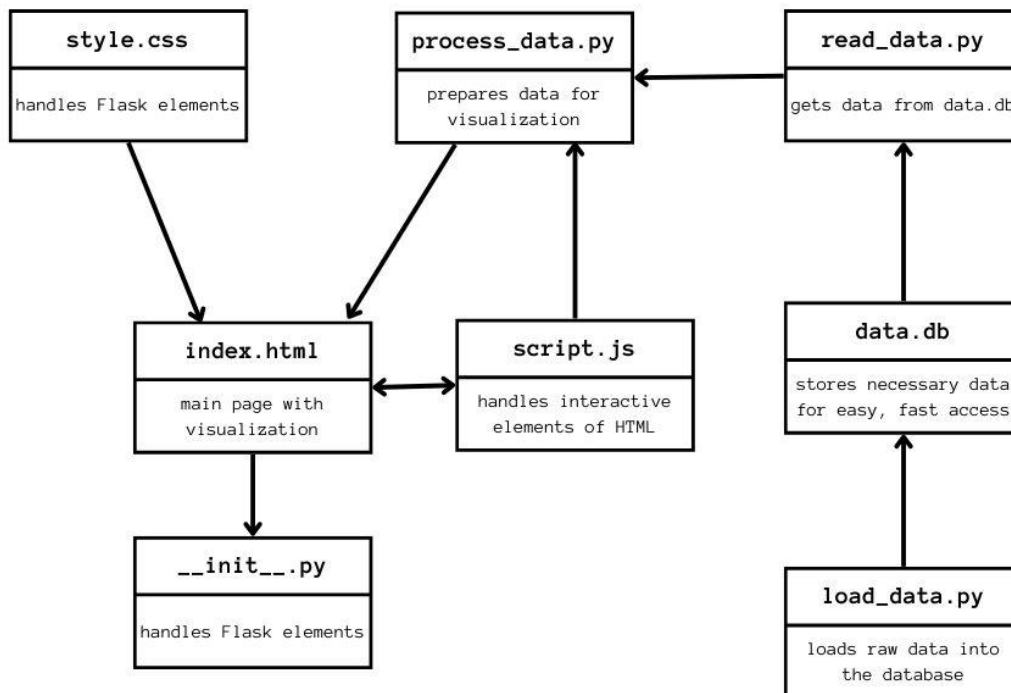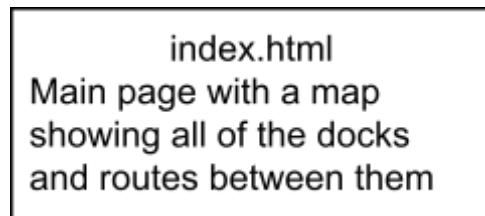**Target ship date: 2023-05-19**

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)

- Slider for the age of rider

Database:

stations

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

trips

trip_duration	start_date	start_time	start_station _id	end_station_id	is_member	age
In seconds	YYYY-MM-DD	hh:mm:ss				Age of rider

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 might use:

- Shell scripting to download 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 (with d3.js) - Joseph