

Project

Final report

Lee Hern Ping

CSCI 4237

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Class Activities and Homework

Summary:

<https://github.com/GWU-CSCI-4237-Spring-2023-classroom/project-1-hernpiblo/pull/2>

<https://github.com/GWU-CSCI-4237-Spring-2023-classroom/project-1-hernpiblo/pull/3>

<https://github.com/GWU-CSCI-4237-Spring-2023-classroom/project-1-hernpiblo/pull/4>

<https://github.com/GWU-CSCI-4237-Spring-2023-classroom/project-1-hernpiblo/pull/5>

Home Page

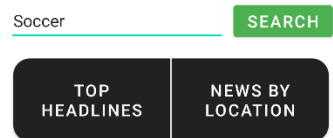
Home page contains an EditText and a search button for that edit text that only enables when the editText is not blank. There is also another button for the Top Headlines and News By Location. The search term is stored in a sharedPreferences for persistence. Upon clicking search, it will route to the Sources Page

Screenshots:

Search button disabled



Search button enabled

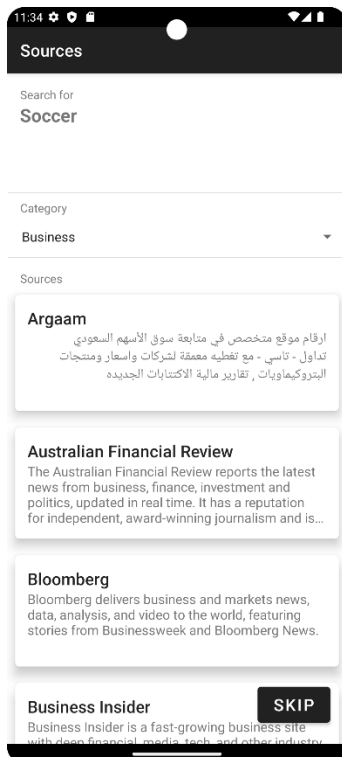


Sources Page

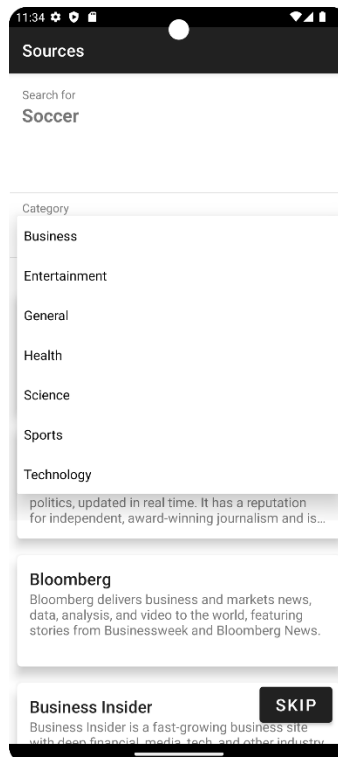
Sources page displays the previously searched term at the top, shows a spinner with the category and when clicked calls the API for the sources available for that category. There is also a skip button to allow users to view news from all sources. ProgressBar is used when sources are loading. Upon clicking the source or Skip, it will route to the Results Page.

Screenshots:

Sources page with search term



Spinner clicked

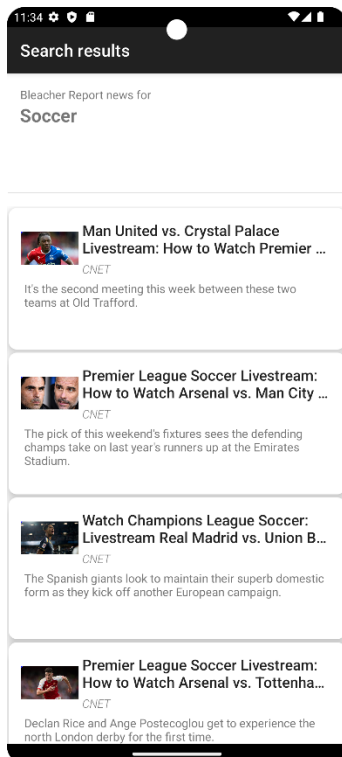


Results Page

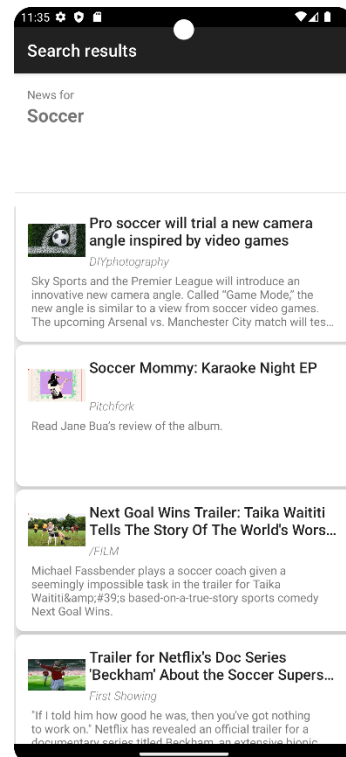
Results page still shows the search term and now indicates the source which the user has chosen and now calls the API to fetch the news for the search term and the source and when the article is clicked, the news opens up in the browser with a toast message. (there is still the issue with the NewsAPI returning news from sources other than the one I indicated)

