

# Weather App Project

This project is a simple **Weather Application** developed using **HTML, CSS, and JavaScript**. The app fetches real-time weather data from the **OpenWeather API** and displays it in a clean, user-friendly interface. This project was developed as part of an internship to demonstrate frontend development and API integration skills.

## Features:

- Search weather details by city name
- Displays current temperature, humidity, and weather condition
- Responsive UI design using CSS
- API integration using JavaScript Fetch API
- Error handling for invalid city inputs

## Technologies Used:

**HTML** - for structuring the application **CSS** - for styling and making the app visually appealing  
**JavaScript** - for logic, API calls, and DOM manipulation **OpenWeather API** - for fetching real-time weather data

## Project Workflow:

The user enters the name of a city in the input field and clicks the search button. A JavaScript function sends a request to the OpenWeather API and retrieves weather information in JSON format. The app extracts details like temperature, humidity, and condition, and displays them dynamically on the web page. If the city name is invalid, an error message is shown.

## Conclusion:

This project helped in strengthening knowledge of web technologies and API integration. It demonstrates how frontend applications can interact with external APIs to deliver real-time information to users in a simple and elegant manner.