



Target Ship Date: 5/24/2023

Squirrelz :: Aahan Mehta, Jeff Chen, Weichen Liu

P4 - Steam Data Visualization

Design Doc

05/24/2023

[git@github.com:aahanmehta/squirrelz.git](https://github.com/aahanmehta/squirrelz.git)

Ideas:

- ☒ ~~Squirrels overview~~
- ☒ ~~Comparing stats of steam games~~
- ☒ ~~Fruits datasets~~
- ☐ UFO sightings correlation with drunk people and car accidents

Dataset Links:

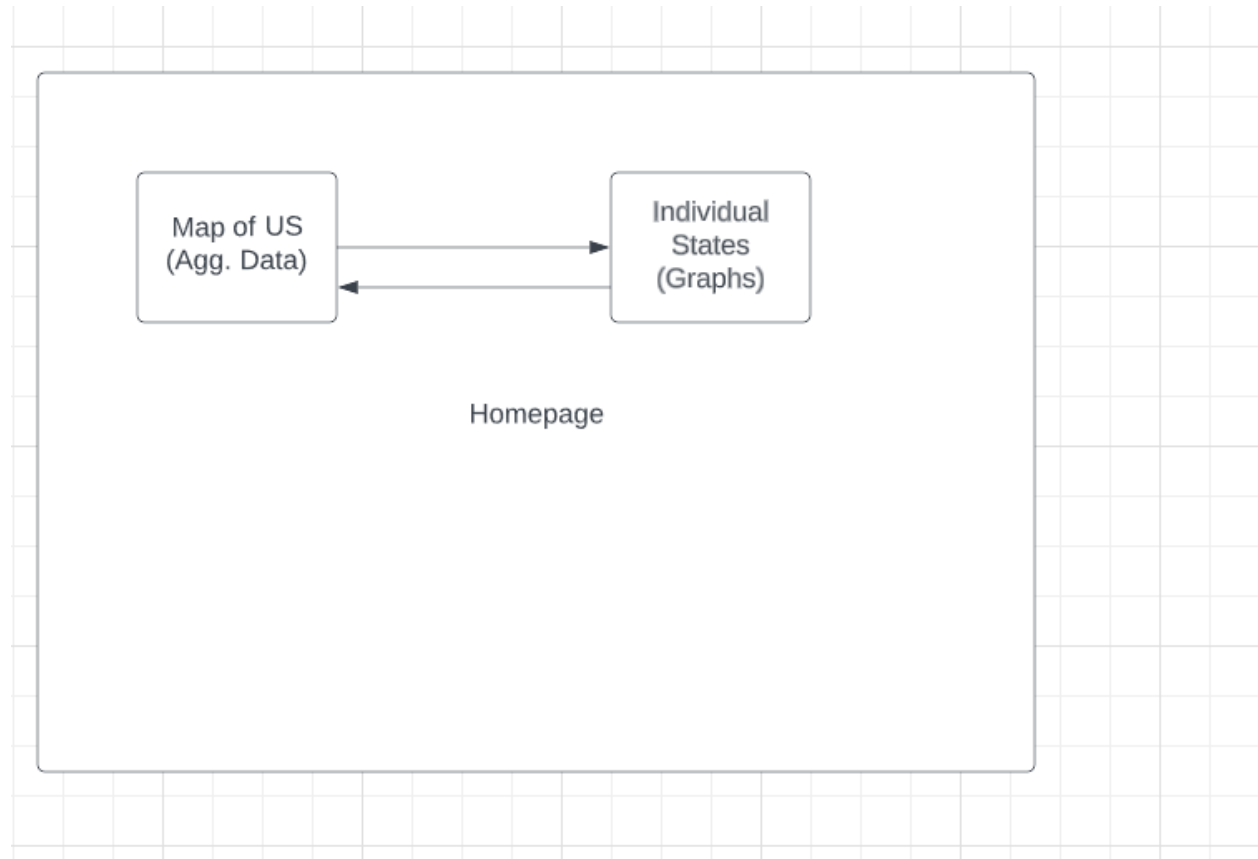
<https://www.kaggle.com/datasets/sobhanmoosavi/us-accidents>

<https://www.kaggle.com/datasets/linzey/alcohol-consumption-us>

<https://www.kaggle.com/datasets/NUFORC/ufo-sightings>

Website Layout:

New



Show the entire US with aggregate data.

