



Weather Application

REALTIME WEATHER FORECAST

Developed using HTML ,CSS,
JavaScript and open weather map
api



Introduction

- 1) Weather apps are essential for daily life to plan travel, farming, outdoor activities, etc.
- 2) This app provides instant weather details for any city in the world.
- 3) Design with a focus on speed, accuracy and simplicity.

Objective

- ▶ To develop a web-based weather application.
- ▶ To fetch live data using API integration.
- ▶ To create an intuitive and responsive interface.
- ▶ To handle incorrect inputs gracefully.

Features

- ▶ Real time weather update : temperature , humidity and wind speed.
- ▶ Search by city name : work worldwide
- ▶ Weather icon:visual representation of weather conditions
- ▶ Error handling : alert For wrong city name
- ▶ Mobile friendly: work on both mobile and Desktop

Tools and technologies

- ▶ Front hand: HTML for structure ,CSS for style, JavaScript for functionality
- ▶ API: OpenWeather map api
- ▶ Editor: Vs code for coding
- ▶ Hosting:Github

System Architecture

- ▶ **Flow chart:** User input -> javascript -> Api request -> Api Response->
- ▶ Data display on ui

Challenges faced

- ▶ Handling Invalid api key
- ▶ Making mobile friendly
- ▶ Displaying data instantly without refreshing page

Conclusion

- ▶ Successfully created a Functional and responsive Weather app.
- ▶ Learn about Api integration and error handling.
- ▶ Improve frontannd development skills.