**Project code**

* <https://github.com/jason97729/final_project>
* A README containing any special instructions for running your code (e.g., how to supply API keys) as well as a brief description of how to interact with your program.
* Python packages: Flask, requests, sqlite3, plotly

**Data sources**

* Bing Covid-19 API (It has become inaccessible; however, I was able to cache the data. I have uploaded the cache onto GitHub. Please download it from there.)
  + 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:

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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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* Level of challenge for data access (including access methods and number of records) is appropriate

**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.

* Brief instructions for how a user would interact with your program
* Level of challenge for interaction and presentation is appropriate

## Demo Link

## Demo Link: