Website Use

- Upload
    - Place Json files in a '.zip' file. Then click 'Upload JSON'.
    - This will take several minutes to complete as it is extracting the JSON and creating .csv files that will be used to generate all other visualizations.
- Visualizations
    - After the upload is complete you will be taken to the Visualizations page. This page has buttons that will generate and display various visualizations. Each button has a description of the visualization that will be created.

The navigation bar at the top can also be used to move between the Visualizations page and Upload page.

Website Installation

Windows:

The website requires both git and python to be installed on the host computer. If they are not already installed they can be installed from these links.

Git: https://git-scm.com/download/win
Python: https://www.python.org/downloads/

Next open powershell, this can be done by right clicking the windows icon and searching for powershell.

Once powershell is open copy and paste these commands in order:

```
git clone https://github.com/Icodextrin/LASG_Website.git
cd LASG_website/
pip install -r requirements_windows.txt
python -m spacy download en_core_web_sm
python manage.py runserver
```

This will install all of the necessary python packages and then start the website.
When the tools are finished loading go to
http://127.0.0.1:8000
This will load the website in your browser.

Linux:

The website requires both git and python to be installed on the host computer. If they are not already installed they can be installed from these commands.

```
sudo apt install git-all
sudo apt install python
```

After those programs are installed run the following commands:

```
git clone https://github.com/Icodextrin/LASG_Website.git
cd LASG_website/
chmod +x install.sh
chmod +x run.sh
./install.sh
```

```
./run.sh
```

This will install all of the necessary python packages and then start the website.
When the tools are finished loading go to http://127.0.0.1:8000
This will load the website in your browser.

MacOS:

First you must install git and python3 if they are not already installed.

Open the terminal and type:

```
git --version
```

If git is not already installed this will open an installation window where git will ask you to install it.

Next type:

```
python --version
```

If the result says that you have Python 3.* you may skip the following three commands.
If the result says that you have Python 2.* type the following:

```
/bin/bash -c "$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"
export PATH="/usr/local/opt/python/libexec/bin:$PATH"
brew install python
```

Now that python and git are correctly installed type the following:

```
git clone https://github.com/Icodextrin/LASG_Website.git
cd LASG_website/
chmod +x install.sh
chmod +x run.sh
./install.sh
./run.sh
```

Website Documentation

All code is hosted at https://github.com/Icodextrin/LASG_Website/

This website is built off of Django the documentation for Django is located at:
https://docs.djangoproject.com/en/3.2/

The general flow for the website is as follows:

- Upload zipped Json file
- Unzip files and place Json in /media/json
- Run panda_converter.py to convert json to csv
- Render vis.html
- On button click run the corresponding python script in the /scripts folder which reads in csv files and does data analysis on them.
- Return the corresponding HTML file that displays the generated graphs.

File Tree:

/media: This is where all generated files are located
    csv: Generated csv files are located here.
    Graphs: Generated graphs
    Json: unzipped json files
/scripts: contains the scripts to generate the graphs as well as unzip the json files.
/website: contains the settings.py and url.py that will allow you to change the settings of the website as well as add additional pages to the url manager.
manage.py: the python script responsible for starting the django server.
requirements.txt: contains all necessary python dependencies.
/templates: contains all of the html.