

Weather Forecast Web App (HTML, CSS & JavaScript)

Project Overview

This document explains how to build a Weather Forecast Web Application using plain HTML, CSS, and JavaScript. It is designed specifically for fresher joinees to understand real-world JavaScript concepts without relying on frameworks like React.

Key Features

- City search functionality
- Current weather display
- 5-day weather forecast
- Navigation between screens
- Error handling and responsive UI
- Favorite cities using localStorage

JavaScript Concepts Covered

- DOM Manipulation
- Event Handling
- Fetch API and async/await
- Error handling using try/catch
- State management using JavaScript objects
- localStorage usage

Project Architecture

The application is structured using multiple JavaScript files to maintain separation of concerns. You need to use a component-based architecture.

- API logic is separated.
- UI rendering is handled independently.
- Application state is centrally managed.

Why Plain JavaScript?

Using plain JavaScript helps freshers understand how modern frameworks like React work internally. Once the fundamentals are clear, learning frameworks becomes significantly easier.

Learning Outcome

- Understand real-world API integration.
- Be confident with core JavaScript concepts.
- Know how single-page applications work
- Be prepared to transition into React or other frameworks