Team Name: Four C's
Roster: Brandon Chen, Justin Chen, Ethan Chen, Kenneth Chin
Title: TBA

Description

Our project will be focusing on COVID-19. We will visualize statistics like the number of cases, deaths, and cures in the US and other countries both individually and in proportion to total population. There will be graphs to track growth of the virus in multiple countries as well as the ability to compare them. We plan to create bar graphs, line graphs, and maybe even pie charts to represent these statistics.

Roles

Brandon Chen:

- Work on the **front-end** in creating some of the graphs and charts with D3 and CSS

Justin Chen:

- Work on the **front-end** in creating some of the graphs and charts with D3 and CSS

Ethan Chen:

- Handle the **front-end/back-end** with Python, HTML, and Flask

Kenneth Chin (PM):

- Handle the **front-end** with HTML, CSS, and Bootstrap

Timeline

5/1 - Rough version of website working
5/2 & 5/3 - Add more features to the site
5/6 - Get our graphs working and possibly add animations to them
5/8 - Work out any major bugs + beautify site
5/10 - Project presentable with only a few final touches left
5/11 - Due date

Sources

- https://ourworldindata.org/coronavirus-source-data?fbclid=IwAR21D3WJcRxZnkPtV30wHt5-iDi_OKCn3fDVRhVmQJ7GfQwjL-yZ-Rct-ns
- https://github.com/datasets/covid-19

Data functionalities

- Latest confirmed, death, and cured bar graph in US and other countries
- Percent of population infected in a country pie chart

- Growth of cases over time line graph for the US and other countries
- Compare statistics between countries with bar graph

Features

- navigation bar: We will have a navigation bar to allow the user to choose which graph to view
- graphs: each page will hold its specific graph of the number of cases, recovered, and deaths. We will use a combination of line and bar graphs.

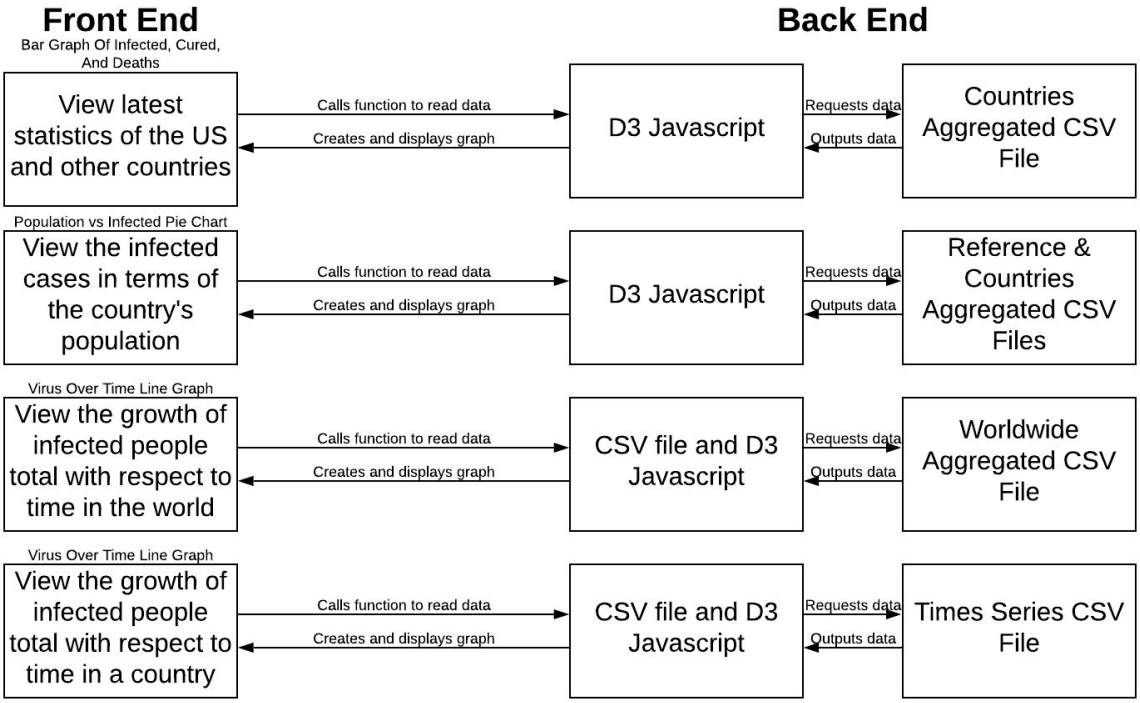
Pages

- index.html
    - Introduce our site and what it does
    - Shows a linear graph of the total worldwide population infected over time
- Countries.html
    - Showcases the statistics on the cases of a given country using three graphs:
        - Bar Graph Of Infected, Cured, And Deaths
        - Population vs Infected Pie Chart
        - Growth Of Virus Over Time Line Graph
- Compare.html
    - Shows the statistics on the cases of two given countries and compares their data on the same graph.

