

README - Weather App Project

This Weather App is a simple web-based application created as part of a college project. Its main purpose is to fetch real-time weather information for any city entered by the user. The data is taken from WeatherAPI, and the app displays the temperature, weather condition, and an icon representing the current weather.

1. Project Overview The app allows users to type the name of a city and instantly check the weather for that location. It is designed to be lightweight and easy to understand, with a clean interface and responsive layout.

2. How the App Works - The user enters a city name in the input box. - When the Search button is clicked, the app sends a request to the WeatherAPI service. - If the city name is valid, the app shows the temperature, condition, and weather icon. - If the city is not found or an error occurs, a message is shown on the screen.

3. Technologies Used - HTML: Used to structure the layout. - CSS: Added styling for the container, input box, and overall design. - JavaScript: Handles the API call, processes the data, and updates the webpage.

4. API Used The app uses the WeatherAPI service to fetch real-time weather details. A unique API key is used in the request to access the data.

5. Features - Clean and simple user interface. - Real-time weather updates. - Error handling for invalid inputs. - Weather icons based on current conditions.

6. File Details - The HTML file contains the structure and script. - CSS is written inside a style tag. - JavaScript code is included within the same HTML file for simplicity.

7. How to Use 1. Open the HTML file in any browser. 2. Enter a city name in the input box. 3. Click on the Search button. 4. View the weather details displayed below.

8. Purpose of the Project This project demonstrates the use of APIs in web development and shows how JavaScript can be used to fetch and display live data. It is suitable for learning and experimenting with real-time web applications.