APPLICATION BUILDING

Team id	PNT2022TMID45520
Project name	AI powered Food Demand Forecaster

CREATE AN HTML FILE:

```
<!DOCTYPE html>

<html>

<head>

<title>Home</title>

<style>

.navbar

{

margin: 0px;

padding:20px;

background-color:white;

opacity:0.6;

color:black;

font-family:'Roboto',sans-serif;

font-style: italic;

border-radius:20px;

font-size:25px;

}

a

{

color:grey;

float:right;

text-decoration:none;
```

```
font-style:normal;
padding-right:20px;
}
a:hover{
background-color:black;
color:white;
border-radius:15px;0
font-size:30px;
padding-left:10px;
}
p
{
color:white;
font-style:italic;
font-size:30px;
}
body
{
background-image: url("https://wallpaperaccess.com/full/6221191.jpg");
background-size: cover;
}
</style>
</head>
<body>
<div class="navbar">
<a href="/pred">Predict</a>
```

Home

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** Food Demand Forecasting **

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** A food delivery service has to deal with a lot of perishable raw materials which makes it all, the most important factor for such a company is to accurately forecast daily and weekly demand. Too much inventory in the warehouse means more risk of wastage, and not enough could lead to out-of-stocks - and push customers to seek solutions from your competitors. The replenishment of majority of raw materials is done on weekly basis and since the raw material is perishable, the procurement planning is of utmost importance, the task is to predict the demand for the next 10 weeks. **

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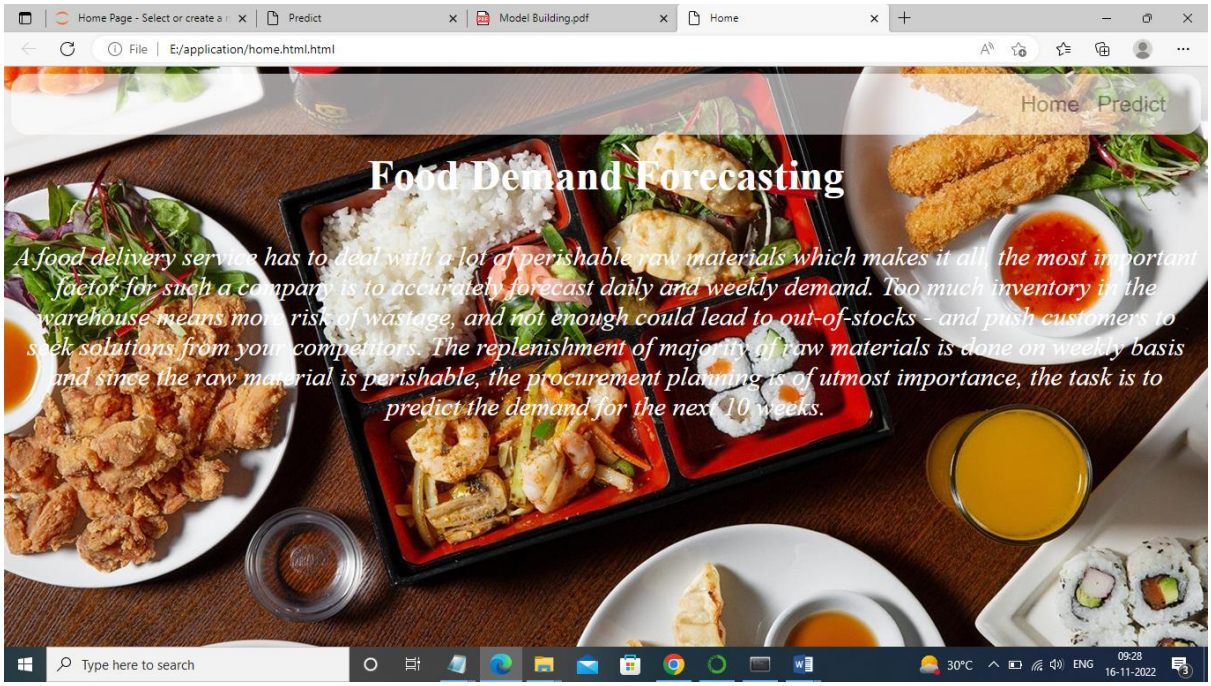
</body>

