

The SIMPsons – Eric Lam, Joseph Lee, David Lupea , Michael Zhang
SoftDev pd9
P#04 – Let The Data Speak
2020-04-28

CoronaView™

Description

Our project will be a visualization of the spread of COVID-19. We will incorporate our data into an interactable world map, providing a broad overview with the ability to obtain more data by clicking on a region.

Roles

David Lupea - Project Manager

- Enforcing Deadlines
- General Work

Eric Lam - Data Management

- Creating/Maintaining SQL Database
- Data Parsing

Joseph Lee - Backend

- D3 Visualizations
- Filtering Data

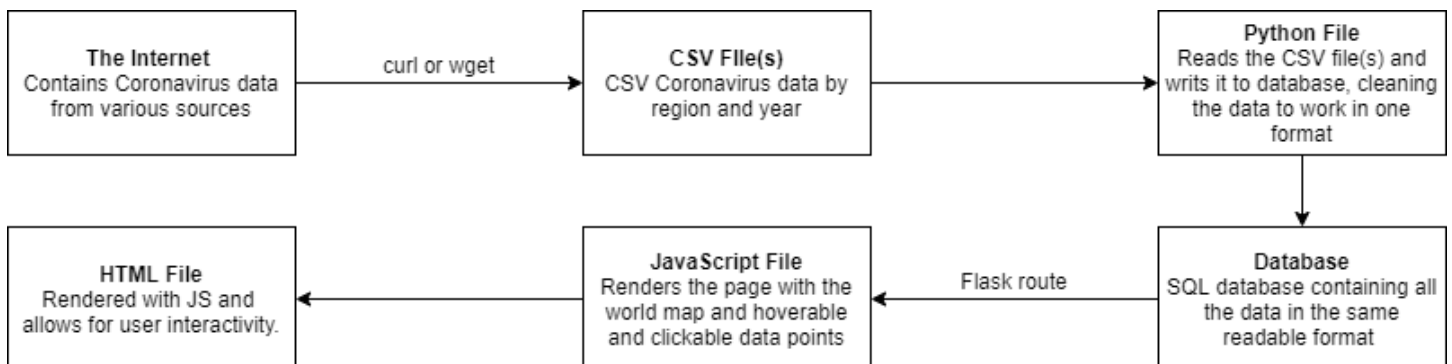
Michael Zhang - Frontend

- JS Interactability
- CSS Styling

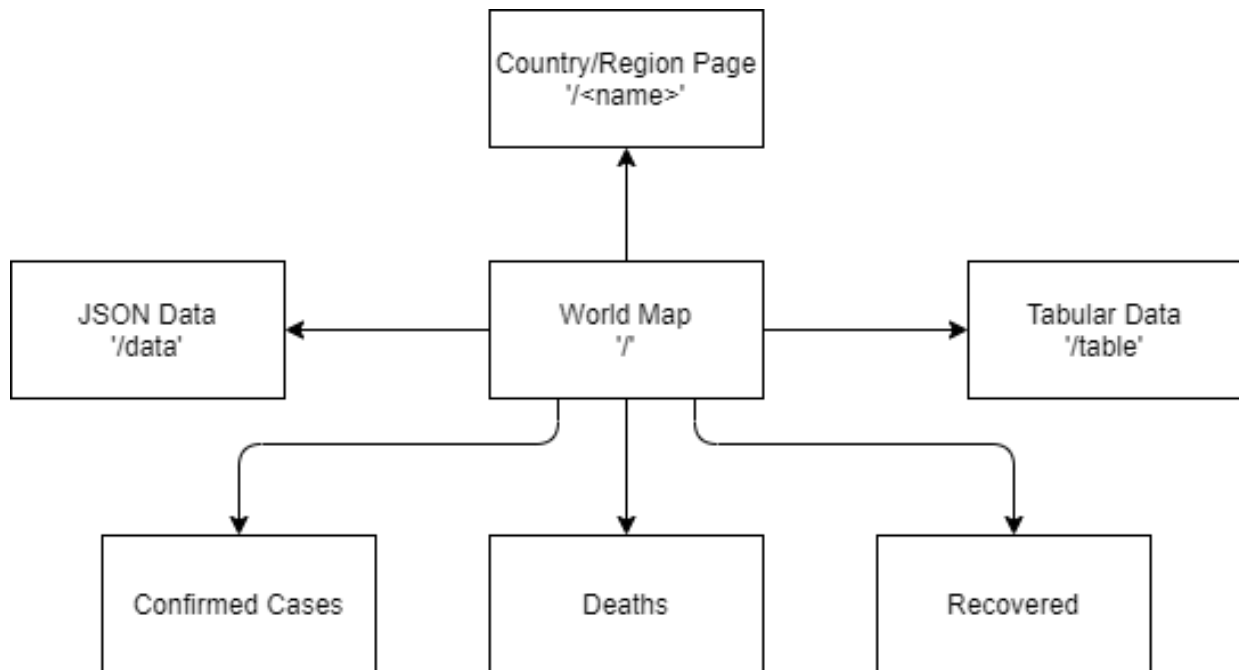
Framework: Bootstrap

We choose Bootstrap for its clean aesthetics and customizability. Additionally, our team is most comfortable utilizing Bootstrap, having multiple projects' worth of experience.

Component Map



Site Map



Database Schema

confirmed		deaths		recovered	
id	int	id	int	id	int
country_name	varchar	country_name	varchar	country_name	varchar
country_code	char(3)	country_code	char(3)	country_code	char(3)
<date>	int	<date>	int	<date>	int



Data Transfer

1. Python function named `get_data()` that retrieves and parses data
2. Flask route named `'/data'` that returns jsonified data from `get_data()`
3. `d3.json('/data')` to bring data to the front end

Project Timeline

Minimum Product (2020-04-30)

- World Map
- Animation of COVID-19 Progression
- Data on Hover

Complete Product (2020-05-04)

- Switch Between Cases, Deaths, Recovered
- Data in Table
- Region-specific Page

Extra Features (2020-05-11)

- Zoom In on Region when Clicked
- More Granular Data
- COVID-19 Economic Impact