

Weather App Project Report

Project Title

Weather App

Role

Project Lead & Developer

Team Size

3 Members

Technologies Used

JavaScript (DOM manipulation)

HTML & CSS

SASS (SCSS for styling)

Local Storage

GitHub

Project Type

Responsive Web Application

Duration

19.5 hours

Timeline

January 14th, 2025 January 29th, 2025

Project Description

The Weather App is a dynamic, real-time weather forecasting web application developed as part of a team collaboration. The core functionality revolves around fetching weather data using a public weather API and displaying it in a clean, intuitive interface.

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As the Project Lead & Developer, I led the development efforts, task delegation, and code review while actively contributing to both front-end logic and styling.

Key Features

- Real-time weather data fetching using API
- Location-based search with auto-suggestions
- Local Storage integration to preserve user preferences
- Mobile-first responsive design
- Stylish UI/UX with custom SASS styling
- Tested across modern browsers and devices

Technical Responsibilities

- Integrated weather API and handled JSON response rendering
- Developed modular JavaScript components for DOM updates
- Implemented state persistence using Local Storage
- Designed responsive layout using CSS Grid and Flexbox with SASS
- Managed version control with Git and GitHub, and handled pull requests

Challenges Faced

- Ensuring consistent UI across devices and screen sizes
- Handling API errors and user experience during offline states
- Optimizing SASS structure and compilation for better maintainability

Outcome

The application successfully met all intended goals. It provides a fast and interactive way for users to get live weather updates with a pleasant user interface. It served as a valuable exercise in real-world API integration, responsive design, and front-end architecture.

Links & Resources

Weather App Project Report

- GitHub Repository: (Insert link here)
- Project Documentation: (Insert link here)