**WhatsUp PGH ReadMe**

Group Members:

Allison Michalowski amichalo@andrew.cmu.edu

Eshan Mehotra emehotr@andrew.cmu.edu

Sowjanya Manipal smanipal@andrew.cmu.edu

Hello and thank you for using our application. In addition to the base installations that come installed with Anaconda and many other IDEs, please ensure that you have the following packages installed: geopandas, Descartes, beautifulsoup4, geopy, lxml, Tweepy, and wordcloud. Depending on the edition you have of Anaconda or the python installation you have, you may already have some of these libraries installed. However, if you do not, you may need to install them prior to running the project.

Since geopandas can conflict with many dependency settings in Anaconda and complicate the installation process, it may be advisable to create a conda environment if you intend to utilize Anaconda to run the program. The steps below demonstrate how you can create and properly update an environment to be compatible with this program.

- Please open the Conda Prompt Terminal
    - Search "Anaconda Prompt (anaconda3)" from the start menu
- Please create a new environment in your Conda Prompt
    - conda create --name geoenv
    - confirm with "y"
- Activate the new environment
    - conda activate geoenv
- Confirm that the new environment is selected
    - ("new environment") not ("base")
- Install the following packages with conda
    - conda install geopandas
    - conda install decartes
    - conda install beautifulsoup4
- Install the following packages with pip
    - pip install geopy
    - pip install lxml
    - pip install Tweepy
    - pip install wordcloud

Once your environment is ready, you can proceed with operating the program. Within the folder A1_Group8_FinalProject, you should be able to find the following files:

1. all_event_neighbor_final.csv
2. hood_eveent_scrape_module.py
3. multiuser_tweets_arc.csv

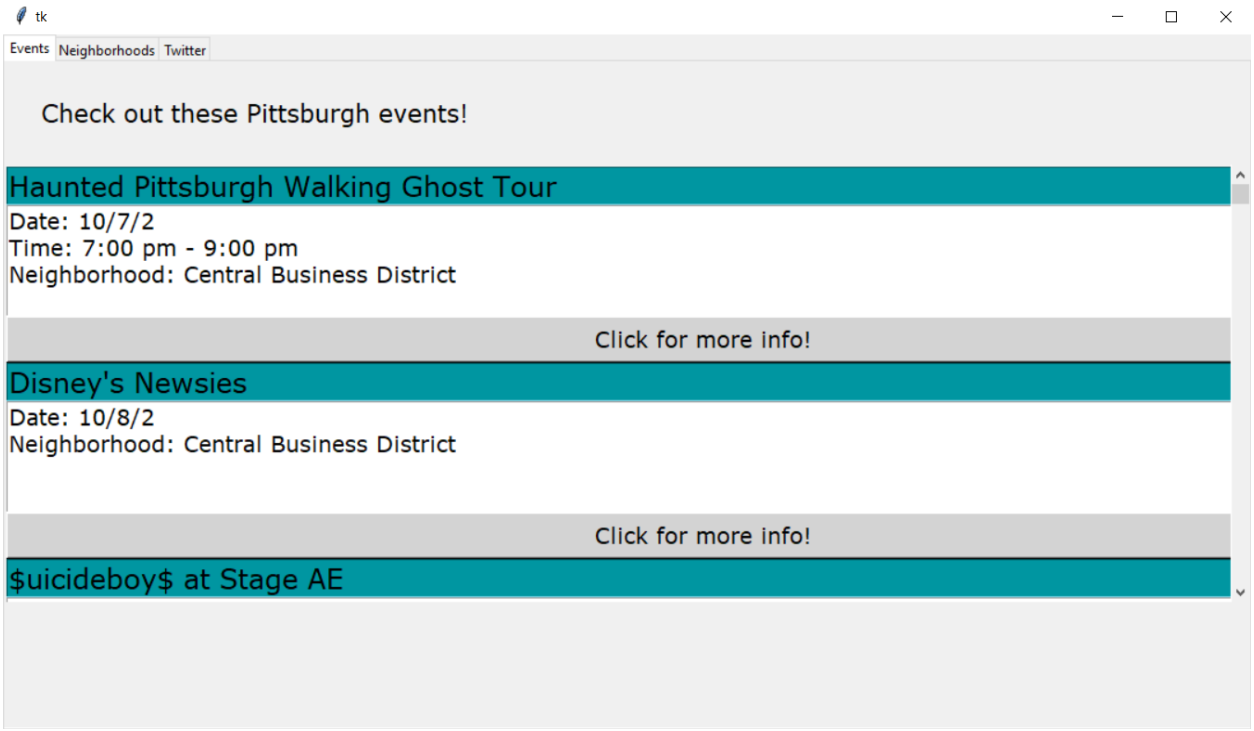
4. newstopwordlist.txt
5. pgh_neighbor_merge_final.csv
6. tweepycreds.csv
7. twittermask_bwnew.png
8. TwitterScraping.py
9. WhatsUp_main_gui.py

