**Final Project Checkpoints**

**11/13/23**

Resources*:* [public-apis/public-apis: A collective list of free APIs (github.com)](https://github.com/public-apis/public-apis#index)

Current API :

* [Enterprise-Grade Bank and Public Holidays API - Calendarific](https://calendarific.com/) Plan A
  + [Holiday API Documentation - Calendarific](https://calendarific.com/api-documentation)
* [Random Useless Facts (jsph.pl)](https://uselessfacts.jsph.pl/) Plan B

I plan to use the Calendarific API, which is a database of all the holidays worldwide, which can be sorted by year. I am thinking about organizing the holidays by the country they originate from and displaying it on the front-end side with lists/buttons.

I utilized Thundercilent to test GET requests to the API and figure out how and what data I can request, the main api parameters consists of countries, year and then there are more specific ones such as type (national, local, religious, & observance), location, day, & month.

I also made an account to use this API which provided me with an API Key (the site was free)

*Api\_key = lyaHHqfd1ixEesSTLhGnBA5R6ix1gDr1*

*API Base Url : http://calendarific.com/api/v2*

**11/16/23**

Resources:

[How to Use an API with Python (Beginner's Guide) [Python API Tutorial] (rapidapi.com)](https://rapidapi.com/blog/how-to-use-an-api-with-python/)

[Code Samples - Calendarific](https://calendarific.com/client-libraries)

[What are Libraries In Python & How to Use Them - Code Institute Global](https://codeinstitute.net/global/blog/what-are-libraries-in-python/)

I downloaded the PIP Package Manager for Python and the Calendarific PHP library as a Python PIP Package.

Need helping created requirements.txt file and using the packages.

Small issue when it comes to installing packages, they must be installed through Ubuntu & PowerShell so I am able to import packages into my python file.

I plan to reinstall all the packages that weren’t installed correctly and start practicing how to use them specifically, flask.

**11/30/2023**

Resources:

[Pull data from an API in Python - A detailed Guide! - AskPython](https://www.askpython.com/python/examples/pull-data-from-an-api)

[How to Send and Receive Data in Flask – Software Development for Everyone (realpythonproject.com)](https://www.realpythonproject.com/how-to-send-and-receive-data-in-flask/)

[flask-request/app.py at master · cwilvx/flask-request · GitHub](https://github.com/cwilvx/flask-request/blob/master/app.py)

Learned how to send requests and check the source code to see if there was an issue and/or what the issue is.

I tried to use

from flask import Flask,request

to access the parameters from the request I made, however in the terminal it said

ModuleNotFoundError: No module named 'flask'

Working towards requesting and displaying data from the API without using Flask and instead using basic python requests until I can figure out what the issue is with flask.

**12/6/2023**

Resources:

[Template Designer Documentation — Jinja Documentation (3.0.x) (palletsprojects.com)](https://jinja.palletsprojects.com/en/3.0.x/templates/)

[Quickstart — Flask Documentation (2.2.x) (palletsprojects.com)](https://flask.palletsprojects.com/en/2.2.x/quickstart/#apis-with-json)

[Integrating an External API into a Flask Application | Engineering Education (EngEd) Program | Section](https://www.section.io/engineering-education/integrating-external-apis-with-flask/)

I checked windows PowerShell terminal for flask and found that I had to install on there as well even though it was installed through the Ubuntu terminal. I checked to see what is now installed and I have pip, flask, ninja, json, and etc all installed on both terminals.

Using flask to request the API data again since it works now after being installed on both the windows PowerShell terminal and the ubuntu terminal.

Currently working with two files one using JSON & Requests and the other using Flask, JSON, and Jinja to see what is easier to use.

Created a jinja file to begin working on the front-end where the data will be received and display.

I plan to use jinja templates to create a form in html that will request the data in python, and then display the data back to the html.

**12/7/2023**

Opening the virtual environment:

*cd ./testproject/calendar-api/*

*source venv/bin/activate*

*flask --app calendar-api run*

I learned how to properly open up my virtual environment and run flask to see if my code works. After seeing that the API request worked, I figured out how to display the data in the html using jinja, and I decided instead of doing a form to just request the data in the python file. Then, have the data display with jinja and stylized with CSS.