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Loungebuddy Final Project

Github Repository Link: https://github.com/phi-h-nguyen/data-focused-python

Group Members

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Usage

Run main.py to use this application. See installation instructions using pipenv below.

Modules

lounges.py

Webscrapes www.loungebuddy.com to return a list of all lounges seperated by terminal based on given airport codes.

aviationstack.py

Uses the API provided by www.aviationstack.com/ to get real time flight data. Cleans data with pandas / numpy and does visualizations with matplotlib. Note that this API is limited to 100 requests / month, so if you run into any issues querying data, please sign up for a new API key and replace the one used. There are 2 sample datasets included in this repository: PIT -> DFW on 2/24 and PIT -> MDW on 3/1 that replace the need to query new data. Anytime new data is queried, json files are created so that the data can be saved and used in the future.

weatherAPI.py

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Uses the OpenWeatherMap API to query weather data.

main.py

The file to run. This runs a command-line based menu that allows you to explore flight information such as weather, flight delays, and lounges.

Installation

Uses pipenv to keep track of requirements and enviornment. To install, run pip install —user pipenv. After installing pipenv, install all dependencies by running pipenv install

Virtual Environment

Run pipenv shell in your command line to activate this project's virtual environment. If you have more than one version of Python installed on your machine, you can use pipenv's —python option to specify which version of Python should be used to create the virtual environment. If you want to learn more about virtual environments, read this article.

Downloading Packages

The repository contains Pipfile that declares which packages are necessary for the project. To install packages declared by the Pipfile, run pipenv install in the command line from the /app directory.

To add additional packages, run pipenv install [PACKAGE_NAME], as you would install python packages using pip. This will update Pipfile and add the downloaded package under [packages]. Note that Pipfile.lock will also be updated with the specific versions of the dependencies that were installed. Any changes to Pipfile.lock should also be committed to your Git repository to ensure that everyone on the team is using the same dependency versions.

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