Screenshots:

When Bleacher Report source is chosen



When skip button is clicked

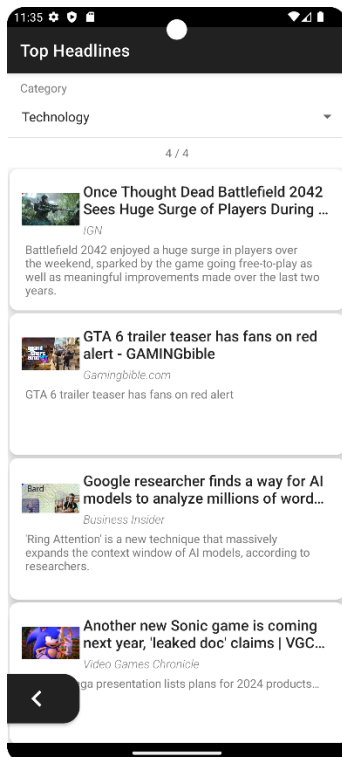


Top Headlines Page

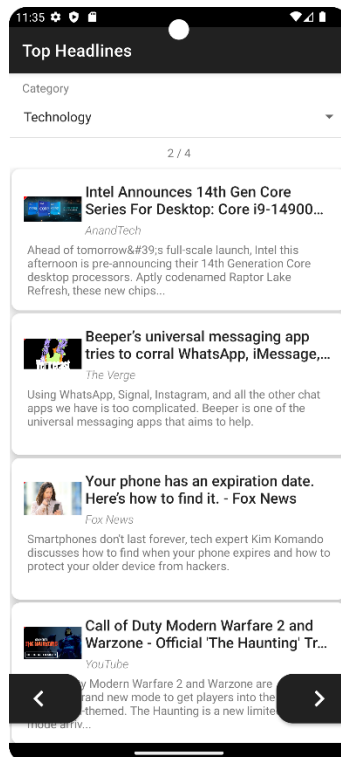
Top Headlines Page has a spinner to allow users to choose their category of top headlines. The category selected is stored in a sharedPreference for persistence. The articles are also paginated to 20 articles per page. The back/forward buttons are enabled/disabled based on the page number. ProgressBar is used when articles are loading. When the article is clicked, the news opens up in the browser with a toast message.

Screenshots:

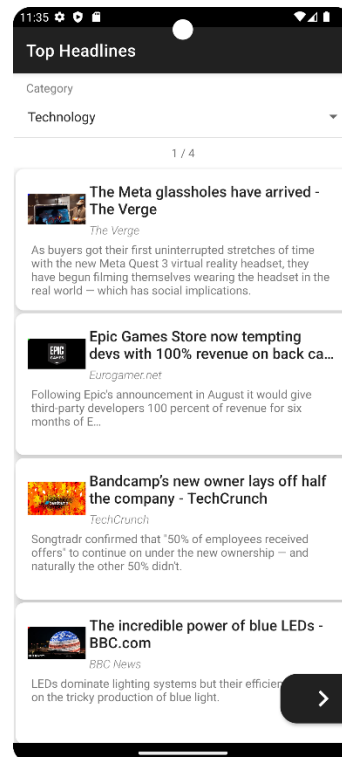
First page (back button disabled)



Second page



Last page (forward button disabled)



Maps Page

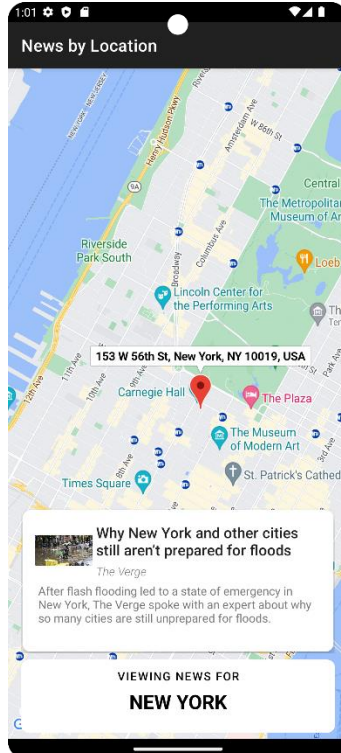
Maps page zooms to the location the user long clicks on and displays the address on the button and the map. When the user clicks the button to fetch the news, the button shows the user what query is being used for the API and the API is called to retrieve the articles. The query logic is to use Admin Area (State) if it is not null or else use the Country. If the long click position has no address, a popup dialog is shown to ask user to pick a new area. If the long click position has an address but no news, an error message is shown to the user to indicate there are no news. ProgressBar is used when articles are loading. When the article is clicked, the news opens up in the browser with a toast message. The position & map pin is stored in a sharedPreference for persistence.

