Sprint-4

Date	18 November 2022
Team ID	PNT2022TMID37323
Project Name	Predicting the energy output of wind turbine based on weather condition

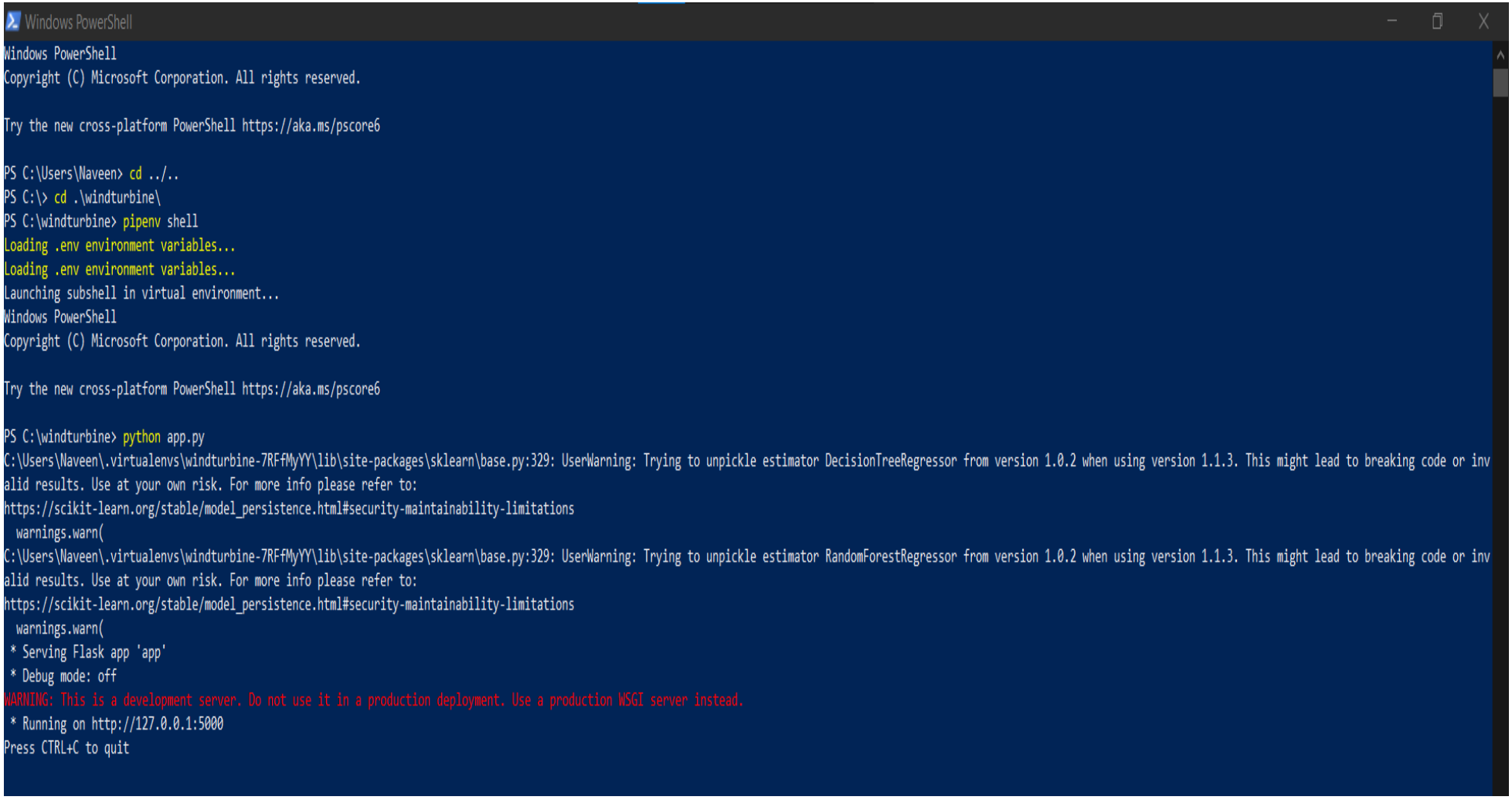
Locustfile.py

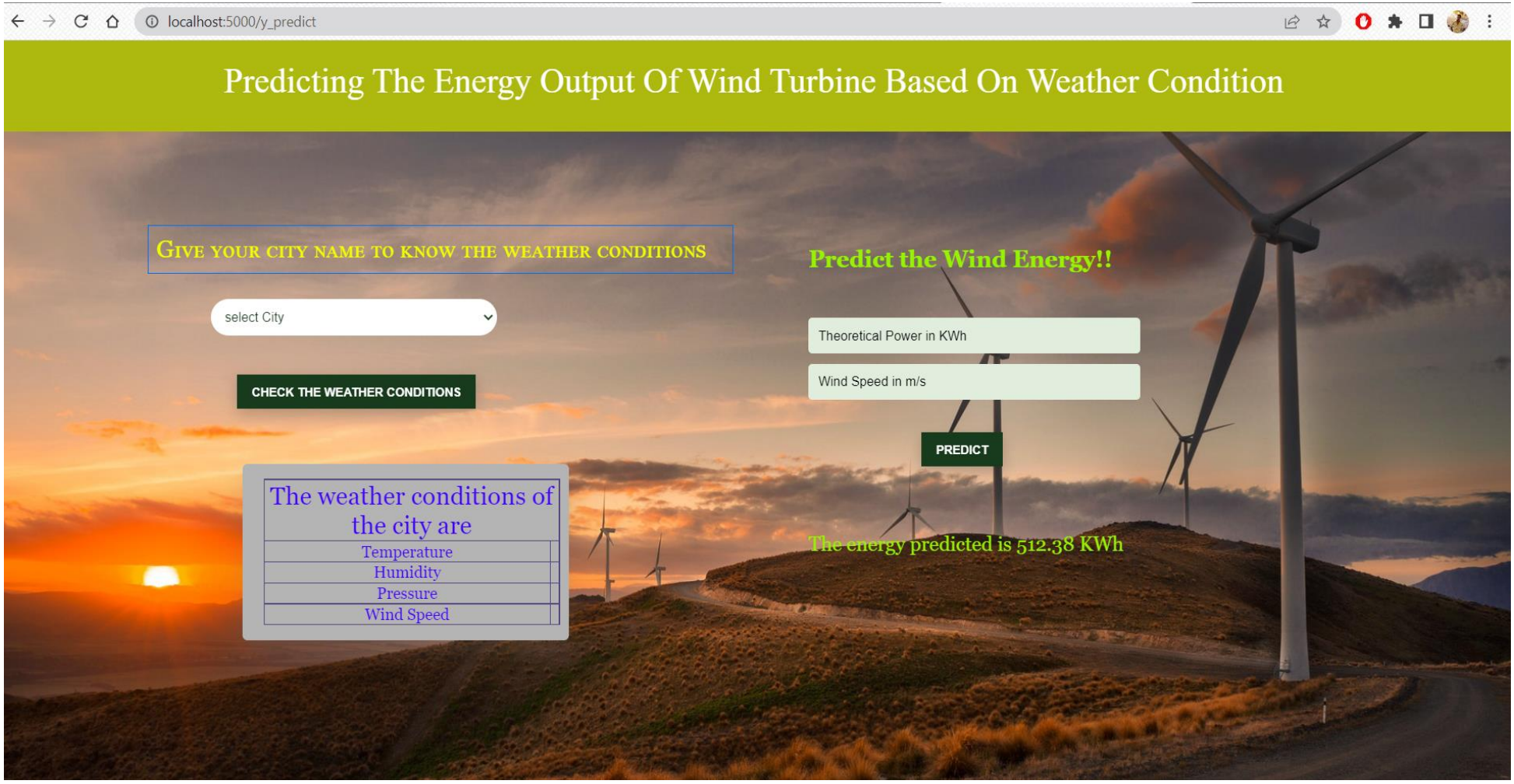
```
import time
from locust import HttpUser, task, between

class QuickstartUser(HttpUser):
    wait_time = between(1, 5)

    @task
    def hello_world(self):
        self.client.get("/")
        self.client.get("/predict")

    @task(3)
    def view_items(self):
        self.client.get("/")
        self.client.get("/predict")
```


Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\Naveen> cd ../..
PS C:\> cd .\windturbine\
PS C:\windturbine> pipenv shell
Loading .env environment variables...
Loading .env environment variables...
Launching subshell in virtual environment...
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\windturbine> python app.py
C:\Users\Naveen\.virtualenvs\windturbine-7RFfMyYY\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator DecisionTreeRegressor from version 1.0.2 when using version 1.1.3. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
C:\Users\Naveen\.virtualenvs\windturbine-7RFfMyYY\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator RandomForestRegressor from version 1.0.2 when using version 1.1.3. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit


localhost:5000/y_predict
Predicting The Energy Output Of Wind Turbine Based On Weather Condition
GIVE YOUR CITY NAME TO KNOW THE WEATHER CONDITIONS
select City
CHECK THE WEATHER CONDITIONS
The weather conditions of the city are
Temperature
Humidity
Pressure
Wind Speed
Predict the Wind Energy!!
Theoretical Power in KWh
Wind Speed in m/s
PREDICT
The energy predicted is 512.38 KWh