**House Price Prediction Application (Documentation)**

**Objective**

The objective of this project is to create a Flask-based web application that predicts house prices based on user-input features using a machine learning model.

**Project Setup Instructions**

**Step 1: Install Required Packages**

Open your terminal and install the following packages:

flask

pandas

numpy

scikit-learn

werkzeug

**Step 2: Import Necessary Libraries**

from flask import Flask, render\_template, request

import numpy as np

import pickle

**Step 3: Data Handling and Model Creation**

**Load the Dataset**

You can use any open-source housing dataset (such as house\_data.csv). Ensure it contains essential features like the number of bedrooms, bathrooms, size in square feet, and location.

data\_path = r'\_YOUR\_LOCATION\_/house\_price\_data.csv'

data = pd.read\_csv(data\_path)

**Step 4: Preprocess Data and Train Model**

**Step 5: Create Flask API**

@app.route('/')

def index():

    return render\_template('index.html')

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

def predict():

    val1 = request.form['bedrooms']

    val2 = request.form['bathrooms']

    val3 = request.form['size in square feet']

    location = request.form['location']

**Step 6: Create HTML Form**

**Step 7: Run the Application**

Open your terminal and run the Flask application using the following command:

python app.py