COLLEGE CODE : 9623

COLLEGE NAME : Amrita College of Engineering And Technology

DEPARTMENT : Computer Science and Engineering

STUDENT NM-ID : F0F3EBA66EADA4782A846E244BC964C3

ROLL NO : 13

DATE : 17-10-2025

Completed the project named as

Phase 5

PROJECT NAME : LIVE WEATHER DASHBOARD

SUBMITTED BY,

NAME :Ajay. C

MOBILE NO : 9597354838

Phase 5

1. Project Overview

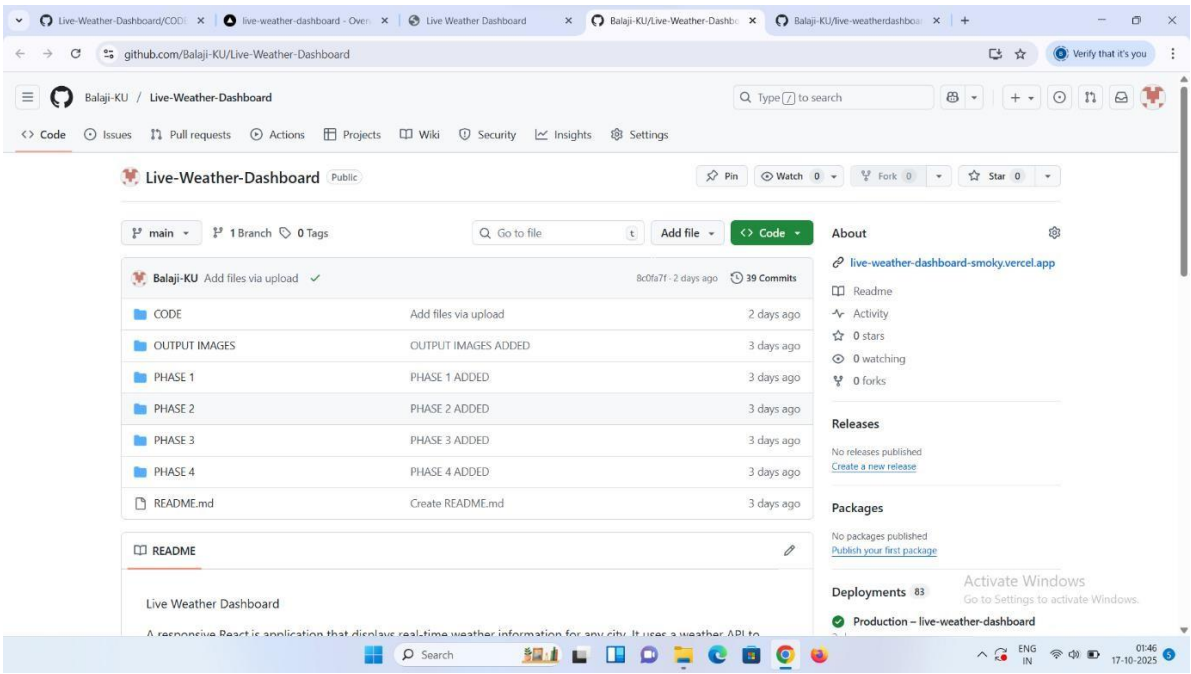
The Live Weather Dashboard is a web-based application that allows users to check real- time weather data for any city worldwide. It leverages the OpenWeatherMap API to
fetch temperature, humidity, wind speed, and weather descriptions dynamically. The user interface is responsive and visually appealing,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

