



COLLEGE CODE : 9623

COLLEGE NAME : Amrita College of Engineering And Technology

DEPARTMENT : Computer Science and Engineering

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ROLL NO : 16

DATE : 17-10-2025

Completed the project named as

Phase 5

PROJECT NAME : LIVE WEATHER DASHBOARD

SUBMITTED BY,

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Phase 5

1. Project Overview

The Live Weather Dashboard is a web-based application that allows users to check real-time weather data for any city worldwide. It leverages the OpenWeatherMap API to fetch temperature, humidity, wind speed, and weather descriptions dynamically. The user interface is responsive and visually appealing, featuring animated backgrounds that change according to weather conditions such as clear skies, clouds, rain, or snow.

2. Project Report

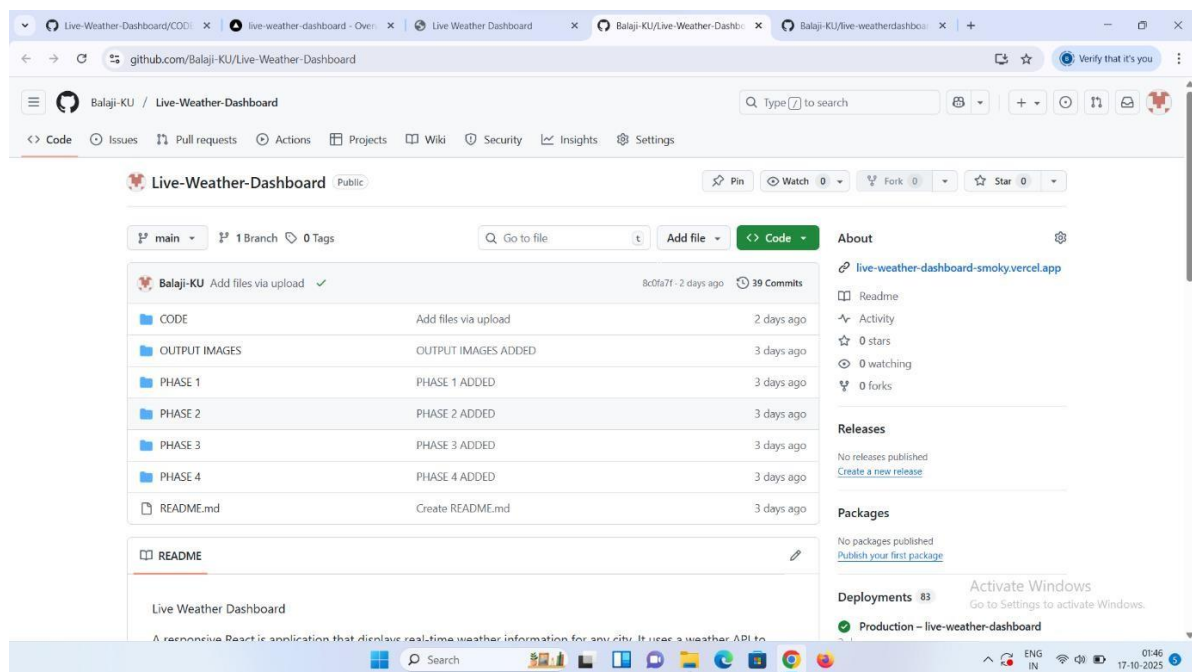
The project is built using HTML, CSS, and JavaScript. It integrates the OpenWeatherMap API for live data retrieval.

When a user enters a city name and clicks the 'Get Weather' button, the application sends an asynchronous API request and displays the current weather information, including icons representing the weather type.

Key Features:

- Dynamic UI with responsive design.
- Animated background transitions based on weather type.
- Error handling for invalid or empty city inputs.
- Real-time temperature, humidity, and wind data display.