**Running the Program**

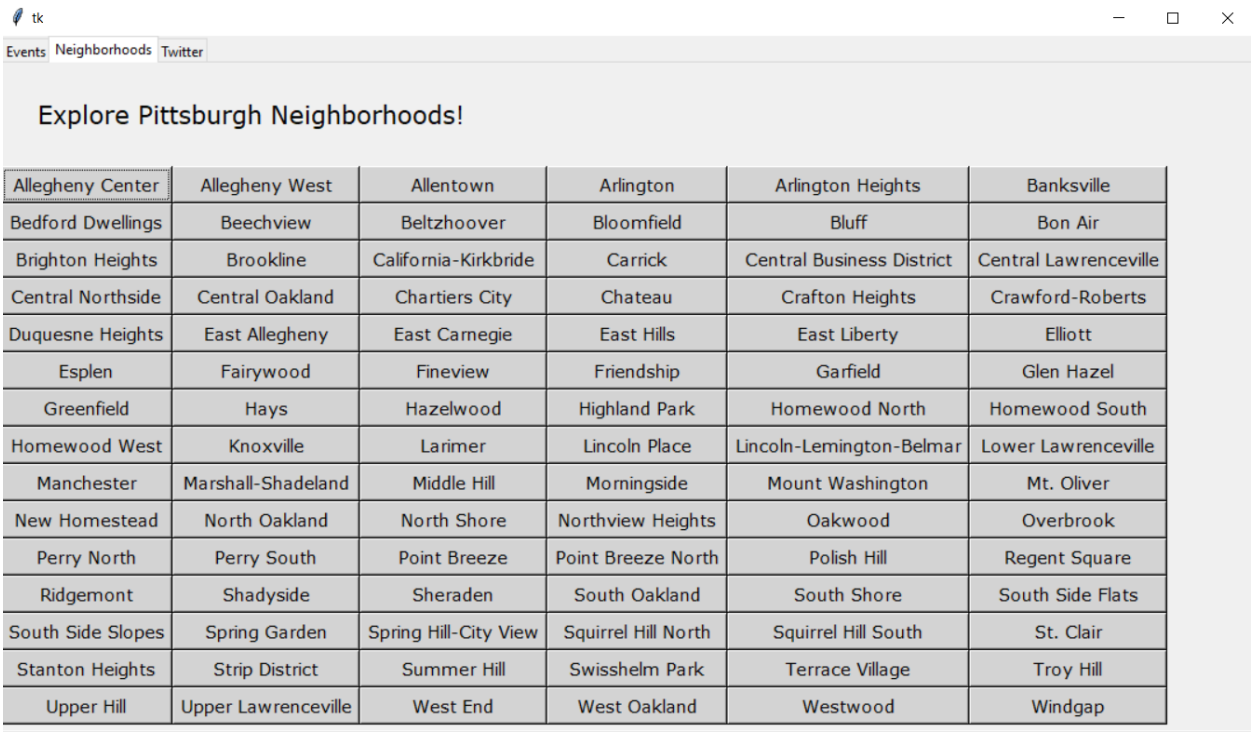
Once you have made sure that you have the appropriate set of files, you can run the program using the following steps.

