

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");

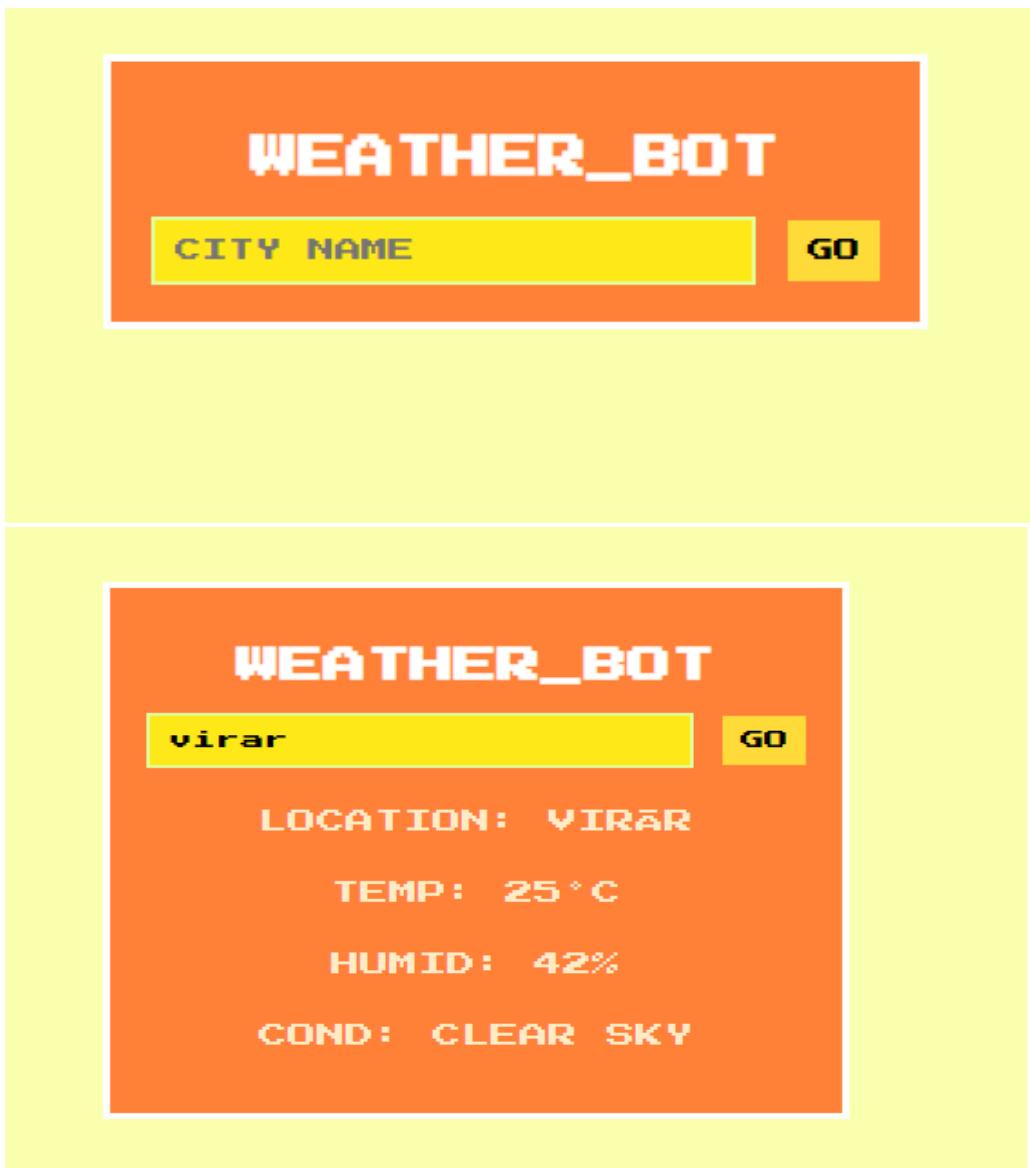
            document.getElementById('result').classList.remove('hidden');
            document.getElementById('resName').innerText = "LOCATION: " +
data.name.toUpperCase();
            document.getElementById('resTemp').innerText = Math.round(data.main.temp);
            document.getElementById('resHum').innerText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

</script>
```

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

Output:



The image shows two screenshots of a web-based weather application. The top screenshot displays a simple form with an orange header containing the text "WEATHER_BOT". Below the header is a yellow input field labeled "CITY NAME" and a yellow "GO" button. The bottom screenshot shows the results of a search for "virar". It features the same orange header and yellow input field. Below the input field, the word "virar" is displayed. The results section contains four lines of weather information: "LOCATION: VIRAR", "TEMP: 25 °C", "HUMID: 42%", and "COND: CLEAR SKY".