3. Screenshots



Live-Weather-Dashboard/ at m

github.com/Balaji-KU/Live-Weather-Dashboard/tree/main

Verify that it's you

Files

main

Go to file

CODE

OUTPUT IMAGES

op1.png

op2.png

PHASE 1

PHASE 2

PHASE 3

PHASE 4

PHASE 5

README.md

Live-Weather-Dashboard /

Balaji-KU Delete SCREEN SHOT directory ✓ 6b7e85d - now History

Name	Last commit message	Last commit date
CODE	Add files via upload	2 days ago
OUTPUT IMAGES	OUTPUT IMAGES ADDED	3 days ago
PHASE 1	PHASE 1 ADDED	3 days ago
PHASE 2	PHASE 2 ADDED	3 days ago
PHASE 3	PHASE 3 ADDED	3 days ago
PHASE 4	PHASE 4 ADDED	3 days ago
PHASE 5	Create a	1 hour ago
README.md	Create README.md	3 days ago

README.md

Live Weather Dashboard

A responsive React.js application that displays real-time weather information for any city. It uses a weather API to fetch live data and shows it through weather cards and forecast charts.

Features

1 cm of rain Saturday

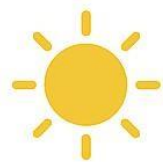
Search

ENG IN

02:54 17-10-2025

Weather Dashboard

Chennai, IN



32° °C

Clear Sky

💧 Humidity: 48% 🌬 Wind: 10 km/h

📶 Pressure: 1012 hPa

5-Day Forecast



33°C



31°C



29°C



30°C



28°C



Temperature Forecast

Live Weather Dashboard

Search

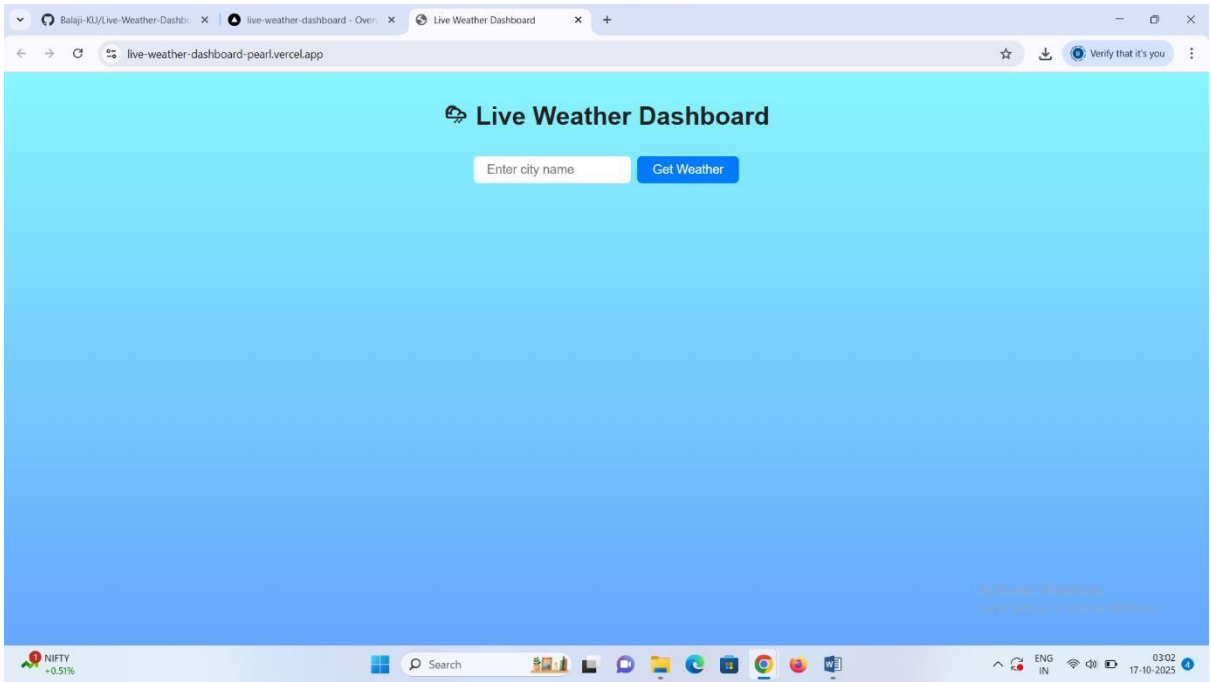
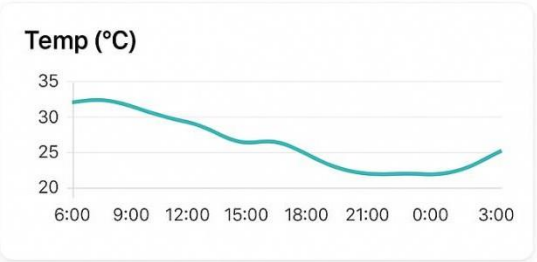
 **Chennai, IN**

