Create Model classes according to the JSON data fetched from the NewsApi and map JSON to java objects

Task 2: Implement Main Activity and Navigation Drawer

- ● Build UI for MainActivity
- ● Design layout for News items in the Main Activity
- ● Build layout for navigation drawer
- ● Design layout for navigation drawer items
- ● Create an Adapter to load list of news sources in the navigation drawer
- ● Implement navigation drawer item click so that clicking on a news source displays the corresponding list of news in the Main Activity

Task 3: Implement Detail Activity

- Create layout for Detail Activity
- Implement list item click in the Main Activity to launch Detail Activity
- Detail Activity displays corresponding image, text, author and time
- Implement FAB button to share the article

Task 4: Implement LogIn Activity

● Design Layout for LogIn Activity
● Implement LogIn Activity with Firebase authentication

Task 5: write and read comments

● Implement comment part with Firebase messaging
● Store and read comments with Firebase realtime database

Task 6: Implement homescreen widget

● Implement an addWidget option in the settings menu of the Detail Activity to allow the user
to add the news title to the widget
● Widget displays chosen news
● Click on the widget launches news article

Task 7: make the app material