Team peterPickledPeppers
SOFTDEV PD 2/9
P4 : LET THE DATA SPEAK

PROJECT WILDFIRE

Project Objective:

Displaying data about Wildfires/Global Temperatures/Other Climate-Related Measures to consider the correlations between increasing temperatures and the increasing incidence of natural disasters. Furthermore, we are looking at data about Oil/ Natural Gas Production and whether we can find any relationship between the locations of these places and the amount of wildfires/pollution levels in that area.

Roles:

Alex O - Project Manager -- Ensure that deadlines are met and that everybody is doing their job, work on front end development with Bootstrap

Connor Oh / Biraj Chowdhury - Work on data visualisation with D3 and make decisions on how best to display data, how to approach looking for correlations between our different datasets and connect the information they provide. Think about how to present our findings if any and how reliable our methodology was.

Manfred Tan - In charge of API usage and making the reach out page. Deals with the backend and interweaving the connection between the flask app and the html pages.

Timeline:

April 28th - Finish Design Doc.

April 29th - Revise Design Docs/ Think about how we want to try and connect our datasets/work on choosing exactly how to display our data.

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Begin Coding

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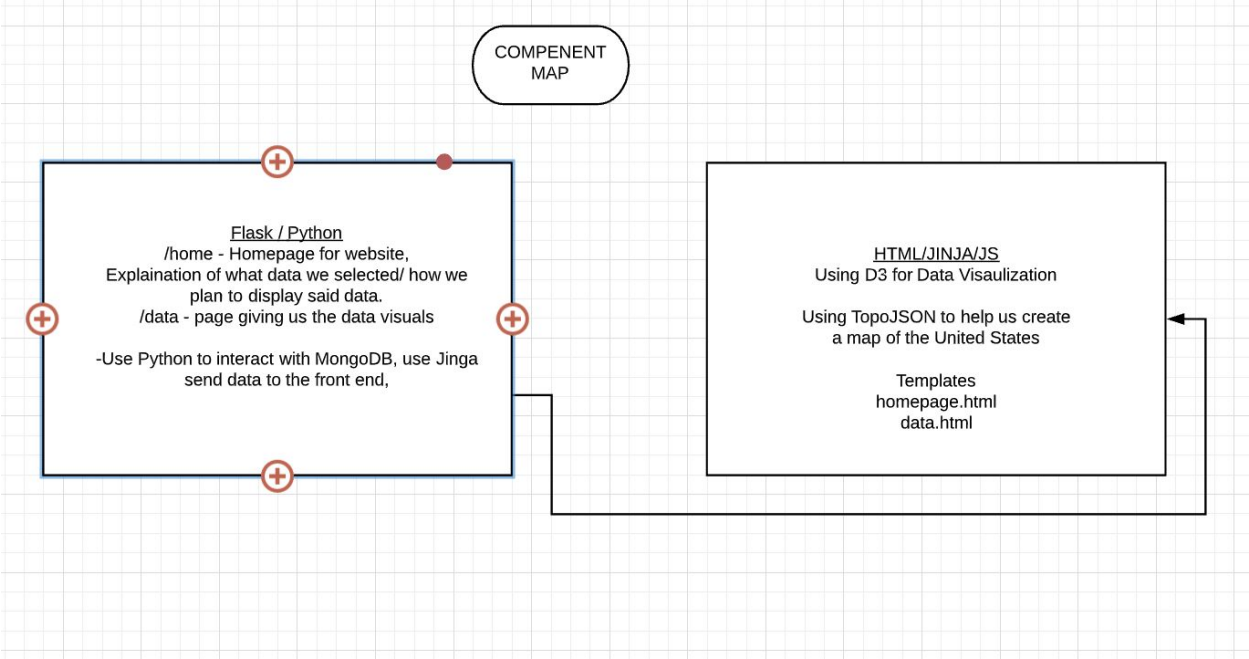
May 1st - Have basic framework of web app done, limited data visualisation, Alex and Manfred working on aesthetics and Front End, while Connor and Biraj continue to work on d3.

May 3-4th - Depending on the progress we've made, look into Continuous Integration and TravisCl and see whether it would be a good idea to incorporate it into our project.

May 10th - Completed Project ready to be submitted, last second tests to ensure there are no bugs, prepare for presentation.

Component Map



- Use Bootstrap as our front end framework
    - Reason: Everyone is most comfortable with bootstrap
- Use TopoJSON for map data
    - The map allows us to display locations via latitude and longitude
- HTML will be basic as most of the magic happens in the JS file and css
    - Jinja will be used to transfer data to JS file
- JS file will use d3 to represent data relating back to TopoJSON or bar graphs
- What is displayed will be determined by option buttons that show different data. These range from
    - Wildfires, Factories
    - Animate, Abort
    - Start, Stop
    - This will work with the d3
- For the map, there is a date selector from the bootstrap library
    - This will work with app.py and resend the data
    - Then we have switch page buttons that will work with app.py to change app.routes

Site Mao