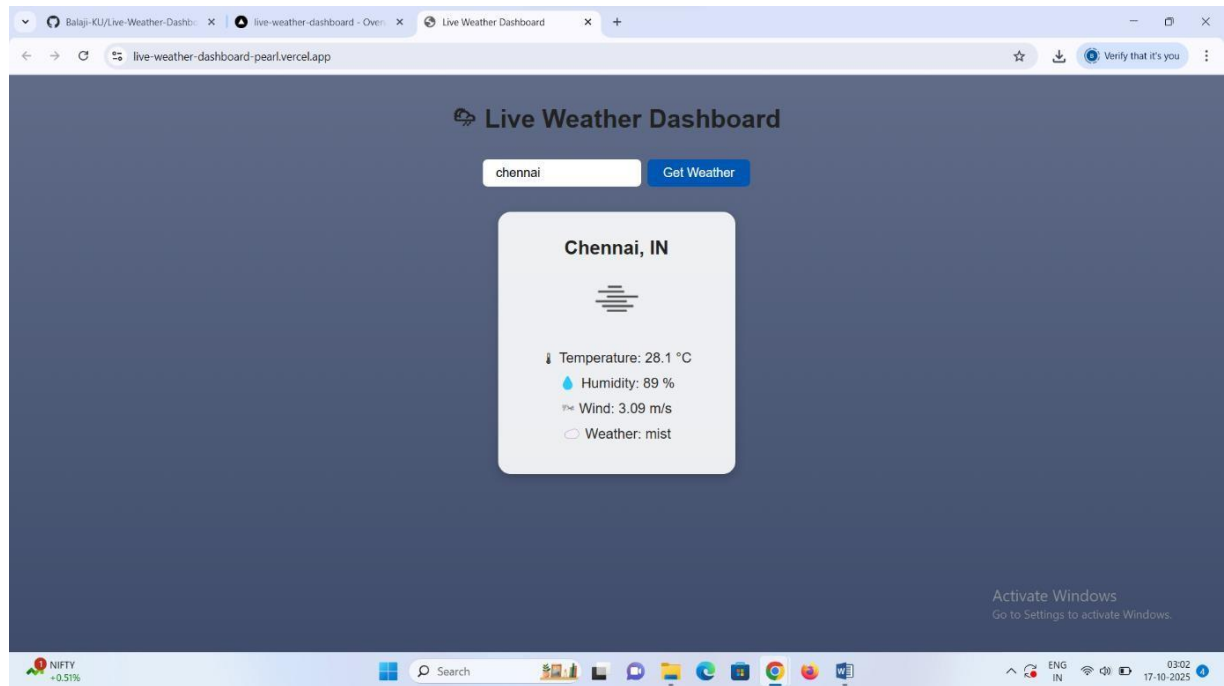
Temperature: 31.2 °C

Humidity: 74 %

Wind: 3.8 m/s

Weather: clear sky





4.Challenges & Solutions

Challenges Faced:

1. Handling API errors and invalid city inputs.
2. Designing responsive layouts for both desktop and mobile screens.
3. Managing dynamic background transitions smoothly.

Solutions Implemented:

- Added JavaScript error handling for invalid API responses.
- Utilized CSS Flexbox for responsive design.
- Created a background mapping function to dynamically adjust the gradient based on weather type

5.GitHub Link

Github repository link : <https://github.com/ananthan18-ai/Live-Weather-Dashboard->

Deploy link : <https://live-weather-dashboard-pearl.vercel.app/>