**Requirements**

1. Your visualization must include a Python Flask-powered API, HTML/CSS, JavaScript, and at least one database (SQL, MongoDB, SQLite, etc.).

2. Your project should fall into one of the below four tracks:

• A combination of web scraping and Leaflet or Plotly

• A dashboard page with multiple charts that update from the same data

• A “thick” server that performs multiple manipulations on data in a database prior to visualization (must be approved)

1. Your project should include at least one JS library that we did not cover.

2. Your project must be powered by a dataset with at least 100 records.

3. Your project must include some level of user-driven interaction, such as menus, dropdowns, and textboxes.

4. If possible, your final visualization should include at least three views.

**Tasks To Be Completed**

1. Pull the data from an API (Python/Flask) **(API => Json)**
2. Clean the data (Python/Pandas) **(Json => CSV)**
3. Organize the data into a database (Mongo/SQL) **(CSV => Normalized Database)**
4. Hosting the data in an API (Flask) **(Database => Json)**
5. Creating interactive dropdowns & tables (Java)
6. Filling them with data (D3) **(Json => Visualizations)**
7. Designing the website layout (CSS,HTML,Java) **(Visualizations => Site)**

**Roles**

1. 1-3 Mostly Simone and Caleb
2. 5-7 Mostly Matt and Kyle
3. 4-Mostly Matt