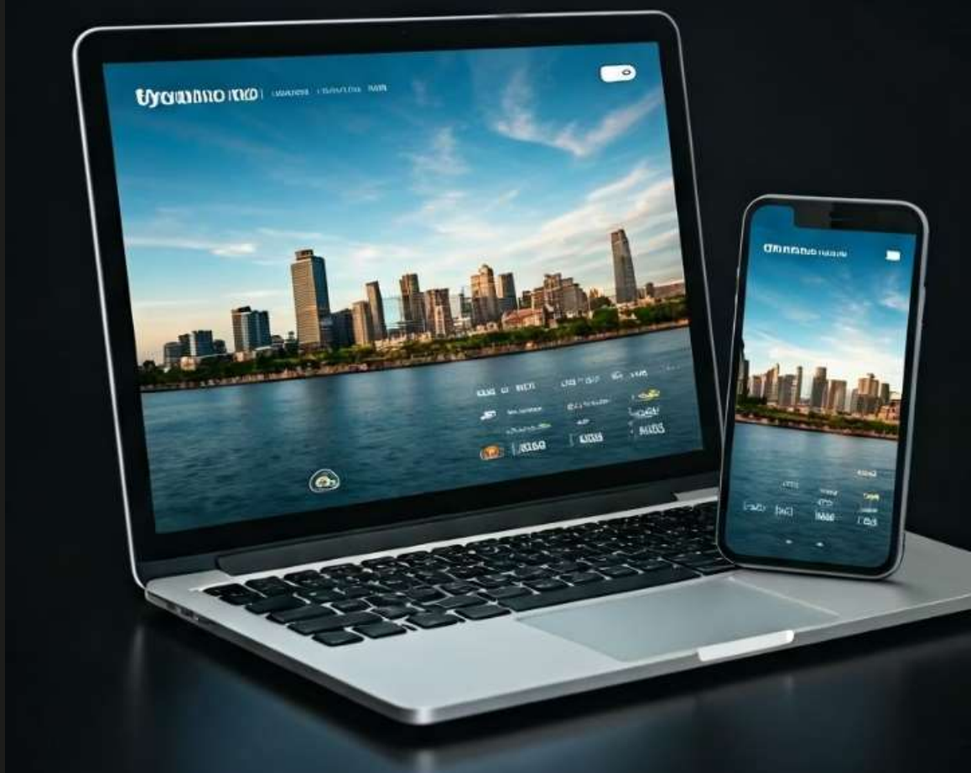
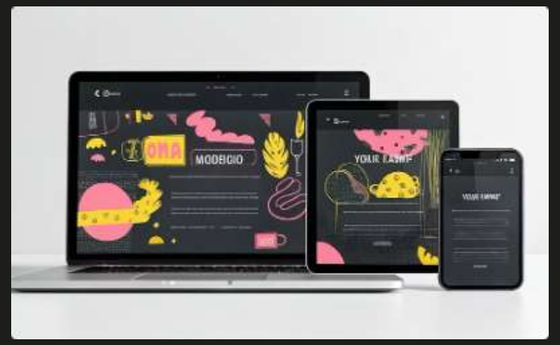
MausamIQ – Indian Cities Weather Forecast Website

A real-time weather and air quality tracking website built for Indian cities.

Team Members: Ishu Garg (Leader),
Vidhish (Project Manager & Frontend),
Ayush (Frontend)



Project Overview



Responsive Design

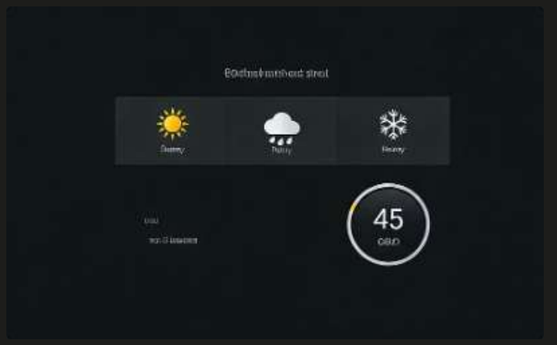
User-friendly interface that adapts to all devices

