

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

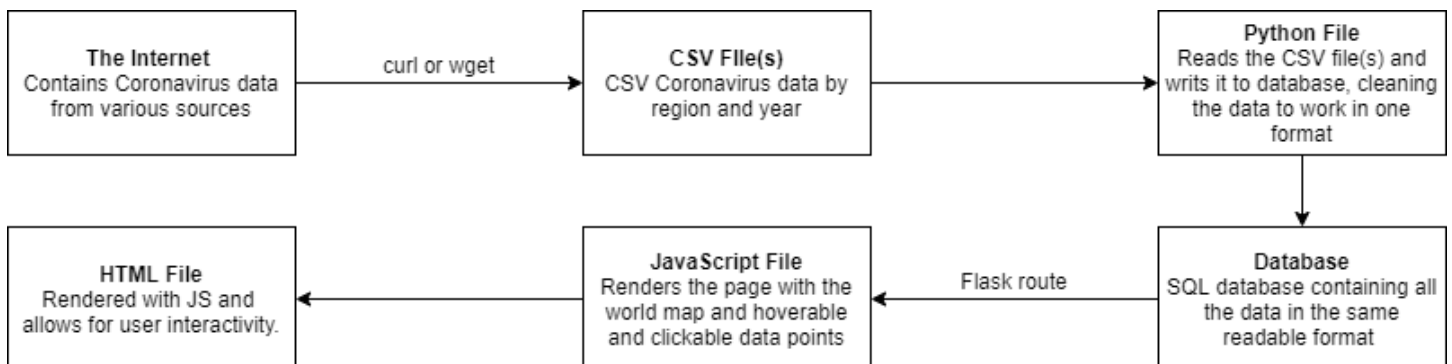
Michael Zhang - Frontend

- JS Interactability
- CSS Styling

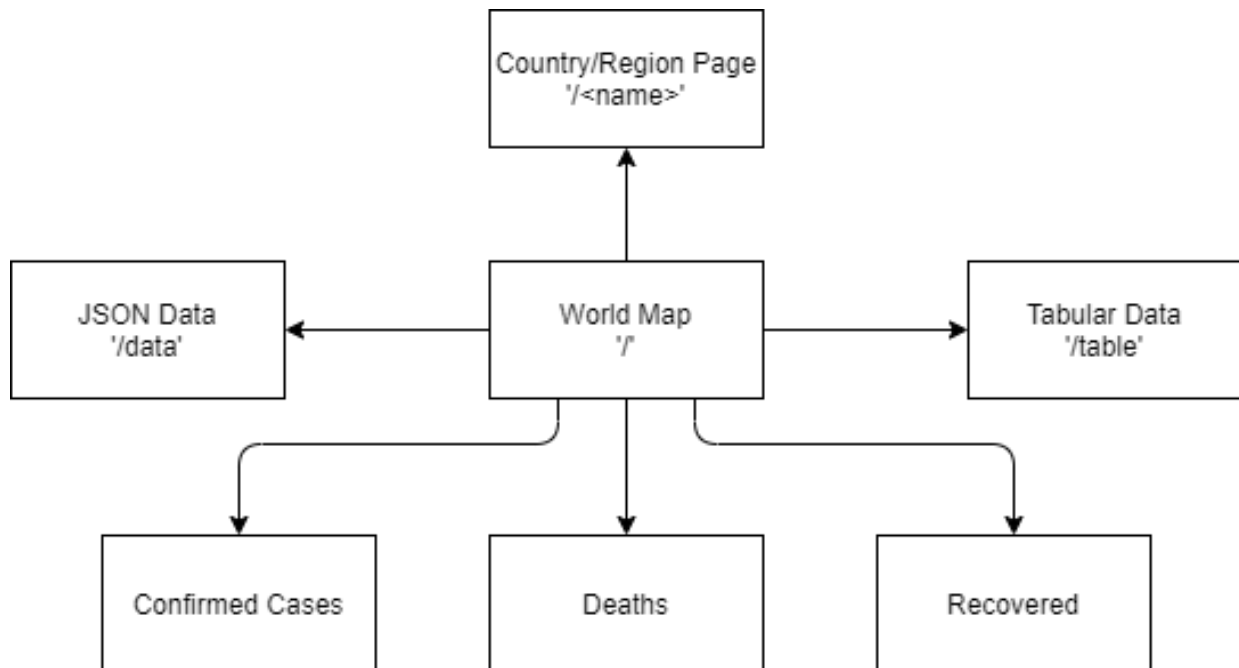
### Framework: Bootstrap

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 that retrieves and parses data
2. Flask route named `'/data'` that returns parsed data from method
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 (2020-05-06)

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