Team Name: **DataPhiles**
Roster: **Jabir Chowdhury, Brian Lee, Tianrun Liu, Damian Wasliewicz**
Title: D3 Earthquake Visuals

Project Overview:

A website for visualizing data about earthquakes. Users will be able to interact with the data in order gain a higher level of understanding of the earthquakes.

Overview of Components:

- GeoData
    - Serves as the foundation of the world map. It contains the data of how to draw the countries and continents
- Earthquakes dataset
    - Provides all the information about earthquakes from the years 1600 through 2019. Includes data such as location in longitude and latitude, Magnitudes, and deaths.
- Javascript (front end)
    - Specifically, d3 will be used to create most of the visualizations including transitions, animations, and data interactions in conjunction with svg
    - Also somewhat does backend as it is used to extract data from our datasets using the built in d3 function
- Flask
    - Serves as the web server/delivery framework

Division of Labor:

Jabir Chowdhury
- Making sure design doc/ readme is updated,
- Keeping track of devlog
- Light coding, helping everyone with their code

Brian Lee
- Creating world map
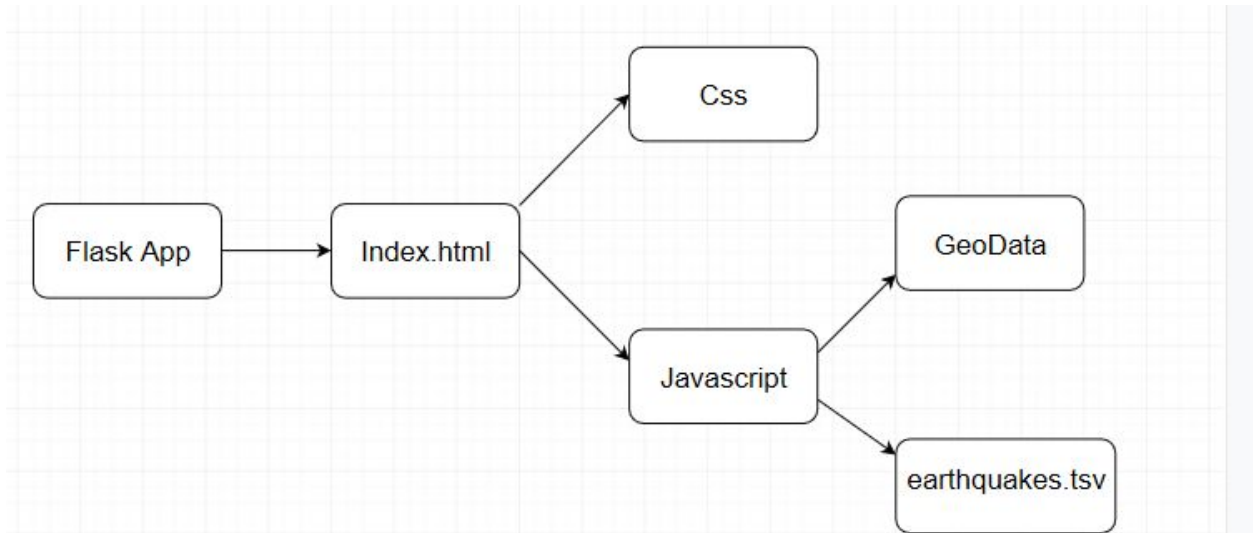- Projecting earthquake data points onto to the world map

Damian Wasilewicz
- Adding transitions to the map
- Incorporating other data about the earthquakes such as deaths and damages

Tianrun Liu

- Create Other graphs to show statistics for earthquakes by country

Component Map:

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                                    │   Css    │
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┌──────────┐      ┌────────────┐ ───────┘       ┌──────────┐
│ Flask App│ ───► │ Index.html │                │ GeoData  │
└──────────┘      └────────────┘ ───────┐       └──────────┘
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                                    ┌────────────┐ ───┘
                                    │ Javascript │
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                                            ┌────────────────┐
                                            │ earthquakes.tsv│
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Site Map:

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│   Sort by Year              Sort by magnitude      │
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│       │            SVG                    │         │
│       │         containing                │         │
│       │           World                   │         │
│       │           Map                     │         │
│       │                          Circles  │         │
│       │                         Represent │         │
│       │                         Earthquakes│        │
│       │                                   │         │
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