

Weather App

Real-Time Weather Information Application

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Project Overview

- **Problem Statement:**
- The need for an interactive and visually engaging platform to access real-time weather data.

- **Solution:**
- A Weather App that provides current temperature, weather conditions, and more based on user input or current location.



Features

01. Location-based weather search

02. Temperature display with Celsius/Fahrenheit toggle

03. Real-time weather data: temperature, wind speed, humidity, visibility, sunrise, and sunset times

05. Minimalistic design with gradient backgrounds and smooth animations

04. Error handling for invalid inputs and location access

Techniques Used

- HTML/CSS

Frontend:

- HTML: Page structure and layout
- CSS: Styling with gradient backgrounds, glassmorphism, and modern typography
- JavaScript: Functionality for data fetching, interactivity, and error handling

API:

- OpenWeatherMap API: To fetch real-time weather data based on city name or coordinates



Implementation

Structure:

- HTML: Sections for search, weather display, and error handling
- CSS: Gradient and modern UI styling
- JavaScript: Data fetching with `fetch()`, dynamic updates, and Celsius/Fahrenheit toggle

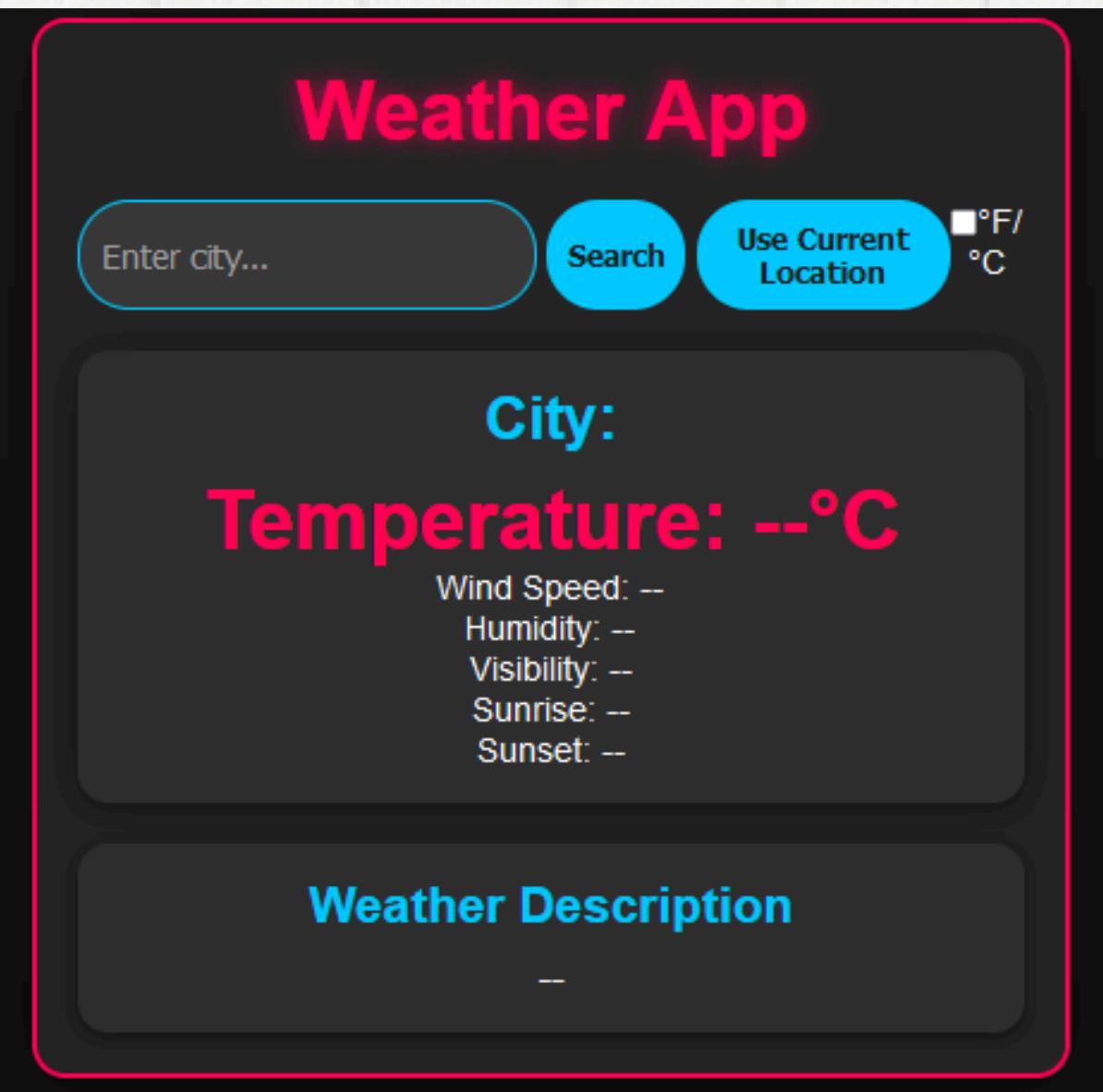
• Key Functionalities:

