

```
<!DOCTYPE html>
<html>
<head>
  <title>Weather Forecast Application</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Weather Forecast</h1>
  </header>
  <main>
    <div class="search-container">
      <input type="text" id="locationInput" placeholder="Enter location">
      <button id="searchButton">Search</button>
    </div>
    <div id="currentWeather"></div>
    <div id="forecast"></div>
  </main>
  <footer>
    <p>Weather Forecast Application &copy; 2023</p>
  </footer>
  <script src="app.js"></script>
</body>
</html>
```

Css style

```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
}
```

```
header {
  background-color: #333;
  color: #fff;
  padding: 20px;
}
```

```
h1 {
  margin: 0;
}
```

```

main {
  padding: 20px;
}

.search-container {
  display: flex;
  justify-content: center;
  align-items: center;
  margin-bottom: 20px;
}

#locationInput {
  padding: 10px;
  border-radius: 5px;
  border: 1px solid #ccc;
  margin-right: 10px;
}

#searchButton {
  padding: 10px 20px;
  background-color: #4CAF50;
  color: #fff;
  border: none;
  border-radius: 5px;
  cursor: pointer;
}

#currentWeather, #forecast {
  margin-bottom: 20px;
}

footer {
  background-color: #333;
  color: #fff;
  padding: 20px;
  text-align: center;
}

```

Javascript

```

const apiKey = 'YOUR_API_KEY'; // Replace with your actual API key

document.getElementById('searchButton').addEventListener('click', () => {
  const locationInput = document.getElementById('locationInput').value;

```

```
fetch(`https://api.openweathermap.org/data/2.5/weather?q=${locationInput}&appid=${apiKey}&units=metric`)
```

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

```
  .then(data => {
```

```
    displayCurrentWeather(data);
```

```
fetch(`https://api.openweathermap.org/data/2.5/forecast?q=${locationInput}&appid=${apiKey}&units=metric`)
```

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

```
  .then(data => {
```

```
    displayForecast(data);
```

```
  })
```

```
  .catch(error => {
```

```
    console.log(error);
```

```
    displayError('Failed to fetch forecast data.');
```

```
  });
```

```
})
```

```
  .catch(error => {
```

```
    console.log(error);
```

```
    displayError('Failed to fetch current weather data.');
```

```
  });
```

```
});
```

```
function displayCurrentWeather(data) {
```

```
  const currentWeatherContainer = document.getElementById('currentWeather');
```

```
  currentWeatherContainer.innerHTML = `
```

```
    <h2>${data.name}</h2>
```

```
    <p>Temperature: ${data.main.temp}°C</p>
```

```
    <p>Humidity: ${data.main.humidity}%</p>
```

```
    <p>Wind Speed: ${data.wind.speed} m/s</p>
```

```
    <p>Weather Description: ${data.weather[0].description}</p>
```

```
  `;
```

```
}
```

```
function displayForecast(data) {
```

```
  const forecastContainer = document.getElementById('forecast');
```

```
  forecastContainer.innerHTML = '';
```

```
  for (let i = 0; i < data.list.length; i += 8) {
```

```
    const forecastItem = data.list[i];
```

```
    const date = new Date(forecastItem.dt * 1000);
```

```
    const dateString = `${date.getFullYear()}-${date.getMonth() + 1}-${date.getDate()}`;
```

```
    const forecastItemHtml = `
```

```
      <div class="forecast-item">
```

```
        <p>Date: ${dateString}</p>
        <p>Temperature: ${forecastItem.main.temp}°C</p>
        <p>Humidity: ${forecastItem.main.humidity}%</p>
        <p>Weather Description: ${forecastItem.weather[0].description}</p>
    </div>
    `;
    forecastContainer.innerHTML += forecastItemHtml;
}
}

function displayError(message) {
    const currentWeatherContainer = document.getElementById('currentWeather');
    currentWeatherContainer.innerHTML = `<p class="error-message">${message}</p>`;
}
```