Focused on Indian Cities

Tailored weather forecasts specifically for cities across India

Real-time Updates

Constantly refreshed data from reliable weather APIs

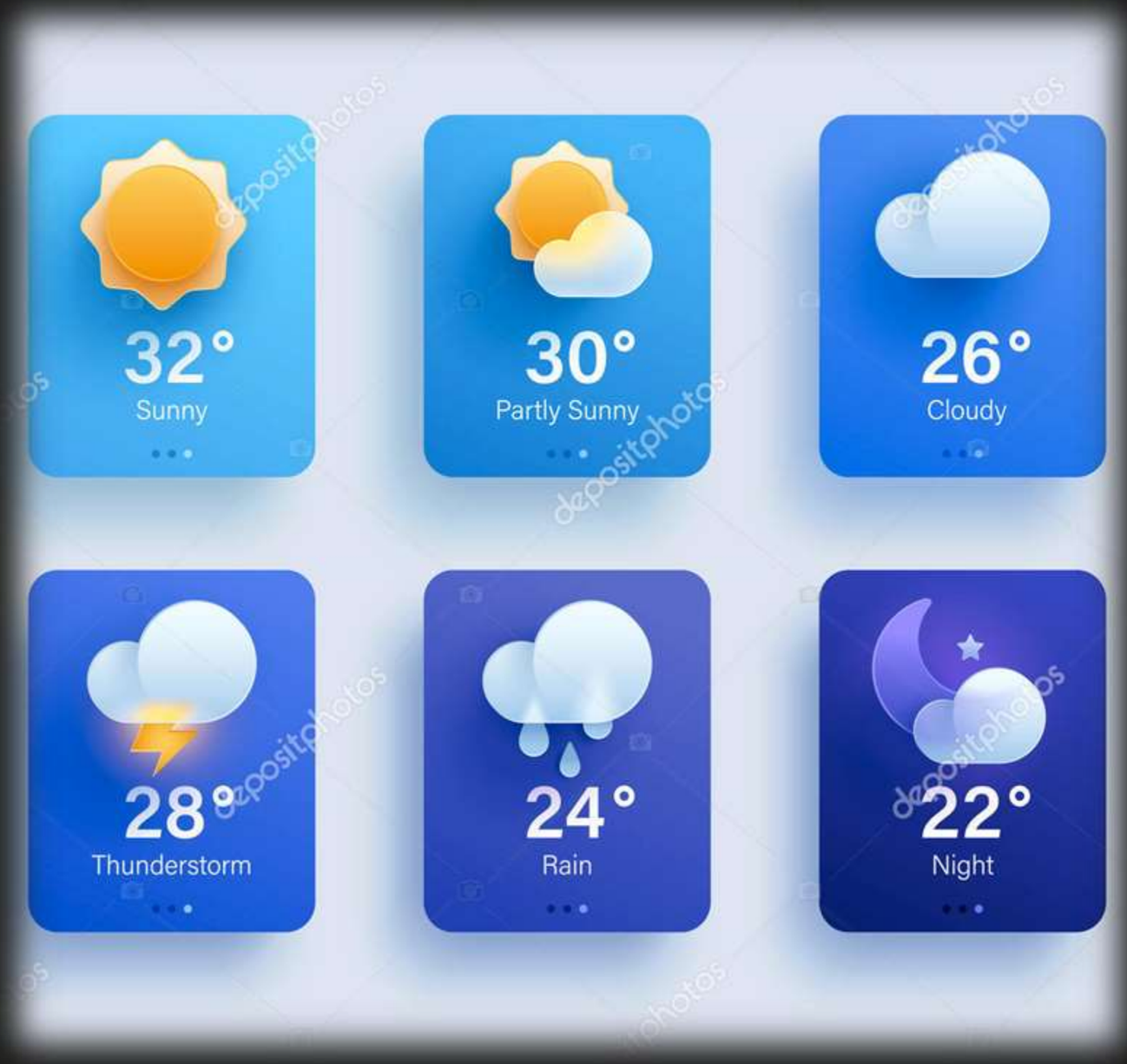


Weather & Air Quality

Displays detailed weather and Air Quality Index information

Project Objectives

- Accurate real-time weather data
- 5-day forecasts for planning
- Track Air Quality Index (AQI)
- Visually appealing, responsive frontend