Screenshots:

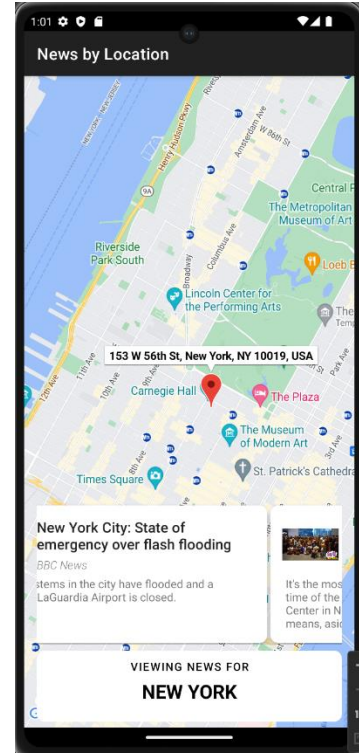
Long click on map



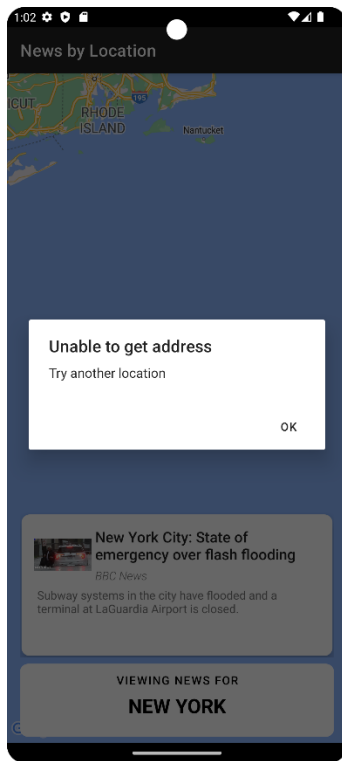
Button click with query displayed



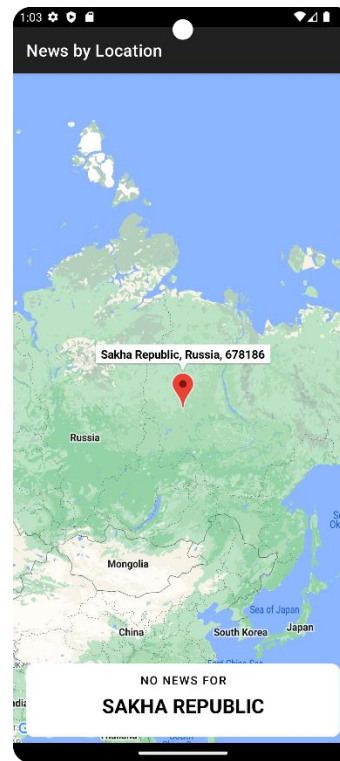
Scroll articles



Long click on location with no address



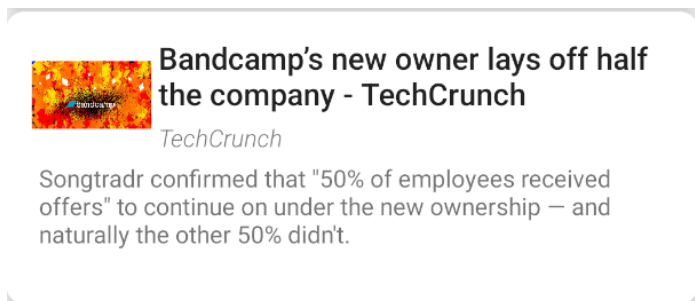
Addresses with no news



Article Card

Article card contains an image for the news thumbnail, a title, a source and a description. All news articles use the same article card layout.

Screenshot:



Challenges:

Many new things to self learn. Passing context through the activities and views were slightly difficult but for the most part, project was manageable.

Interesting Notes:

Did not manage to get the ideal look of my app but it is close.

Got to add some customization to the app compared to the reference in the video. (eg making a custom shape XML for my half rounded buttons)

Recommendations/Feedback

None