Mannat Nandi/43/SE2/B3

Experiment 5

Aim:

Develop a web application to fetch real-time weather data for a city. Use AJAX & a public weather API to retrieve information. Display temperature, humidity, and weather conditions dynamically.

Code:

```
<!DOCTYPE html>
<html>
<head>
   <title>PIXEL WEATHER</title>
   <link href="https://fonts.googleapis.com/css2?family=Press+Start+2P&display=swap" rel="stylesheet">
   <style>

      body {
         background: #f9ffac;
         color: #fff;
         font-family: 'Press Start 2P', cursive;
         text-align: center;
         padding-top: 50px;
      }

      .box {
         border: 4px solid #fff;
         display: inline-block;
         padding: 20px;
         background: #ff8138;
      }

      input {
         padding: 10px;
         font-family: 'Press Start 2P';
         border: 2px solid #e0ff99;
         background: #ffe817;
         color: #000000;
         outline: none;
      }

      button {
         padding: 10px;
         font-family: 'Press Start 2P';
         background: #ffdb39;
         border: none;
```

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```
        cursor: pointer;
      }

      #result { margin-top: 20px; line-height: 2; color: #ffebc5; }
      .hidden { display: none; }
    </style>
</head>
<body>

    <div class="box">
      <h2>WEATHER_BOT</h2>

      <input type="text" id="city" placeholder="CITY NAME">
      <button onclick="getWeather()">GO</button>

      <div id="result" class="hidden">
        <p id="resName"></p>
        <p>TEMP: <span id="resTemp"></span>°C</p>
        <p>HUMID: <span id="resHum"></span>%</p>
        <p>COND: <span id="resCond"></span></p>
      </div>
    </div>

    <script>

      const KEY = 'a457985020b1e033f4886ad6a94ae737';

      function getWeather() {
        const cityName = document.getElementById('city').value;
        const url =
`https://api.openweathermap.org/data/2.5/weather?q=${cityName}&units=metric&appid=${
KEY}`;


        fetch(url)
          .then(response => response.json())
          .then(data => {
            if(data.cod !== 200) return alert("CITY NOT FOUND");


            document.getElementById('result').classList.remove('hidden');
            document.getElementById('resName').innerText = "LOCATION: " +
data.name.toUpperCase();
            document.getElementById('resTemp').innerText = Math.round(data.main.temp);
            document.getElementById('resHum').innerText = data.main.humidity;
```

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```
                document.getElementById('resCond').innerText =
data.weather[0].description.toUpperCase();
            })
            .catch(err => alert("ERROR CONNECTING"));
        }
    </script>

</body>
</html>
```

Output: