

Subject code & Name	:	CSE304 & Full Stack Development	Practical	:		Academic Year	:	2024-25
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Task - 2

Aim

Create a simple weather application that displays a hardcoded temperature for a given city. This simple weather application demonstrates basic HTML structure for user input, CSS styling for layout and appearance, and JavaScript functionality to handle user interactions and display dynamic content. It provides a foundational example of building an interactive web application using essential front-end technologies.

Technologies Used: HTML, CSS, JavaScript (ES6)

Code

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Show Weather</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container">
    <h1>Weather App</h1>
    <div class="input-group">
      <input type="text" id="name-input" placeholder="Enter City Here!">
    </div>
    <div class="input-group">
      <button id="show-btn">Show Weather</button>
    </div>
    <div id="name-display"></div>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

Style.css

```
body {
  font-family: Arial, sans-serif;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
}

.container {
  justify-content: center;
  border-radius: 8px;
  align-items: center;
  padding: 100px;
  background-color: aqua;
}

.input-group {
  margin-bottom: 20px;
  font-size: 14px;
  border-radius: 4px;
}

.input-group input[type="text"] {
  padding: 10px;
  font-size: 16px;
  border: 1px solid #ccc;
  border-radius: 5px 0 0 5px;
  outline: none;
  width: 300px;
}

.input-group button {
  padding: 10px 20px;
  font-size: 16px;
  background-color: #007bff;
  color: #fff;
  border: 1px solid #007bff;
  border-radius: 0 5px 5px 0;
  cursor: pointer;
  transition: background-color 0.3s ease;
}

.input-group button:hover {
```

```
background-color: #0056b3;
}

#name-display {
  font-size: 18px;
  color: #333;
}
```

Script.js

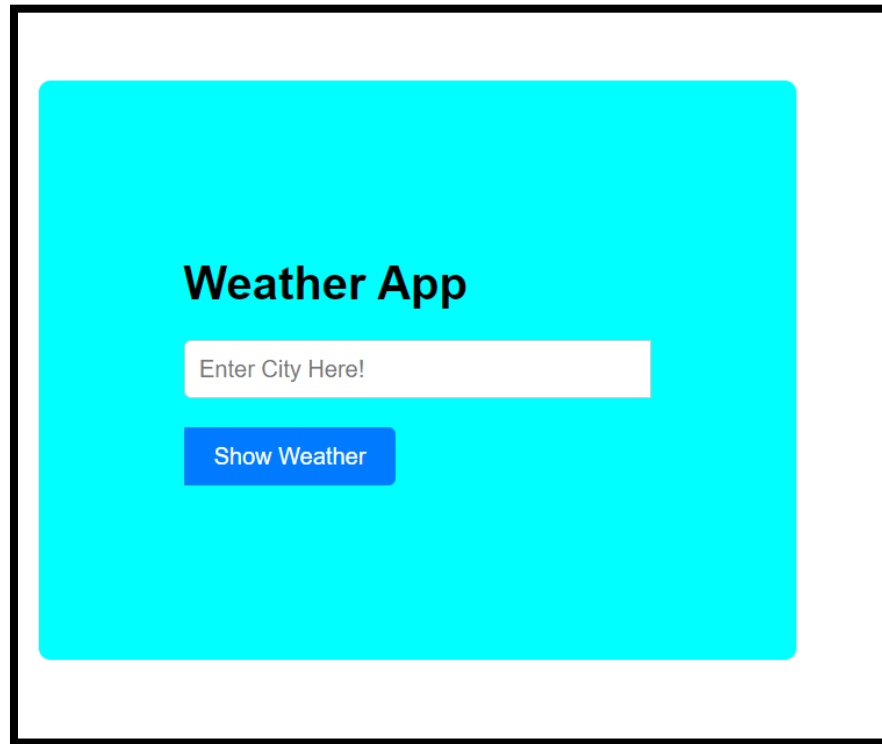
```
document.addEventListener('DOMContentLoaded', function() {
  const nameInput = document.getElementById('name-input');
  const showBtn = document.getElementById('show-btn');
  const nameDisplay = document.getElementById('name-display');

  const cityWeather = {
    'ahemdabad': { name: 'Ahmedabad', weather: 30 },
    'vadodara': { name: 'Vadodara', weather: 34 },
    'mumbai': { name: 'Mumbai', weather: 28 }
  };

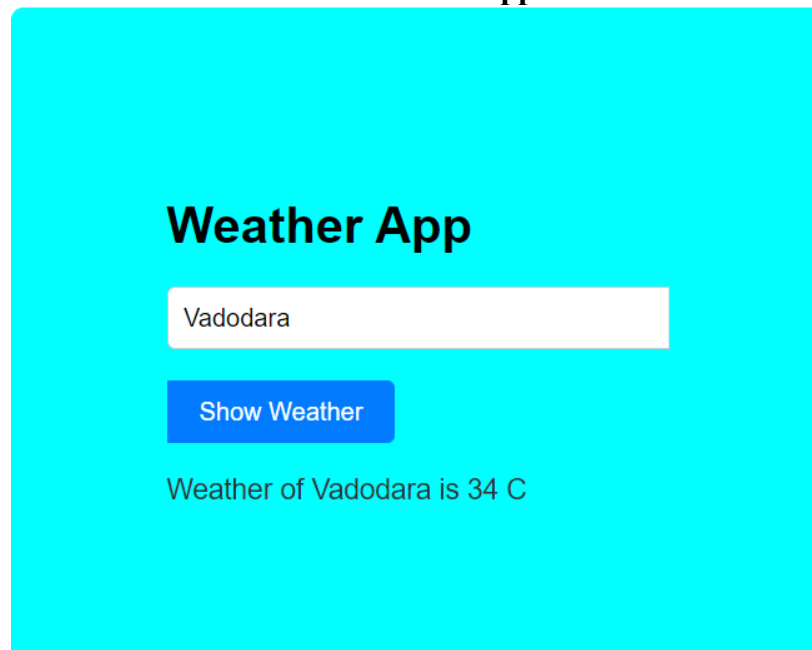
  showBtn.addEventListener('click', () => {
    const enteredCity = nameInput.value.trim().toLowerCase();

    if (enteredCity === '') {
      alert('Please enter a city name');
    } else if (cityWeather.hasOwnProperty(enteredCity)) {
      const city = cityWeather[enteredCity];
      nameDisplay.textContent = `Weather of ${city.name} is ${city.weather}`;
    } else {
      nameDisplay.textContent = 'Weather information not available for this city';
    }
  });
});
```

Output

A screenshot of a web application titled "Weather App". It features a light blue background with rounded corners. At the top, the title "Weather App" is displayed in a bold, black font. Below the title is a white input field with the placeholder text "Enter City Here!". Underneath the input field is a blue button with the text "Show Weather" in white.

1.1 Weather App

A screenshot of the same "Weather App" showing the result of a search. The title "Weather App" is at the top. The input field now contains the text "Vadodara". Below the input field is the same blue "Show Weather" button. Underneath the button, the text "Weather of Vadodara is 34 C" is displayed in a black font.

1.2 Weather showcase of the City

Signature :