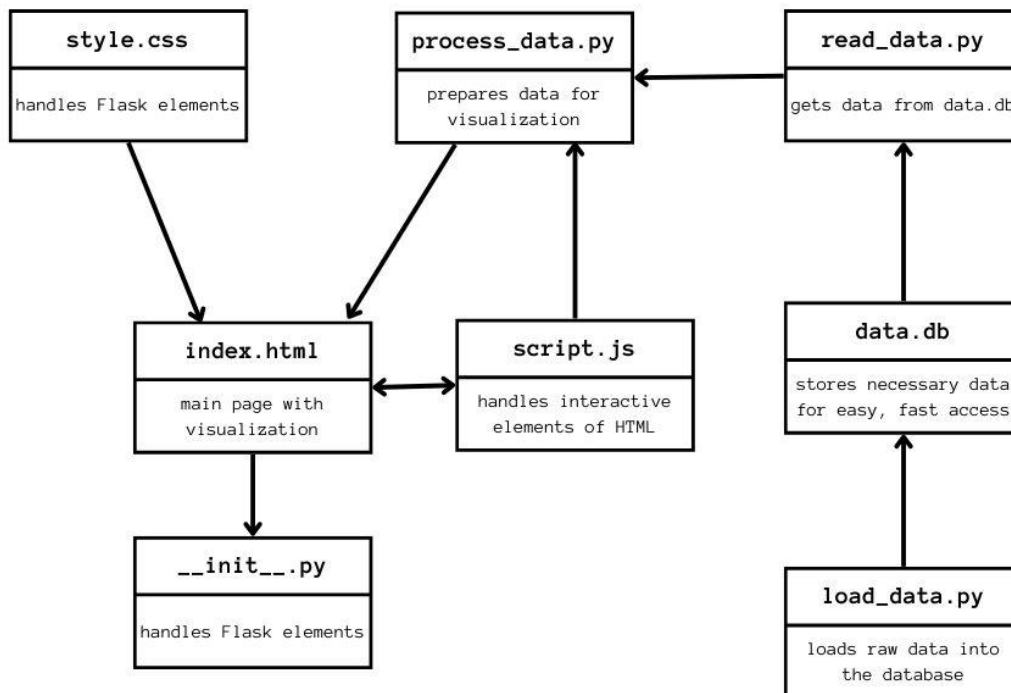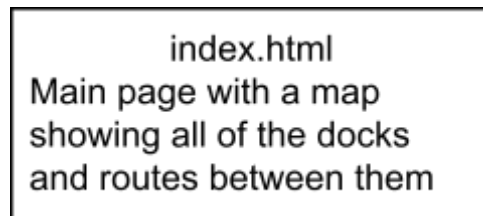**Target ship date: 2023-05-21**

design doc :: CitiBikes by PTSD

TNPG: PTSD; Roster: Maya Mori, Daniel Yentin, Joseph Jeon

Program Component Map:

Site Map:

There will be an interactive map of NYC showing CitiBike docks and routes between them. The user will be able to choose which rides to include using the controls below. Hovering over the routes will show the average time it took for cyclists to go from dock A to dock B.

Some controls:

- 2 sliders, one for the range of dates and another one for the hours in the day

    - ex: you can look at the map showing routes from 6 am to 9 am for every day in 2022 (morning commutes in 2022)

- Checkbox for the type of user (CitiBike member and/or not)

Database:

stations

station_name	latitude	longitude
name that the users see when they hover over the station		

trips

trip_duration	start_date	start_time	start_station _name	end_station_na me	is_member
In seconds	YYYY-MM-DD	hh:mm:ss			

FEF: We will use Bootstrap because you can use colors and defaults already built in, without using a lot of CSS compared to Foundation.

Tools from Ted Talks we will use:

- Shell scripting to download raw data

Roles:

Droplet - Maya

Flask - Maya

SQLite3, reading and loading data - Maya

FEF (Bootstrap) - Daniel

CSS - Daniel

HTML - Daniel

Map - Daniel/Joseph

APIs (OpenStreetMap API) - Joseph

JS - Joseph