GitHub Analysis

Note: We have attached the video of running the application with all the inputs for your reference in the submitted zip. If you want to run the application on your machine, below are the steps to do so.

Accessing GitHub API:

To use the GitHub API, we need to generate a token using GitHub username and password.
We have already generated a token and used it in the file app.py.
In case the token doesn't work, you can use any of the below tokens in the app.py file.

1. c9da7ca06af46a44c2b3b3295ddc56fb91a87fd0
2. aebf2c813b4d40cd2832b0fff6bfa744c090a5c5
3. 249901aafcd23c28b8a4e519de5dd6807c392f98

Running the application

Step 1: Installing Python Packages

Please install below packages to run our application-

```
pip install flask
pip install requests
pip install pyGithub
pip install scikit-learn
pip install bokeh
pip install pandas
pip install plotly
pip install networkx
pip install matplotlib
```

Step 2: Running python file

Go to the directory 'Github\Smdm_flask_final' from the submitted zip.
Run the python file using command- 'python app.py'
The application will open in browser.

Step 3: Giving Inputs in application

Below are some sample inputs for each text field on the application.

1. For User Analysis you can give any of the below usernames.
   ayesha92ahmad, gettalong, sneeu, derekjhyang, johnl, alexanderadam, Neuw84, MrGalaxyn, perminder-klair, nitinhayaran

2. For Repository Analysis you can give any of the below usernames.

ayesha92ahmad, gettalong, sneeu, Derekjhyang, andrew, johnl, alexanderadam, Neuw84, perminder-klair, nitinhayaran

3. For Language Analysis you can give any of the below language names. (Case sensitive)
   JavaScript, Python, Java, PHP, Ruby, C, C++, Objective-C, C#, Shell

Note: Please bear with the application if it takes a little more time to load the resulting analysis. The application may take a little time as we are getting real time data from GitHub for some analysis and for some analysis, we are using a huge dataset and computations.