**Project code**

* <https://github.com/jason97729/final_project>

**Data sources**

* Bing Covid-19 API
  + Website: <https://bing.com/covid>
  + Data: <https://bing.com/covid/data>
  + Documentation: <https://www.programmableweb.com/api/bing-covid-19-data-rest-api-v10>
  + Format: json
  + I access the data through <https://bing.com/covid/data>
  + Summary of data:
    - More than 5000 records available
    - 51 records retrieved
    - State that report confirmed Covid-19 cases. The attributes are ‘totalConfirmed’ and ‘totalDeath’. Which represent the total confirmed covid-19 cases and total covid-19 deaths.
  + Cache file:

A screenshot of a computer

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* NY Times API
  + Website: <https://developer.nytimes.com/apis>
  + Documentation (Top Stories): <https://developer.nytimes.com/docs/top-stories-product/1/overview>
  + Format: json
  + I accessed that data through <https://api.nytimes.com/svc/topstories/v2/health.json> and my NY Times’ API key.
  + Summary of data:
    - 25 records available
    - 5 records retrieved
    - Information about the top stories in health category. The attributes are ‘title’ and ‘url’. Which represent the title and the url of the top stories.
  + Cache file:

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**Database**

* Database schema:

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* Foreign key-primary key relations:

In Counties table, it contains a foreign key (StateId) that point to the primary key (Id) in the States table.

* Screenshots showing some of the data in each of your tables:

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**Interaction and Presentation Plans**

* High-level, plain-English description of the user-facing capabilities of your project—what options does the user have for selecting and displaying data?

The user will see a table, bar graph, and map for the cases and deaths reported for each state in the United States. Also, the user has the option to click on the state and view a table, bar graph, and map for cases and death reported for each county.

* Interactive and presentation technologies you plan to use (e.g., Flask, Plotly, command line prompts)

I plan on using Flask and Plotly for the interactive data presentation.