Can click into state for state specifics

Program Components

1. Database (SQLITE3)
 - Hosts the data from the online databases we find. Place to retrieve data from.
2. Frontend
 - Display buttons user can click to interact with databases
 -
3. Flask, Javascript & Python
 - Render frontend pages
 - Retrieves information from database
 - Set up interactive buttons for the user to click
 - Have cool loading animation for each click ** maybe feature **

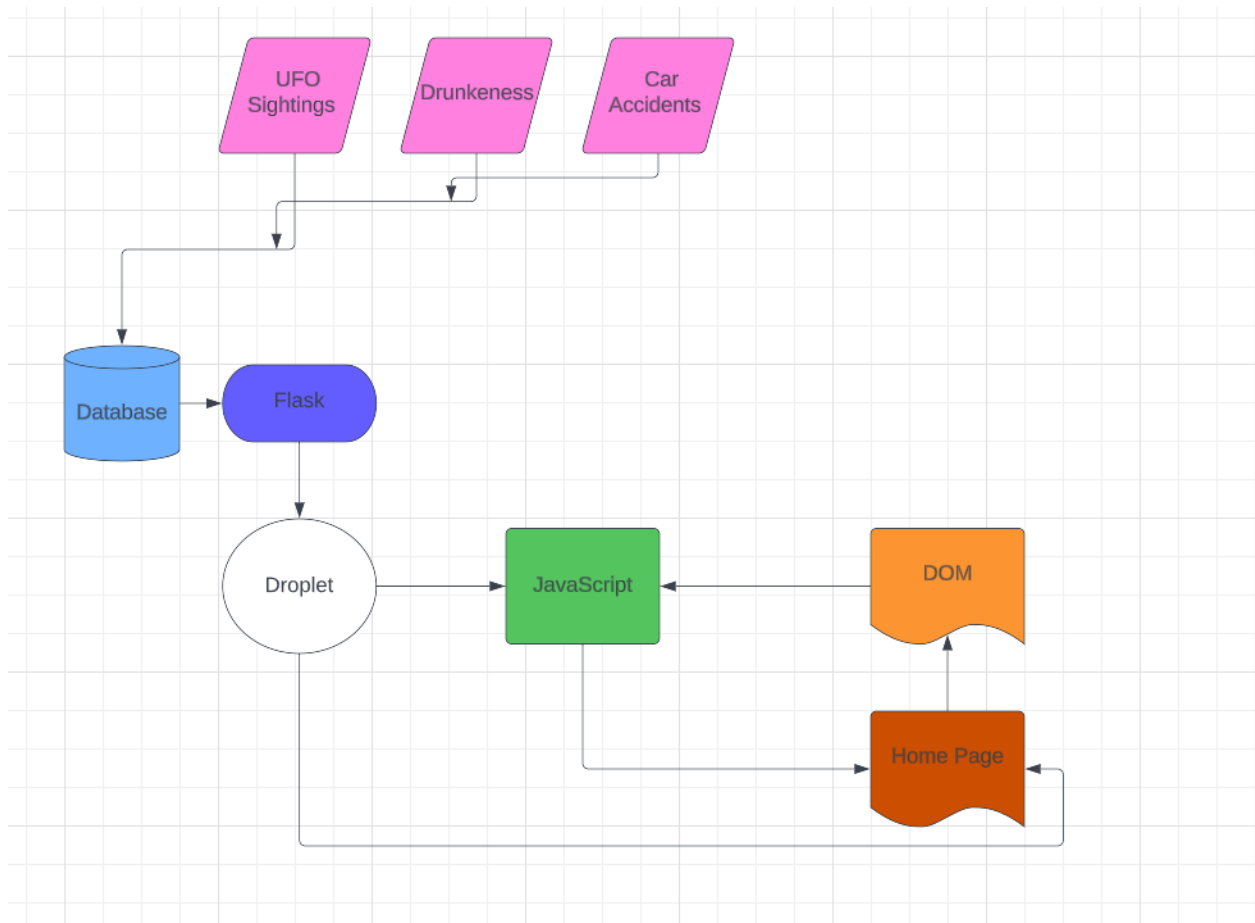
4. Bootstrap

- Style our site
- Using Bootstrap because we are more familiar with it, and appreciate it more.
- Using the container divs :)

5. Datasets

- Downloaded and taken from kaggle.com and will be placed into a db file for SQLite3 accessibility
- Data will be left on the Droplet

Component Map



Flask Site Map:

@app.route('homepage')

- Contains a image of the United States with clickable states

Database:

State	UFO Sightings (Ct)	Car Accidents (Ct)	Drunkenness (Avg)
Alabama			
Alaska			
...			

State	Car Accident Start Coord	Car Accident End Coord	Distance Affected	Severity
Alabama				
Alaska				

State	UFO Sighting Lat	UFO Sighting Long	Comments	Datetime

State	Year	Consumption per Capita

APIs:

Free and Clear

JS Libraries:

- Leaflet
- D3

Changes since Doc0

- We specified the database structure
- Program Components are more fleshed out, linkage between components made clear.
- Website layout now more streamlined