Key Features

- Real-time current weather data
- 5-day weather forecast
- Real-time AQI display
- Humidity & wind speed details
- Sunrise & sunset timings
- Fully responsive design
- 💻 Clean, interactive UI

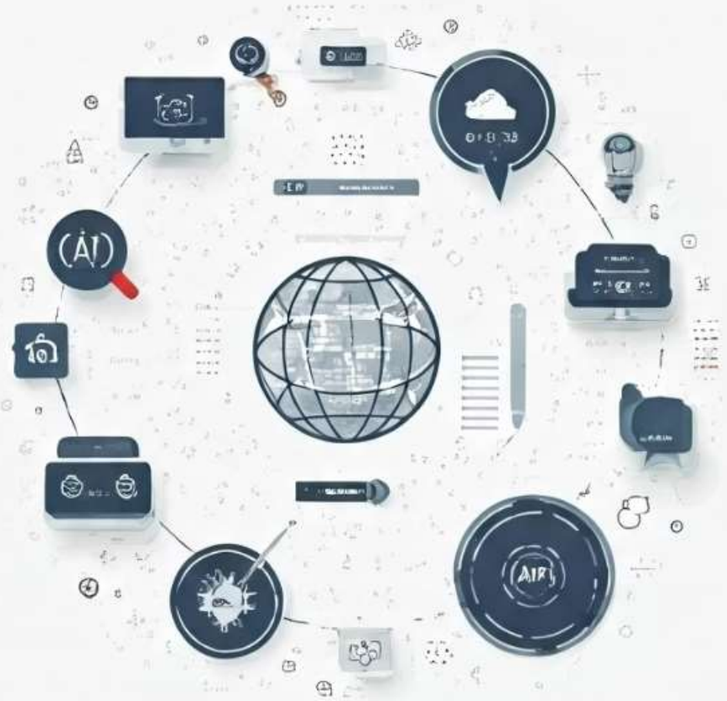
Technologies Used

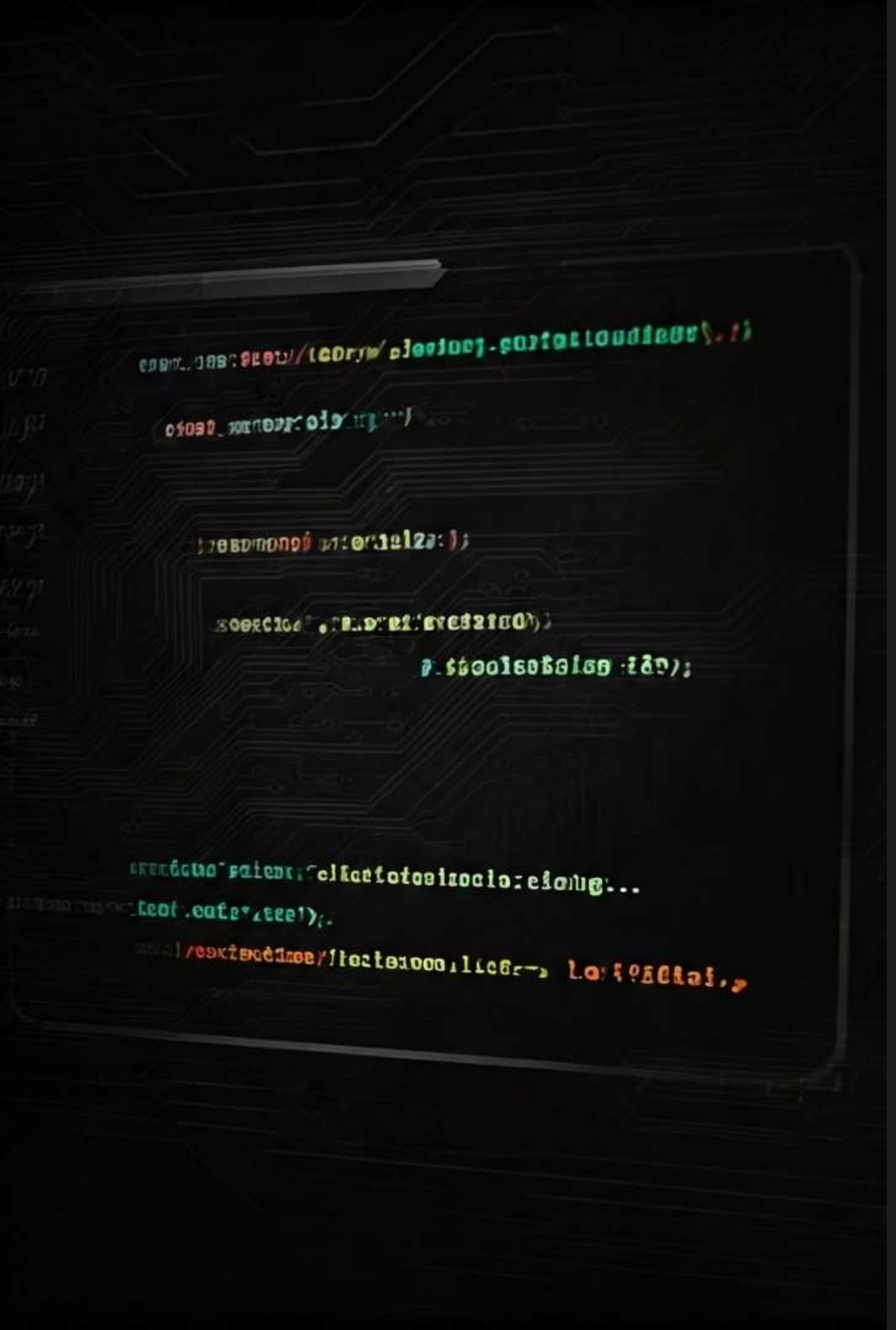
Frontend stack

- HTML for structure
- CSS for styling & responsiveness