</html>

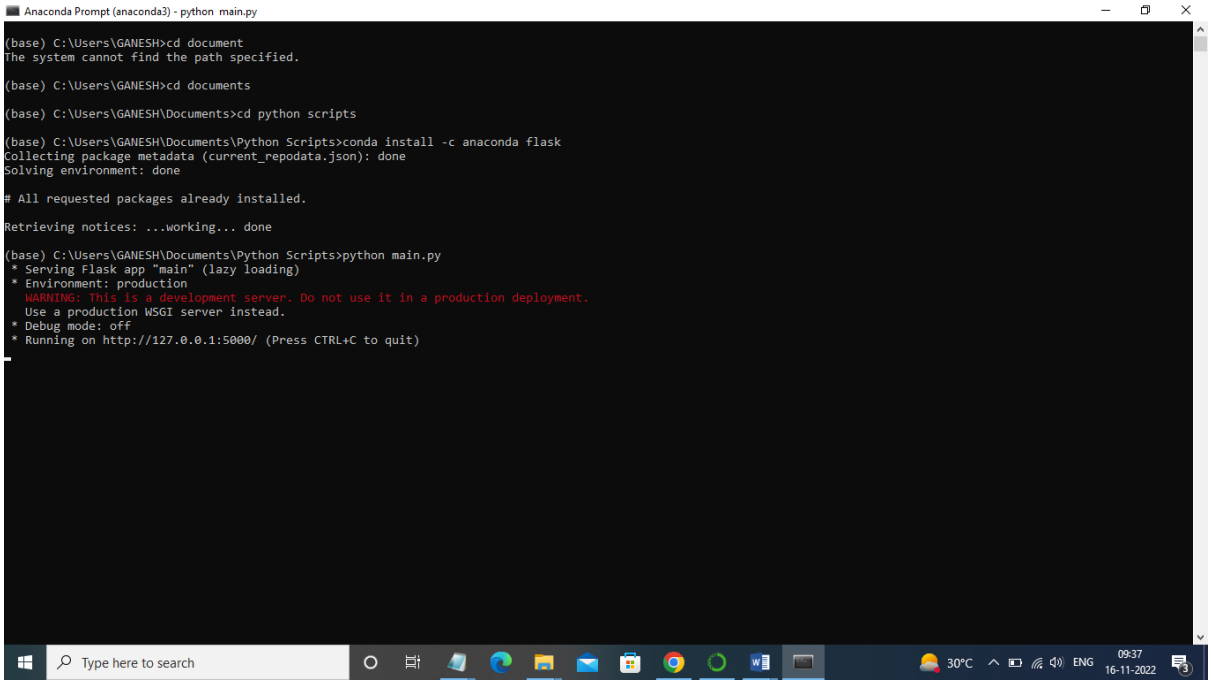


BUILD PYTHON CODE:

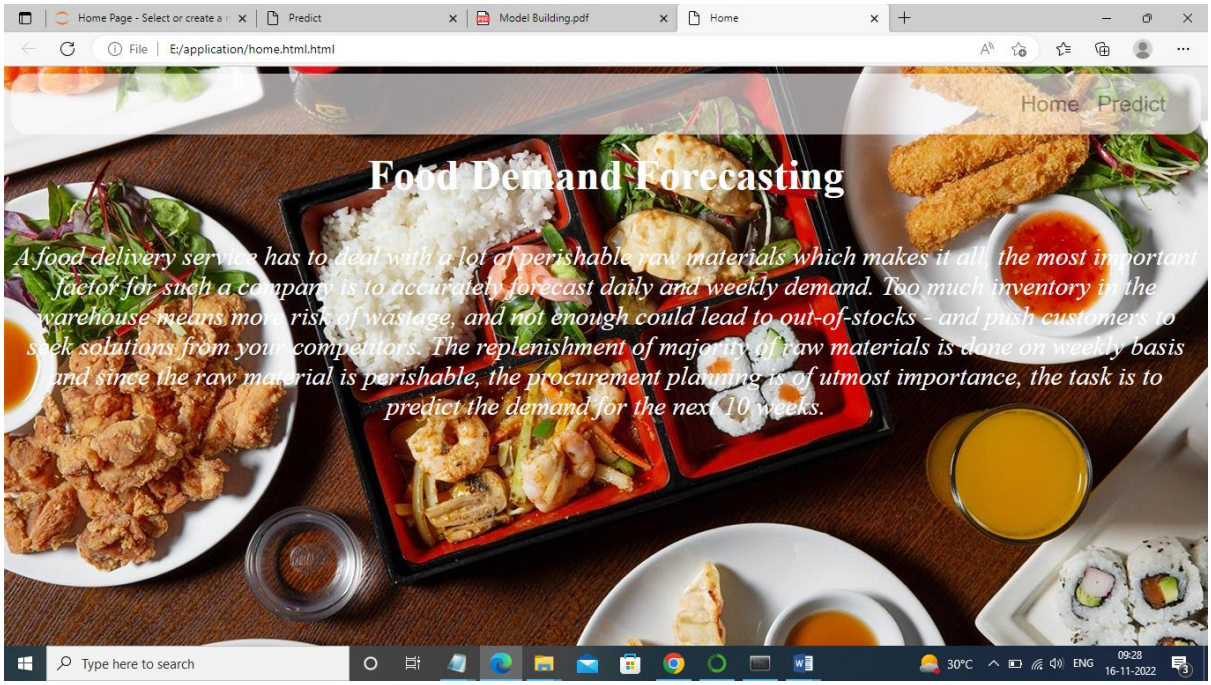
```
import pandas as pd

import numpy as np

import pickle

import os

from flask import Flask,request, render_template

app=Flask(__name__,template_folder="templates")

@app.route('/', methods=['GET'])

def index():

return render_template('home.html')

@app.route('/home', methods=['GET'])

def about():

return render_template('home.html')
```

```
@app.route('/pred',methods=['GET'])

def page():

return render_template('upload.html')

@app.route('/predict', methods=['GET', 'POST'])

def predict():

print("[INFO] loading model...")

model = pickle.load(open('fdemand.pkl', 'rb'))

input_features = [float(x) for x in request.form.values()]

features_value = [np.array(input_features)]

print(features_value)


features_name = ['homepage_featured', 'emailer_for_promotion', 'op_area',
'cuisine',

'city_code', 'region_code', 'category']

prediction = model.predict(features_value)

output=prediction[0]

print(output)

return render_template('upload.html', prediction_text=output)




if __name__ == '__main__':

app.run(debug=False)
```

RUN THE APP:



HOME PAGE:



REGISTER PAGE: