

## Task 2

How would you approach test automation of an HTTP API of some service? Choose a service from this list <https://github.com/toddmotto/public-apis> or any other of your choice. It is better to pick one without authorization, as it is easier to test.

Document several test cases. Implement one or two automated tests based on the test cases. Write the tests as if they were a part of a real project.

## Solution:

I have selected a service [<https://www.metaweather.com/api/>] from the link provided in assignment and I did following steps

1. Created an excel document named as **test\_case\_document.xlsx** for test cases, you can find it in **task\_2** folder.
2. Automated both of the test cases using **python** with **pytest** and **pytest-bdd**. I have used BDD approach. You can find automation code in **auto\_project\_root** folder and I did the following in automation project.
  - a. Created a complete framework architecture. I have divided the framework in three major components namely **inputs**, **auto\_engine** and **outputs**
  - b. You should go through following three files to read automation code
    - i. **auto\_engine/tests/api/features/weather.feature**
    - ii. **auto\_engine/tests/api/steps/test\_weather\_steps.py**
    - iii. **auto\_engine/logic/api/weather\_logic.py**
  - c. I have used python **3.7** and **pycharm** as IDE while developing script

## Automated Test Case Execution

This section will help you in running the test cases. I have created python **venv** (virtual environment), so there is no need to install any libraries or dependencies just add **venv** in your python interpreter path.

In order to execute the test cases just change the directory to root folder **auto\_project\_root** in cmd or any other terminal you are using and run the following commands

- **pytest** auto\_engine/tests/api/steps/test\_weather\_steps.py OR
- **pytest** -v -m api regression

## Framework Architecture

