First, create a folder for **cal** project and navigate into it. Then, create the following files:

1. app.py (for the Flask backend)
2. index.html (for the HTML structure)
3. styles.css (for the CSS styling)
4. script.js (for the JavaScript functionality)

Here's the content for each file:

**1. app.py:**

from flask import Flask, request, render\_template

app = Flask(\_\_name\_\_)

@app.route('/')

def index():

return render\_template('index.html')

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

def calculate():

principal = float(request.form['principal'])

rate = float(request.form['rate'])

time = float(request.form['time'])

# Simple Interest Calculation

interest = (principal \* rate \* time) / 100

return {'interest': interest}

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True)

**2. index.html:**

Create a folder called **templates,** in side it create a index.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Simple Interest Calculator</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<div class="container">

<h1>Simple Interest Calculator</h1>

<form id="interest-form">

<div>

<label for="principal">Principal amount:</label>

<input type="number" id="principal" name="principal" required>

</div>

<div>

<label for="rate">Interest rate (per annum %):</label>

<input type="number" id="rate" name="rate" required>

</div>

<div>

<label for="time">Time (in years):</label>

<input type="number" id="time" name="time" required>

</div>

<button type="submit">Calculate</button>

</form>

<div id="result"></div>

</div>

<script src="script.js"></script>

</body>

</html>

**3. styles.css:**

Create a folder in root directory called **static,** in side it create a styles.css

body {

font-family: Arial, sans-serif;

}

.container {

max-width: 400px;

margin: 0 auto;

text-align: center;

padding: 20px;

border: 1px solid #ccc;

border-radius: 5px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

h1 {

margin-top: 0;

}

form {

margin-bottom: 20px;

}

label {

display: block;

margin-bottom: 5px;

}

input {

width: 100%;

padding: 8px;

margin-bottom: 10px;

border-radius: 5px;

border: 1px solid #ccc;

}

button {

padding: 10px 20px;

background-color: #007bff;

color: #fff;

border: none;

border-radius: 5px;

cursor: pointer;

}

button:hover {

background-color: #0056b3;

}

#result {

font-size: 18px;

font-weight: bold;

margin-top: 20px;

}

**4. script.js:**

In the same **static** folder**,** create a script.js

document.getElementById('interest-form').addEventListener('submit', function(e) {

e.preventDefault();

var principal = parseFloat(document.getElementById('principal').value);

var rate = parseFloat(document.getElementById('rate').value);

var time = parseFloat(document.getElementById('time').value);

fetch('/calculate', {

method: 'POST',

headers: {

'Content-Type': 'application/x-www-form-urlencoded',

},

body: 'principal=' + principal + '&rate=' + rate + '&time=' + time,

})

.then(response => response.json())

.then(data => {

document.getElementById('result').innerText = 'Simple Interest: ' + data.interest.toFixed(2);

})

.catch(error => console.error('Error:', error));

});

Make sure we have Flask installed (pip install Flask). Then we can run the Flask app by executing python app.py in our terminal. Use this url http://127.0.0.1:5000/ in web browser to see the simple interest calculator in action.