Air Quality Data Visualization Tool
User Manual

CSE 412 F20 Group 9

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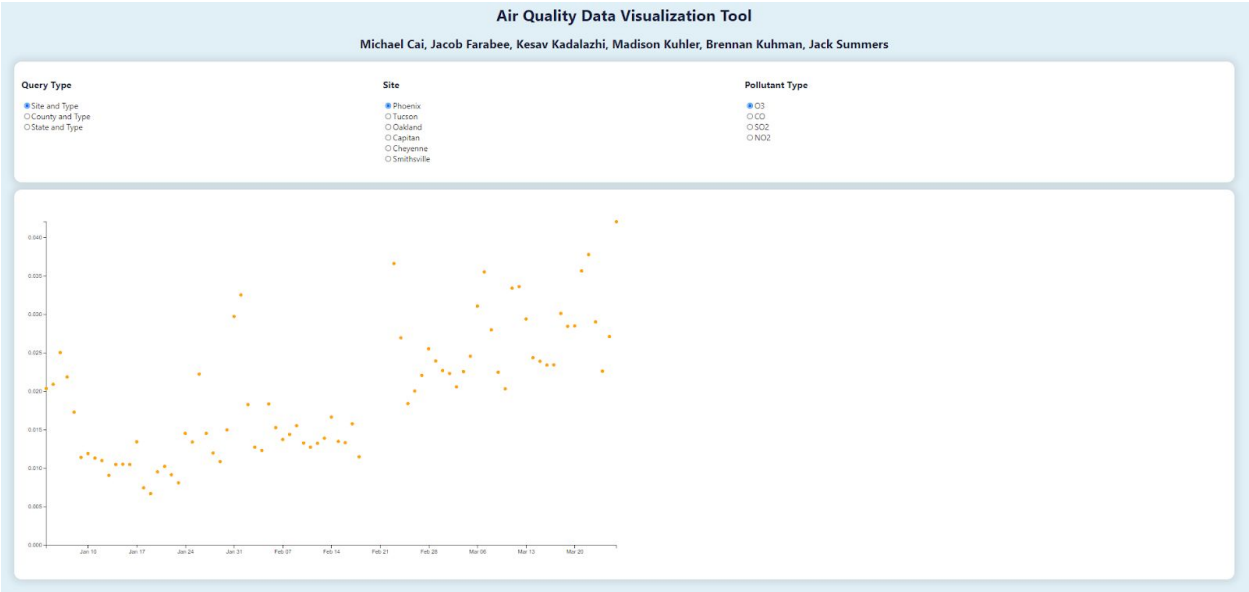
Using the Application

Access

The application is deployed and viewable at [https://cai-michael.github.io/CSE412/]. Upon loading the landing page, you should see the following:

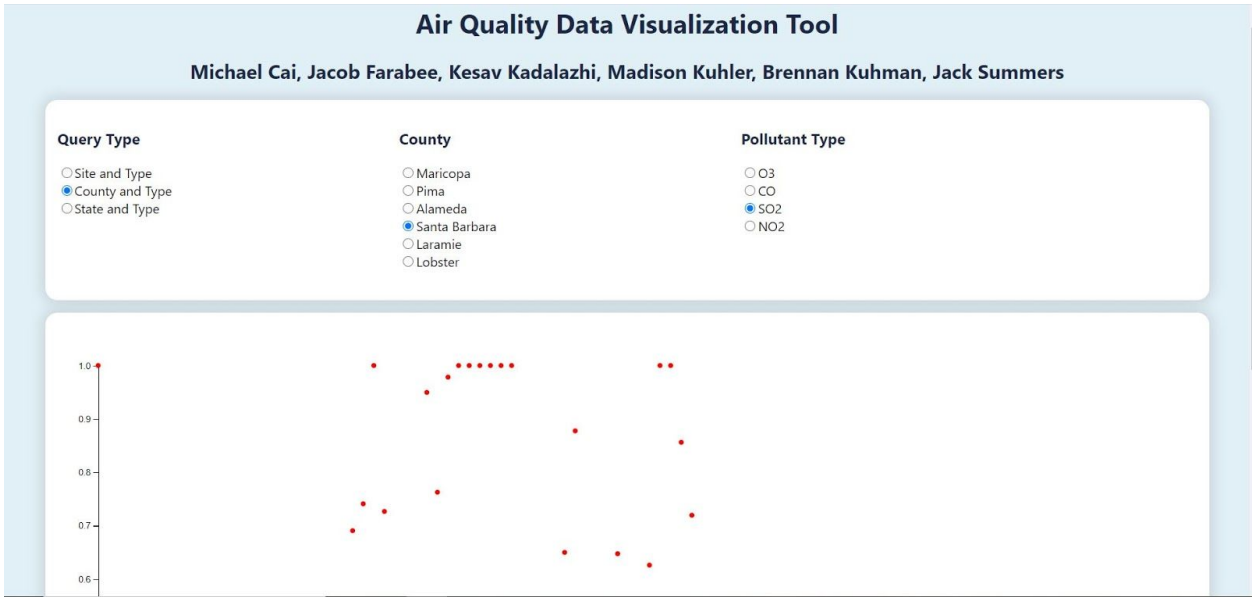


Usage

To test the database queries, select a query type, then select a location (a state, site, or county), and finally select a pollutant type. The graph will responsively display the pollutant data after querying the database when the user changes their selection.

Modifying th

For example, below you can see an example where a user has selected the “County and Type” as the query, Santa Barbara as the County, and



Adding Data

Authorized users with the correct API key can insert data using the command line interface tool. This is located in the “lambdaFunctions” folder under the script name “insertInterface.py”. By running this script in python the user can add data to the database.

Choosing 1 will prompt the user to enter in a state name to insert into the states table

```
What would you like to insert to the database?
1. State
2. County
3. Pollutant Site
4. Pollutant Sample
5. Quit
1
Please input a state name: Maine
"Successfully inserted ('Maine',) as id 10"
```

```
What would you like to insert to the database?
1. State
2. County
3. Pollutant Site
4. Pollutant Sample
5. Quit
2
Please input a county name: Lobster
"Successfully inserted ('Lobster',) as id 87"
```

```
What would you like to insert to the database?
1. State
2. County
3. Pollutant Site
4. Pollutant Sample
5. Quit
3
Please input a county name: Lobster
Please input a state name: Maine
Please input an address: 1234 Fake Address
Please input a city: Smithtown
"Successful inserted 1234 Fake Address as 10004"
```

```
What would you like to insert to the database?
1. State
2. County
3. Pollutant Site
4. Pollutant Sample
5. Quit
4
What pollutant is it?: CO
Please input the address: 1234 Fake Address
At what point what the pollutant most concentrated?: 12
What date is this sample?: 12/1/2020
What is the max concentration reached?: 0.5
Please input the aqi: 1
Please input the units of measurement: ppm
Please input the mean concentration: 0.2
"Successfully inserted sample 5988"
What would you like to insert to the database?
1. State
2. County
3. Pollutant Site
4. Pollutant Sample
5. Quit
5
```