Weather App – Project Documentation

Page Creation & Functionality

- A responsive weather page is created using React components.
- Weather details such as temperature, humidity, wind speed, weather conditions, latitude, longitude and icons are displayed dynamically.
- State management is handled using React Hooks (useState, useEffect).

API Integration:

- The application integrates a weather service API (such as OpenWeatherMap) using RESTful APIs.
- Dynamic API parameters (city name, units, API key) are passed based on user input.
- Error handling is implemented for invalid locations and network issues.
- Loading states are used to improve user experience during data fetching.

Features:

- Real-time weather updates
- City-based search functionality
- Clean and responsive UI
- Efficient API data handling
- Fast and seamless user experience

Tools & Technologies:

- Front End: HTML, CSS, JavaScript, React
- Tools: Visual Studio, Postman
- GitHub
- Npm – Package Management