

Weather App Project Report

Introduction

The Weather App is a web-based application designed to provide real-time weather information for any city around the world. It utilizes HTML, CSS, and JavaScript to create an interactive and user-friendly interface.

Technologies Used

HTML5 for structuring the web page

CSS3 for styling and layout

JavaScript for dynamic content and interaction

OpenWeatherMap API for fetching weather data

Features

1] Search Functionality:

Users can search for the weather of any city by typing in the search box and pressing Enter.

2] Current Weather Display:

The app displays the current weather information, including temperature, weather condition, and a high/low temperature range.

3] Date and Location:

The location (city and country) and current date are dynamically updated based on the user's search.

Code Overview

HTML Structure

The HTML file defines the basic structure of the web page, including a search box and sections for location and current weather.

CSS Styling

External styles are applied using a separate CSS file (weather.css) to enhance the visual appeal of the app.

JavaScript Logic

The JavaScript file (weather.js) contains code for handling user input, fetching weather data from the OpenWeatherMap API, and dynamically updating the UI.

API Integration

The app integrates with the OpenWeatherMap API to retrieve weather data. The API key and base URL are stored in the api object in the JavaScript file.

Usage

Enter the desired city in the search box.

Press Enter to fetch and display the current weather information.

Conclusion

The Weather App provides a simple yet effective way for users to obtain current weather information for any city. The use of modern web technologies and integration with the OpenWeatherMap API enhances the app's functionality and reliability.