- JavaScript for logic & interactivity

APIs

- OpenWeatherMap: weather & forecasts
- AQICN: Air Quality Index data



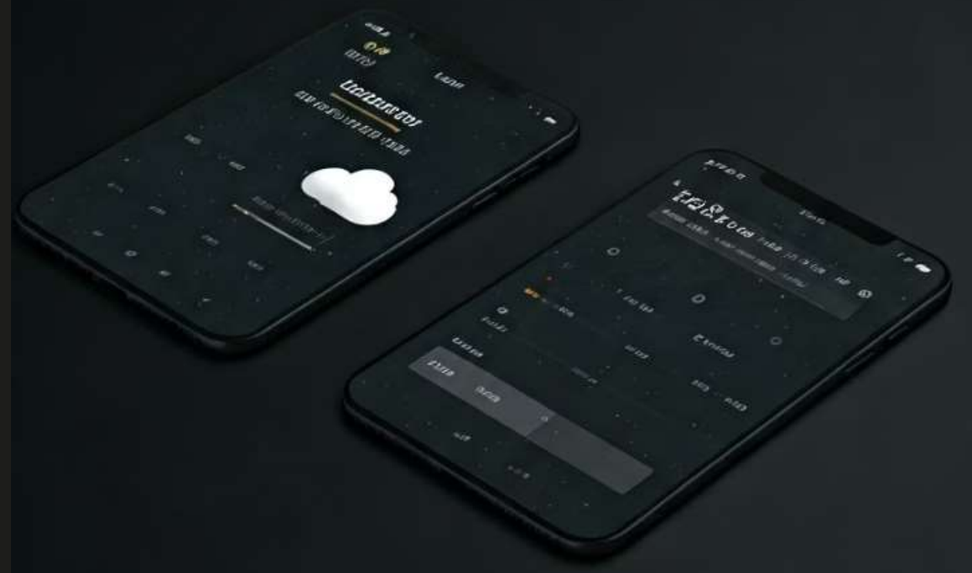


API Integration

- fetch() used to retrieve API data dynamically
- City selection triggers data rendering instantly
- API response parsed and displayed on UI
- Error & loading state handling implemented