Bootstrap or foundation and why

Bootstrap because we're more familiar with it.

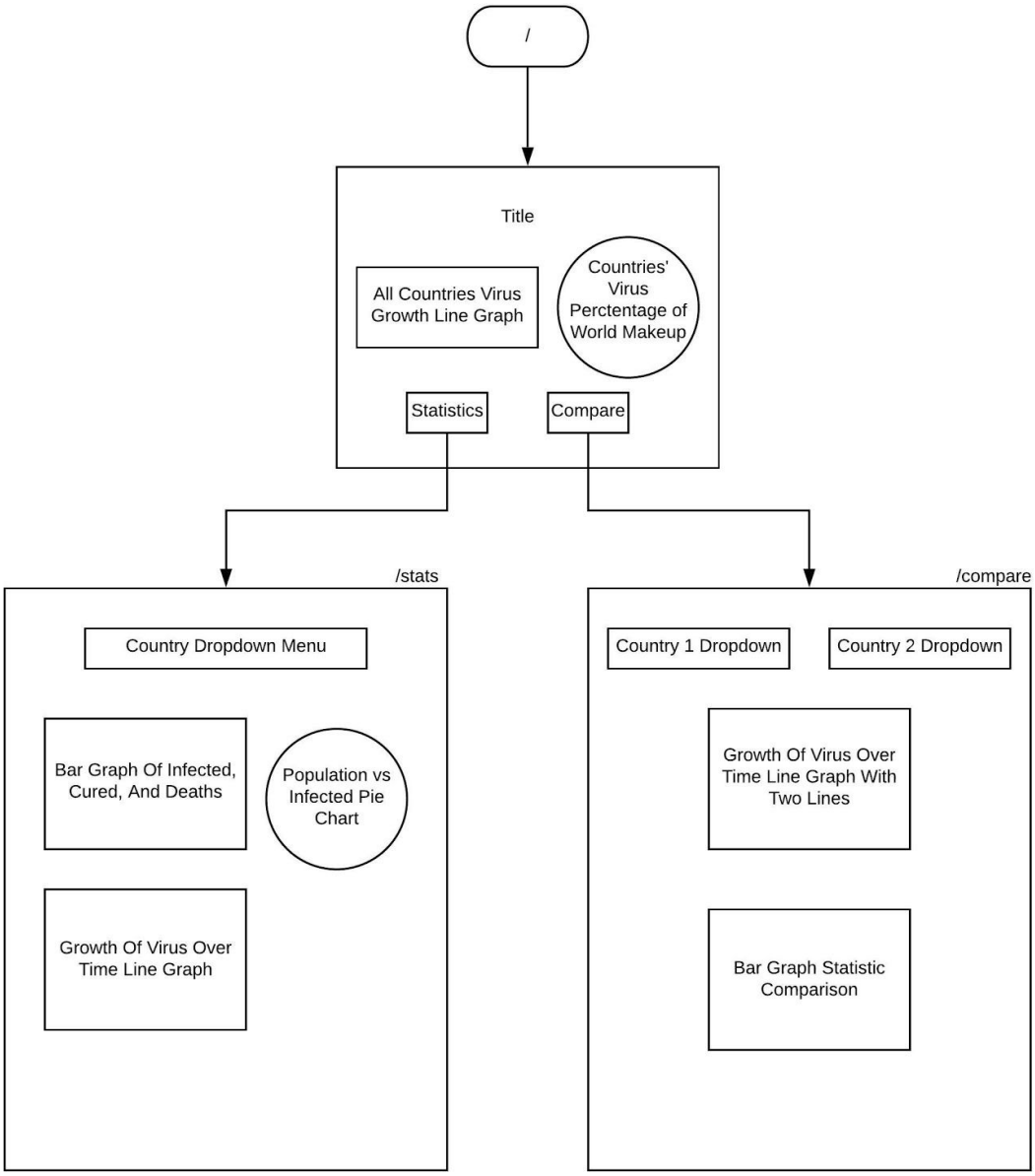
Component Map



Functions

- loadPopulation()
    - get the population data off the csv
- processData()
    - process and format data into something we can easily work with
- loadData()
    - get the proper data for a certain graph
- initGraph()
    - Initializes our graph with the proper data
- drawLine()
    - Animates the line graph

Sitemap


/
Title
All Countries Virus Growth Line Graph
Countries' Virus Perctentage of World Makeup
Statistics
Compare
/stats
Country Dropdown Menu
Bar Graph Of Infected, Cured, And Deaths
Population vs Infected Pie Chart
Growth Of Virus Over Time Line Graph
/compare
Country 1 Dropdown
Country 2 Dropdown
Growth Of Virus Over Time Line Graph With Two Lines
Bar Graph Statistic Comparison