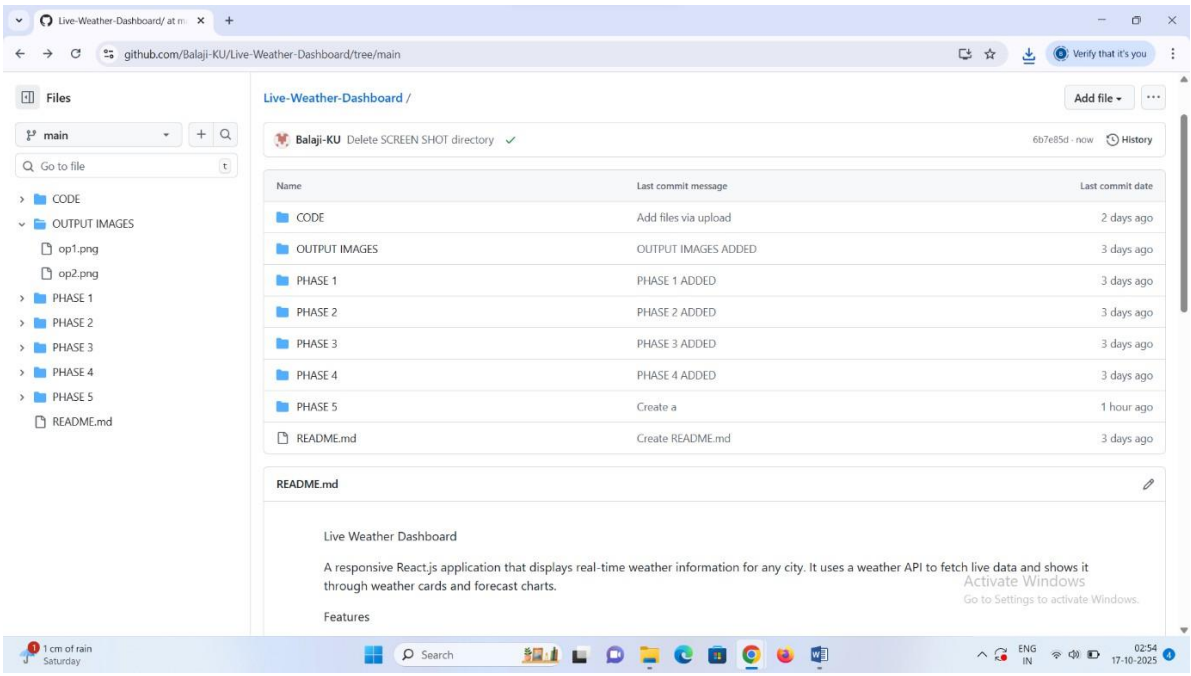
2. Project Report

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 /
Add file
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
Activate Windows
Go to Settings to activate Windows.
1 cm of rain
Saturday
Search
ENG
IN
02:54
17-10-2025