Frontend Design

- Clean, modern UI layout
- Fully responsive for devices
- Weather icons & colour-coded AQI
- User-friendly, minimal navigation



How It Works

1. Select city
2. Fetch real-time data
3. Display data
   - Temperature, humidity, wind speed
   - Sunrise & sunset
   - AQI and category
   - 5-day forecast with icons

Team Roles & Contributions

Ishu Garg - Team Leader

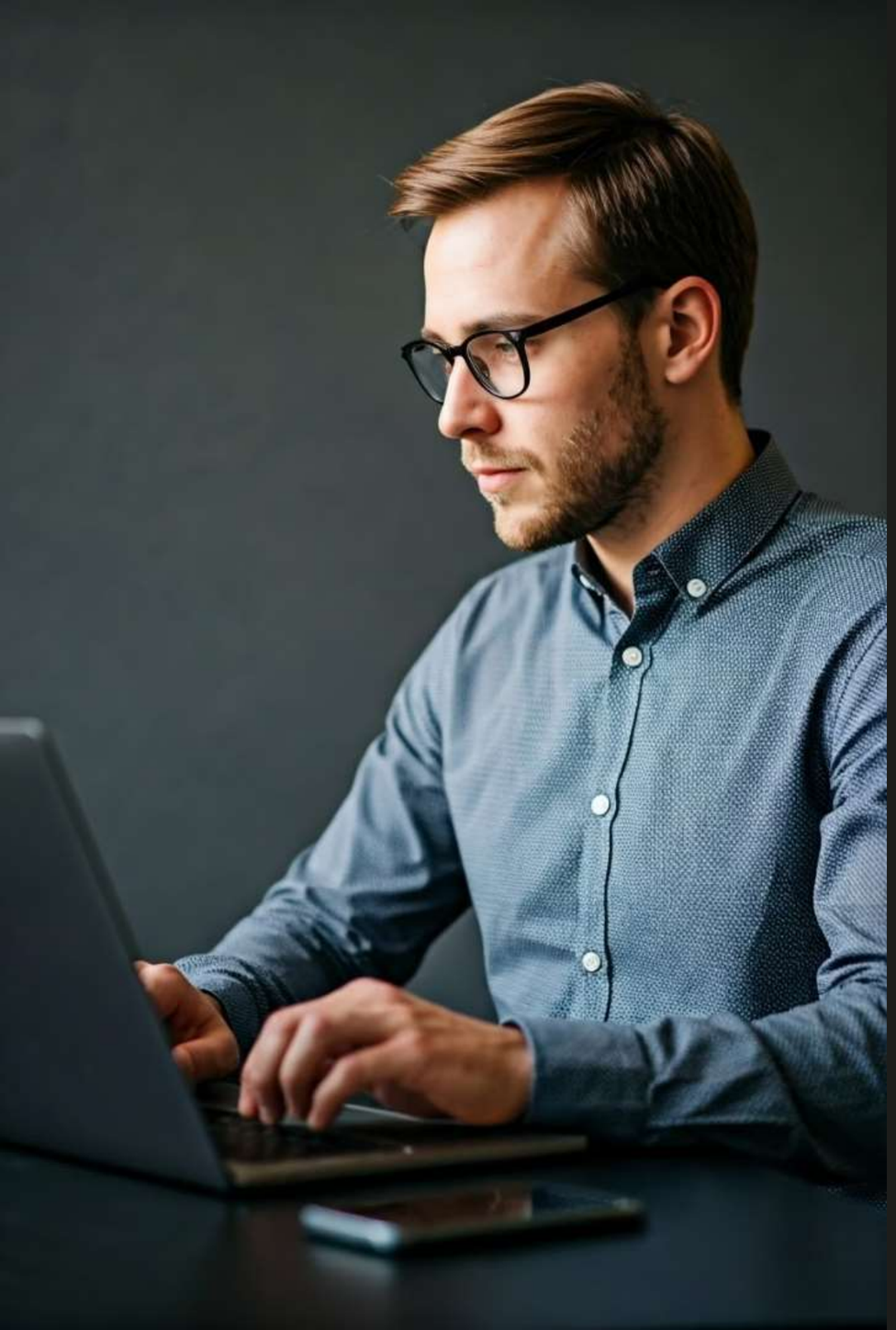
Project oversight, task coordination, QA