1. Open WhatsUp_main_gui.py in your IDE
2. Run WhatsUp_main_gui.py
3. Select whether you want to live scrape the data (15-20 minutes depending on the amount of events) or access archived records of the data on the main screen.

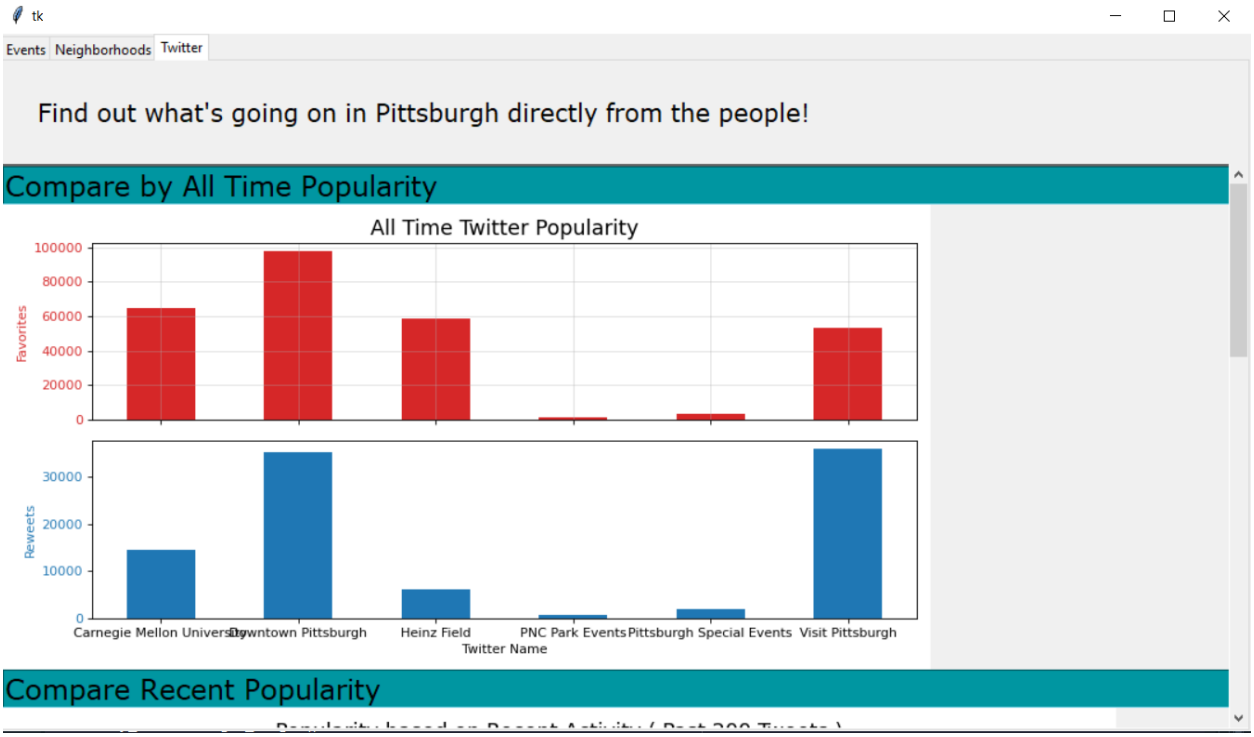

4. Once the next screen has loaded, you can freely navigate among the events, neighborhood, and Twitter tabs.
5. On the events tab, clicking on the see more info button allows you to open another window, which will contain additional information scraped about that event as well as information on the neighborhood the event is in.




6. On the neighborhoods tab, clicking on the name of a neighborhood will open a window containing information about that neighborhood.




7. The twitter tab shows you recently scraped information from several popular twitter accounts that discuss Pittsburgh events.




For more information on how to operate the program, watch this tutorial: https://youtu.be/X2omM8U2rwA