

Project Structure

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|---------------|---|
| Date | 16 November 2022 |
| Team id | PNT2022TMID13813 |
| Project name | Fertilizer recommendationsystem for disease prediction |
| Maximum marks | 4 marks |

The screenshot displays the Visual Studio Code interface with a project named 'app.py - Final_Code'. The Explorer panel on the left shows the project structure:

- FINAL_CODE
 - static
 - css
 - 1.jpg
 - b4.jpg
 - download (2).jif
 - front.jpg
 - grid.css
 - material-design-iconic-font.min...
 - normalize.css
 - style.css
 - styleSucc.css
 - images
 - templates
 - home.html
 - index.html
 - predict.html
 - rech.html
 - success.html
 - app.py
 - model.hdf5

The main editor area shows the content of 'app.py' and 'rech.html'.

app.py

```
1 import os
2 import urllib
3 import uuid
4
5 import flask
6 from flask import Flask, render_template, request, send_file
7 from PIL import Image
8 from tensorflow.keras.models import load_model
9 from tensorflow.keras.preprocessing.image import img_to_array
10
11 # create a flask object
12 app = Flask(__name__)
13
14 # load the model
15 BASE_DIR = os.path.dirname(os.path.abspath(__file__))
16 model = load_model(os.path.join(BASE_DIR, 'model.hdf5'))
17
18 # create file extension test function
19 ALLOWED_EXT = set(['.jpg', '.jpeg', '.png', '.jif'])
20
21
22 def allowed_file(filename):
23     """
24     check the file fits the allowed extensions.
25     """
26     return '.' in filename and \
27         filename.rsplit('.', 1)[1] in ALLOWED_EXT
28
29
30
31
32
33
34
35 -----X-----
36
37
38
39
40
```

rech.html

```
1 <!DOCTYPE html>
2 <html lang="eng">
3
4 <head>
5     <meta charset="UTF-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <!-- <link rel="stylesheet" href="../static/css/normalize.css" -->
8     <!-- <link rel="stylesheet" href="../static/css/grid.css" -->
9     <link rel="stylesheet" href="../static/css/style.css">
10
11     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
12     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js">
13     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js">
14     <link href="https://fonts.googleapis.com/css?family=Lato:300,400,700,900" rel="stylesheet" type="text/css">
15     <title>Image Classification WebApp</title>
16     <meta name="keywords" content="custom file input, styling, image classification">
17
18 <style>
19     .content {
20         max-width: 500px;
21         margin: auto;
22     }
23
24     body {
25         width: 100%;
26         height: 100vh;
27         background-image: linear-gradient(to top right, #f0f0f0 49%, #f0f0f0 49%, #f0f0f0 49%, #f0f0f0 51%, #f0f0f0 51%, #f0f0f0 51%, #f0f0f0 51%, #f0f0f0 51%);
28         background-size: cover;
29         overflow: hidden;
30         background-position: center;
31         background-repeat: no-repeat;
32     }
33 </style>
34
35 </head>
36
37 <body>
38     <div class="">
39
40
```