

## **EXPERIMENT ASSESSMENT**

ACADEMIC YEAR 2025-26

**Course: Multidisciplinary Minor**

**Course code: MDC401**

**Year: SE          SEM: IV**

<b>Experiment No. 5</b>
<b>AIM:</b> 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.
<b>Name:</b> Prem Panchal
<b>Roll Number:</b> 48
<b>Date of Performance:</b>
<b>Date of Submission:</b>

### **Evaluation**

Performance Indicator	Max. Marks	Marks Obtained
Performance	5	
Understanding	5	
Journal work and timely submission.	10	
<b>Total</b>	<b>20</b>	

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Performance	5	3	2
Understanding	5	3	2
Journal work and timely submission.	10	8	4

**Checked by**

**Name of Faculty: Dr. Yogesh Pingle**

**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 lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
  </head>
  <body>
    <div class="container mt-4">
      <h1 class="text-center mb-4">Weather App</h1>
      <div class="input-group mb-3">
        <input
          type="text"
          id="cityInput"
          class="form-control"
          placeholder="Enter city name" />
        <button class="btn btn-primary" id="fetchWeatherBtn">
          Get Weather
        </button>
      </div>
      <div id="weatherResult" class="mt-4"></div>
    </div>
    <script>
      document
        .getElementById("fetchWeatherBtn")
        .addEventListener("click", function () {
          const city = document.getElementById("cityInput").value;
          if (city) {
            fetchWeatherData(city);
          } else {
            alert("Please enter a city name.");
          }
        });

      function fetchWeatherData(city) {
        const apiKey = "a47f41453d6b2478d58f856fc588e9bf";
```

```

    const apiUrl =
`https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${apiKey}&units=met
ric`;

    fetch(apiUrl)
    .then((response) => response.json())
    .then((data) => {
        if (data.cod === 200) {
            displayWeatherData(data);
        } else {
            document.getElementById("weatherResult").innerHTML =
            `

City not found. Please try again.</p>`;
        }
    })
    .catch((error) => {
        console.error("Error fetching weather data:", error);
        document.getElementById("weatherResult").innerHTML =
        `

An error occurred while fetching data. Please try again
later.</p>`;
    });
}

function displayWeatherData(data) {
    const weatherHtml = `
<h2>${data.name}, ${data.sys.country}</h2>
<p>Temperature: ${data.main.temp} °C</p>
<p>Humidity: ${data.main.humidity}%</p>
<p>Conditions: ${data.weather[0].description}</p>
`;
    document.getElementById("weatherResult").innerHTML = weatherHtml;
}
</script>
</body>
</html>


```

**Output:**

## Weather App

Get Weather

### Mira Road, IN

Temperature: 27.97 °C

Humidity: 47%

Conditions: clear sky