Weather Dashboard

Search City Search

Chennai, IN

32° °C

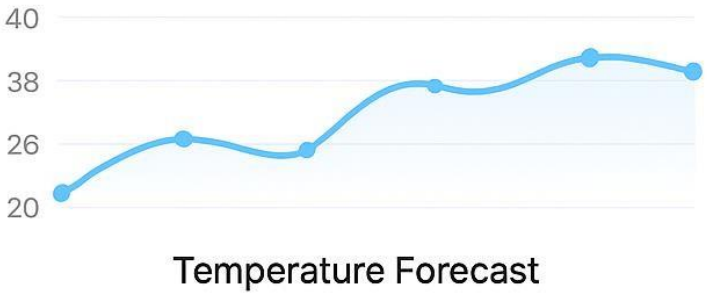
Clear Sky

Hurnidity. 48% Wind: **10 km/h**

Pressure: **1012 hPa**

5-Day Forecast

33°C	31°C	29°C	30°C	28°C



Temperature Forecast

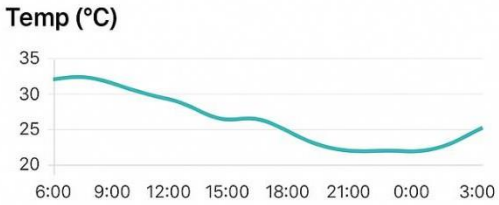
Live Weather Dashboard

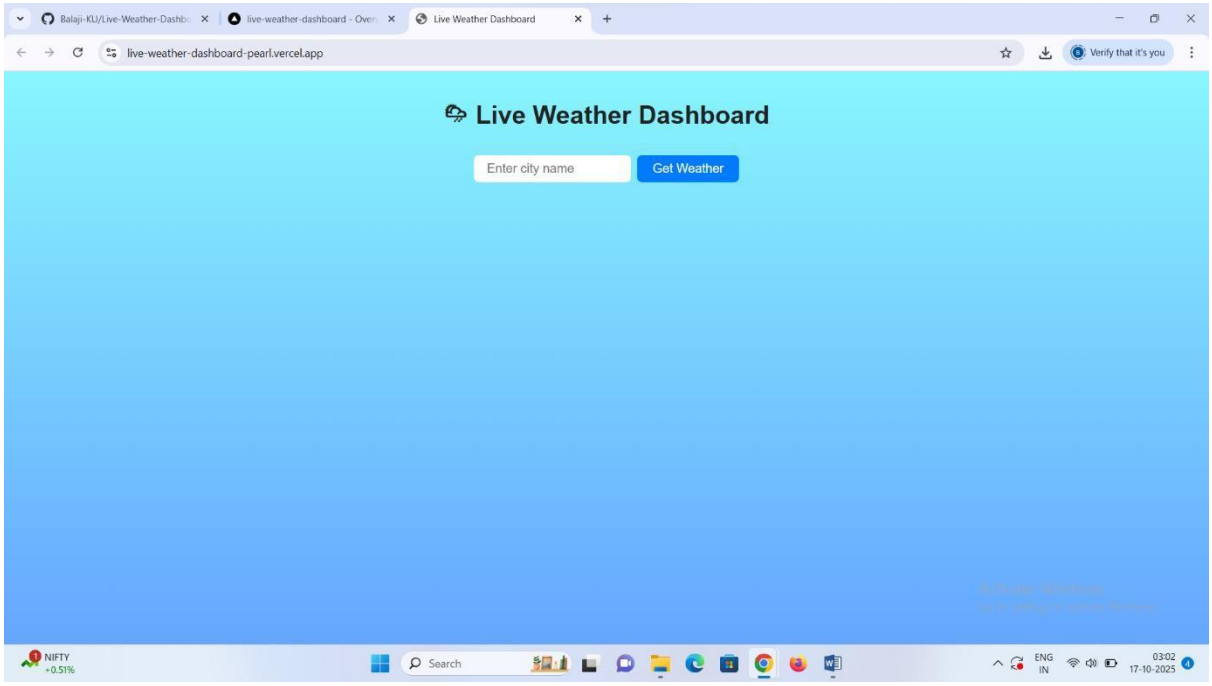
Chennai

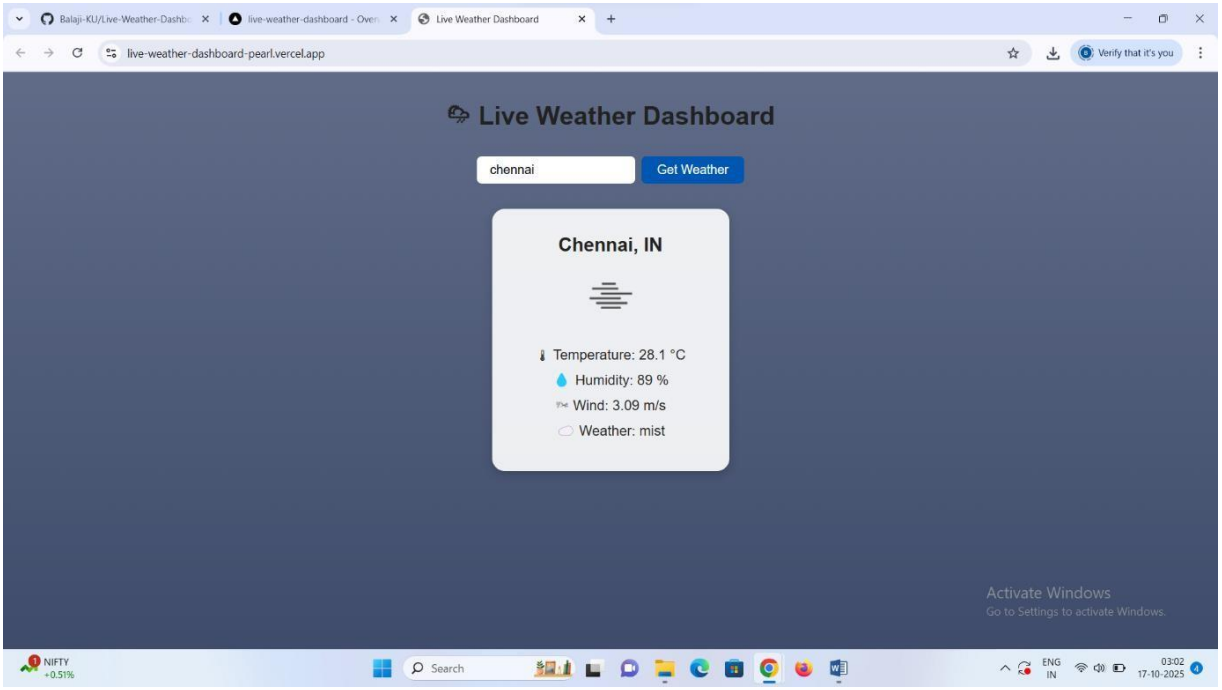
Search

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/ajayc9677-source/Live-Weather-Dashboard

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