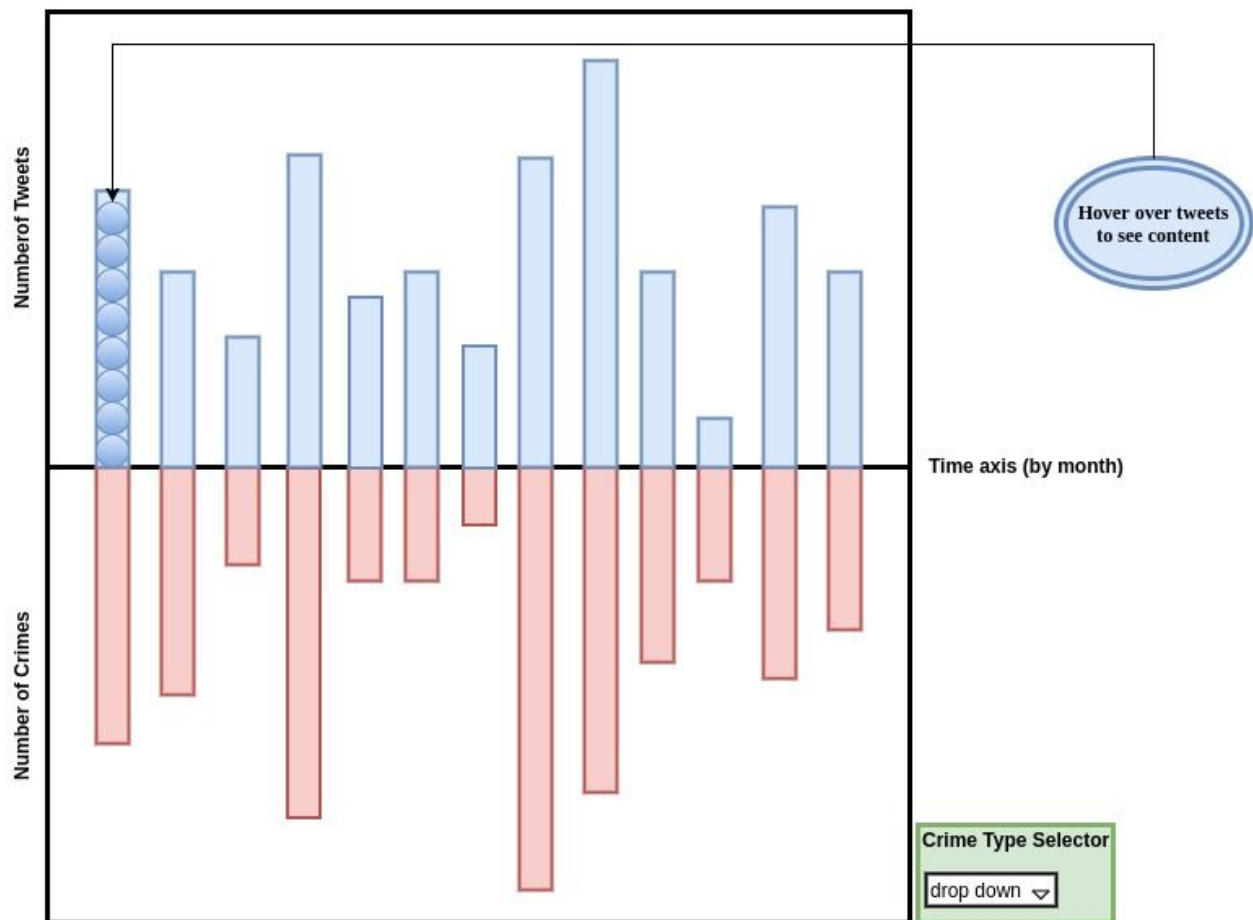# Donald Trump's Tweets Cause NYC Crime?
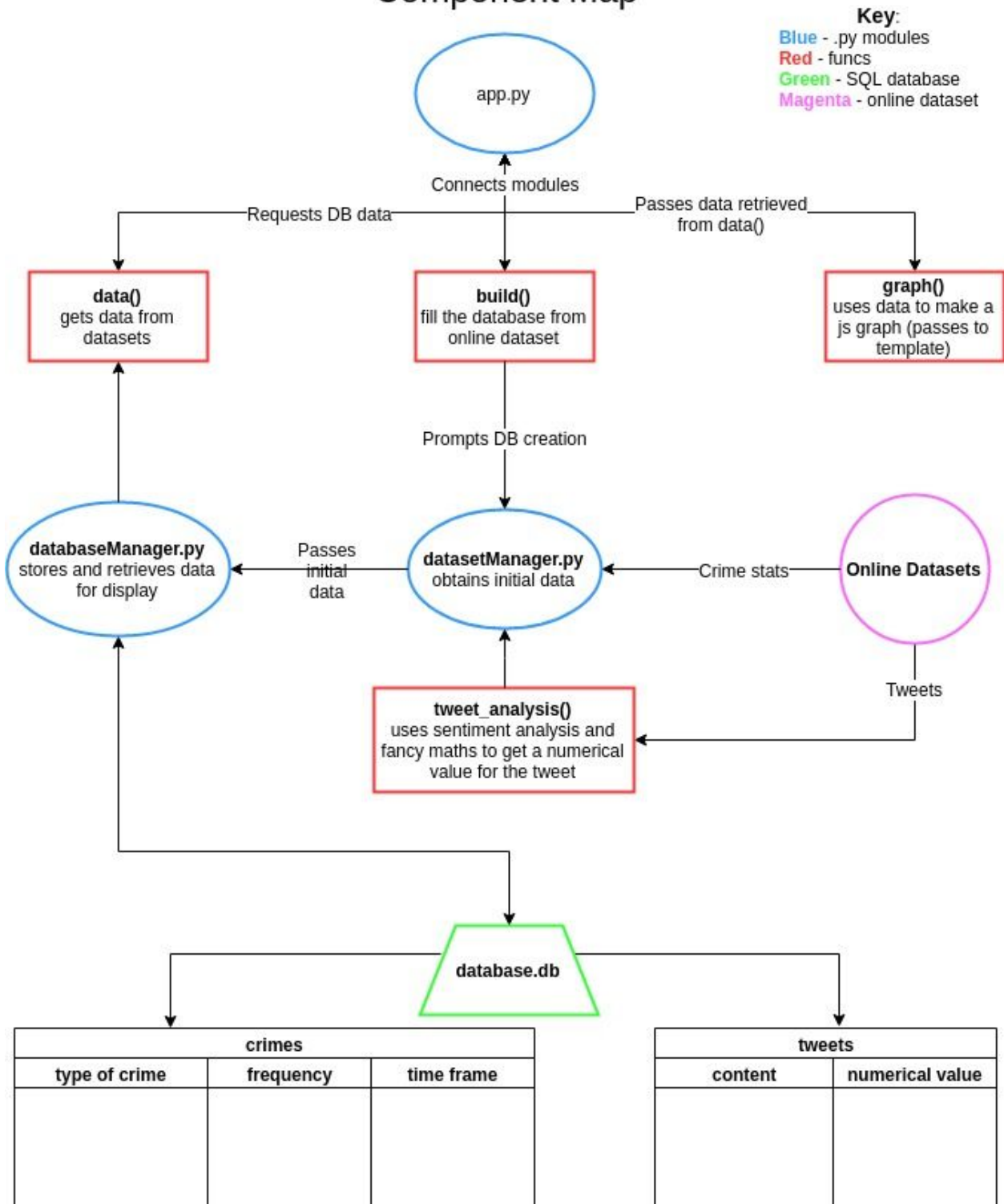
by

