

## PROJECT STRUCTURE

Date	10 November 2022
Team ID	PNT2022TMID21470
Project Name	Fertilizers Recommendation System For Disease Prediction
Maximum Marks	4 Marks

The project structure screenshot is given below.

The screenshot displays the Visual Studio Code interface for a project named 'app.py - project ibm'. The Explorer sidebar on the left shows the project structure under 'PROJECT IBM':

- Dataset Plant Disease
  - fruit-dataset\fruit-d...
  - Veg-dataset\Veg-d...
- flask
  - static
  - templates
    - home.html
    - predict.html
    - predict2.html
- app.py (1)
- docker-compose.yml
- Dockerfile
- fruit.h5
- requirements.txt
- vegetable.h5
- training files
  - Fruit-Training.ipynb
  - Vegetable-Training.i...
- requirement.txt

The main editor shows the code for 'app.py':

```
1 from flask import Flask,render_template,request
2 import cv2
3 import numpy as np
4 import io
5 from tensorflow import keras
6
7 app = Flask(__name__)
8 model = keras.models.load_model("F:\project ibm\flask\fruit.h5")
9 model2 = keras.models.load_model("F:\project ibm\flask\vegetable.h5")
10 categories = ['Apple__Black_rot','Apple__healthy','Corn_(maize)__healthy','Corn_(maize)__Northern_Leaf_Blight','Peach__Bacterial_spot','Peach
11 categories2 = ['Pepper,_bell__Bacterial_spot','Pepper,_bell__healthy','Potato__Early_blight','Potato__healthy','Potato__Late_blight','Tomato
12
13
14 @app.route('/',methods=['GET', 'POST'])
15 def home():
16     return render_template('home.html')
17
18 @app.route('/predict',methods=['GET', 'POST'])
19 def predict():
20     if request.method == "POST":
21         image = request.files["image"]
22         # idata = base64.b64encode(image.read()).decode('utf-8')
23         in_memory_file = io.BytesIO()
24         image.save(in_memory_file)
```

The TERMINAL panel at the bottom shows the command prompt output:

```
Microsoft Windows [Version 10.0.22621.819]
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F:\project ibm>
```