- Location-based data fetching
- Toggle for temperature units
- Display and update weather data dynamically

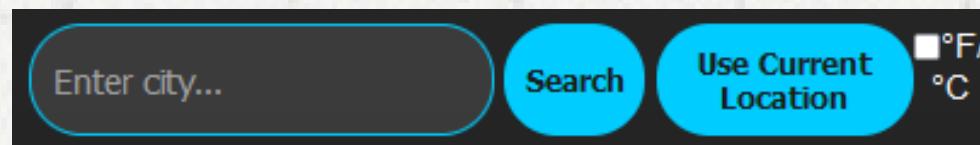


Demo Screenshots

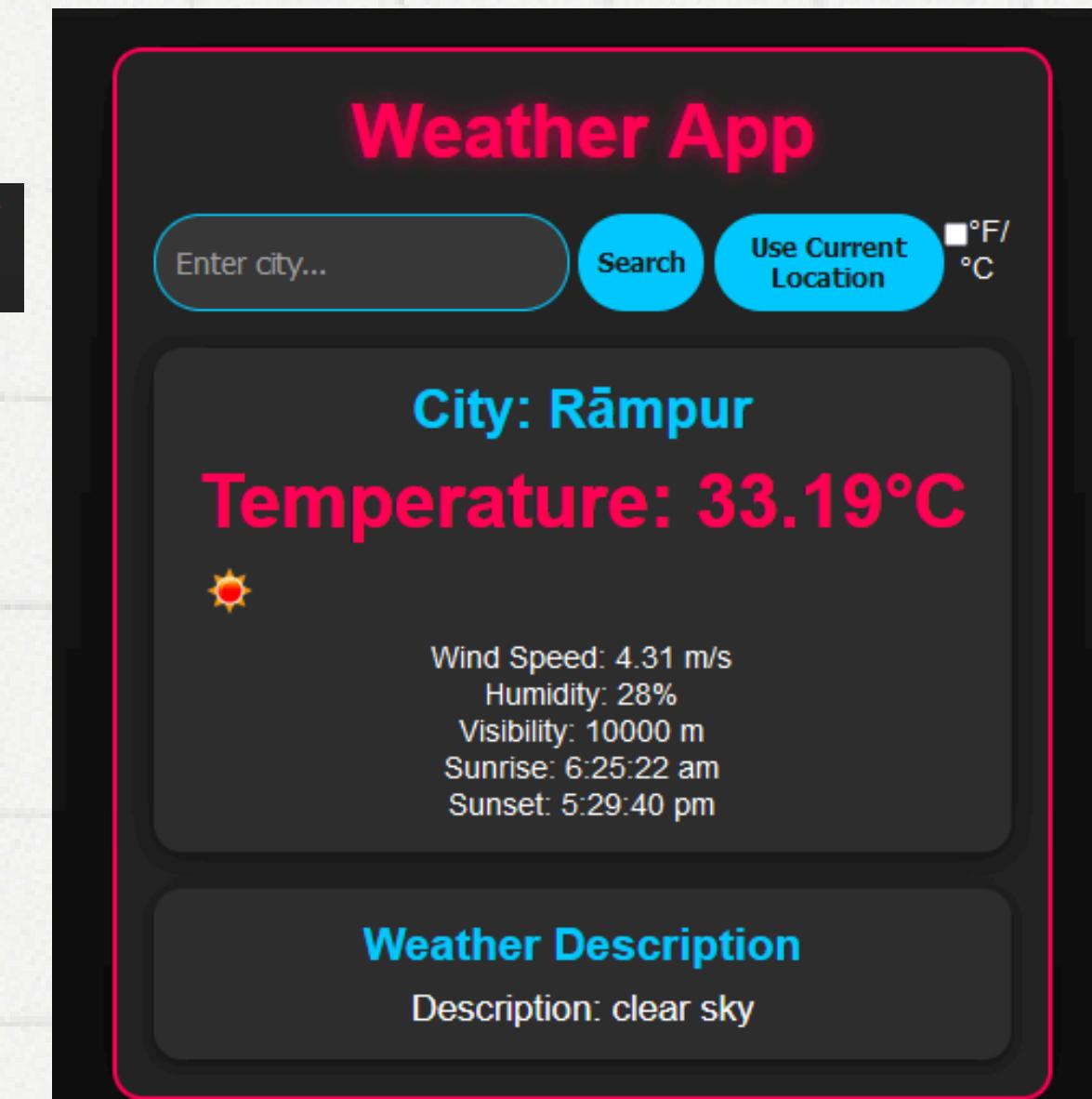
Home Page:



Search Functionality:



Location Access



Conclusion

Summary:

- This Weather App combines simplicity and interactivity, providing users with real-time weather information with ease.
- The project enhances user experience through a clean interface and reliable API integration.



**Thank you
very much!**