Vidhish - Project Manager & Frontend Dev

Timeline management, UI/UX implementation

Ayush - Frontend Developer

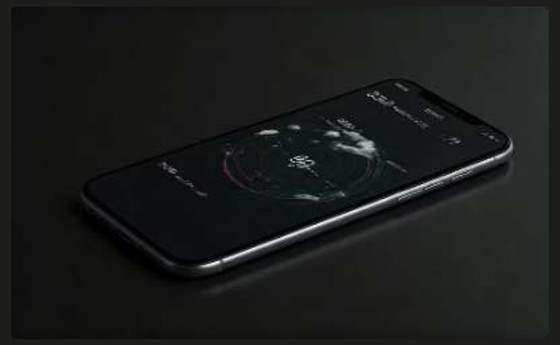
Interactive UI, API integration, responsive design



Challenges Faced

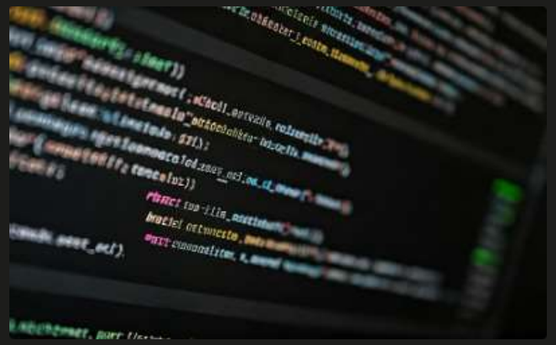
- API rate limits & error handling
- Ensuring responsive design on all screens
- Optimizing API fetch speed & load time
- Coordination across a small team

Conclusion



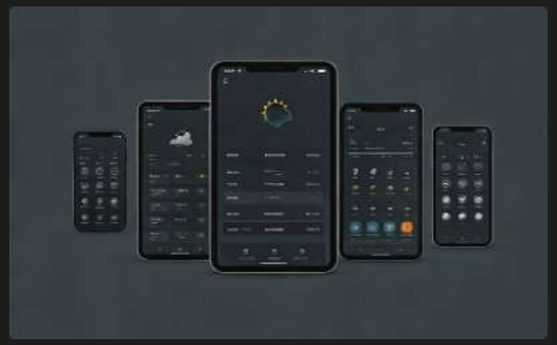
Accessible Data

Real-time weather and AQI for Indian cities



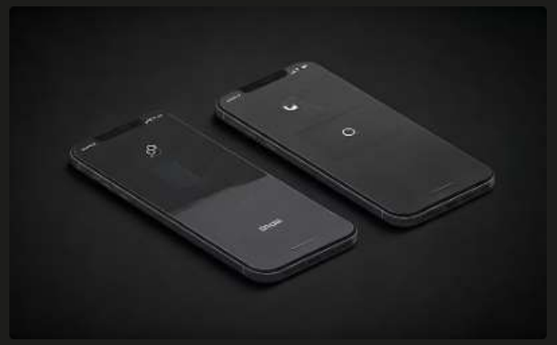
Pure Frontend

Built entirely with frontend technologies and public APIs



Goals Achieved

Accurate, responsive, and easy-to-use design



Future Enhancements

Voice search, dark mode, and city bookmarks planned