shish-KeMAB

This project allows the user to do what s/he has always wanted: see
the real effect Donald Trump's tweets have on our lives -- how they
affect crime! On our website we will display a graph that compares
the number of tweets [* (fancy maths) and their sentiment and oomph]
to the frequency of different crimes committed in NYC in that time
frame. [User will be able to filter tweets by keyword, and crimes by
type.] User can also hover over a data point on the tweets' bar graph
and a popup of the text of the tweet will show up.

Site Map / Layout

Component Map

app.py

Connects modules

Requests DB data

Passes data retrieved
from data()

data()
gets data from
datasets

build()
fill the database from
online dataset

graph()
uses data to make a
js graph (passes to
template)

Prompts DB creation

databaseManager.py
stores and retrieves data
for display

Passes
initial
data

datasetManager.py
obtains initial data

Crime stats

Online Datasets

Tweets

tweet_analysis()
uses sentiment analysis and
fancy maths to get a numerical
value for the tweet

database.db

crimes		
type of crime	**frequency**	**time frame**

tweets	
content	**numerical value**

```
A SQL database will be used.
```

Division of Labor
- Karol - Peanut M&Ms, app.py routes, general purpose programming
- Anthony - Frontend javascript formatting, graph()
- Bayle - database manager, dataset manager, data()
- Misha - sentiment analysis, and the rest of the work

Extended Features (sort of)
- Word frequency analysis and displaying
- Sentiment analysis of tweets and incorporation of data into graph

Timeline

Thursday, March 30:
- Obtain data from sources, store in database
- Start working on basic flask app functions

Friday, March 31:
- Start interacting with data in database, work on analysis functions
- Start work on javascript and d3 frontend, display some data

Saturday, April 1:
- Establish connection between javascript display functions and data analysis
- General work on analyzing and displaying data

Sunday, April 2:
- Work on formatting of data displaying
- Work on interactive parts of website, including hoverable object and intractable parts of graph
- Consider extended features of projects
- Stress test

Monday morning, April 3:
- More stress testing?
- Quickly fix any bugs!