

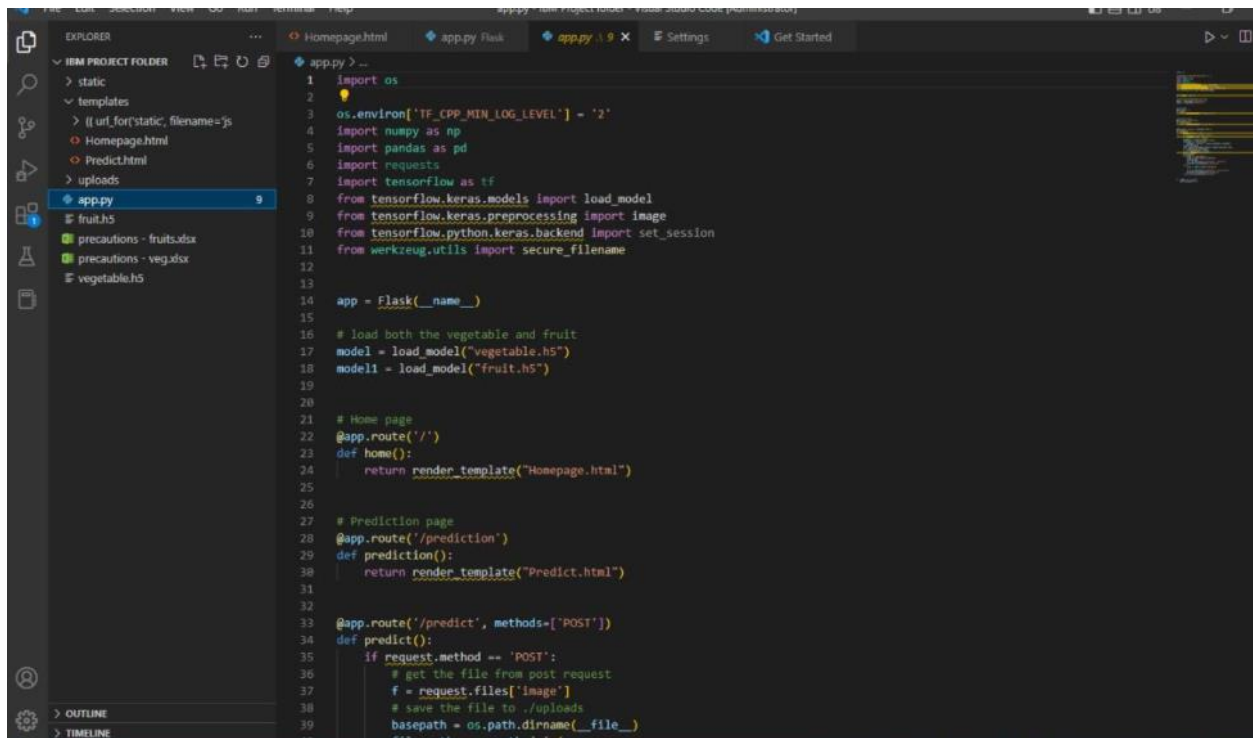
# Fertilizers Recommendation System for Disease Prediction

## Project Structure

Date	19-11-2022
Team ID	PNT2022TMID38223
Project Name	Fertilizers Recommendation System for Disease Prediction

Project Structure:

Create a Project folder that contains files as shown below



```
1 import os
2
3 os.environ['TF_CPP_MIN_LOG_LEVEL'] = '2'
4 import numpy as np
5 import pandas as pd
6 import requests
7 import tensorflow as tf
8 from tensorflow.keras.models import load_model
9 from tensorflow.keras.preprocessing import image
10 from tensorflow.python.keras.backend import set_session
11 from werkzeug.utils import secure_filename
12
13
14 app = Flask(__name__)
15
16 # load both the vegetable and fruit
17 model = load_model("vegetable.h5")
18 model1 = load_model("fruit.h5")
19
20
21 # Home page
22 @app.route('/')
23 def home():
24     return render_template("Homepage.html")
25
26
27 # Prediction page
28 @app.route('/prediction')
29 def prediction():
30     return render_template("Predict.html")
31
32
33 @app.route('/predict', methods=['POST'])
34 def predict():
35     if request.method == 'POST':
36         # get the file from post request
37         f = request.files["image"]
38         # save the file to ./uploads
39         basepath = os.path.dirname(__file__)
40         filename = f.filename
```

- Dataset folder contains the training and testing images for training our model.
- We are building a Flask Application that needs HTML pages stored in the templates folder and a python script app.py for server side scripting
- we need the model which is saved and the saved model in this content is a nutrition.h5
  - templates folder contains home.html, image.html, imageprediction.html pages.
  - Statis folder had the css and js files which are necessary for styling the html page and for executing the actions.
  - Uploads folder will have the uploaded images (which are already tested).

- Sample\_ images will have the images which are used to test or upload.
- Training folder contains the trained model file