🌤️ Weather Now - React Weather App

\*\*Weather Now\*\* is a modern, responsive, and visually engaging weather application built using \*\*React.js\*\*. It provides real-time weather data using the \*\*Open-Meteo API\*\* and showcases custom animations for different weather conditions (sunny, cloudy, and rainy). This project was created as part of a UI challenge and demonstrates skills in \*\*React\*\*, \*\*conditional rendering\*\*, \*\*API integration\*\*, and \*\*CSS animations\*\*.

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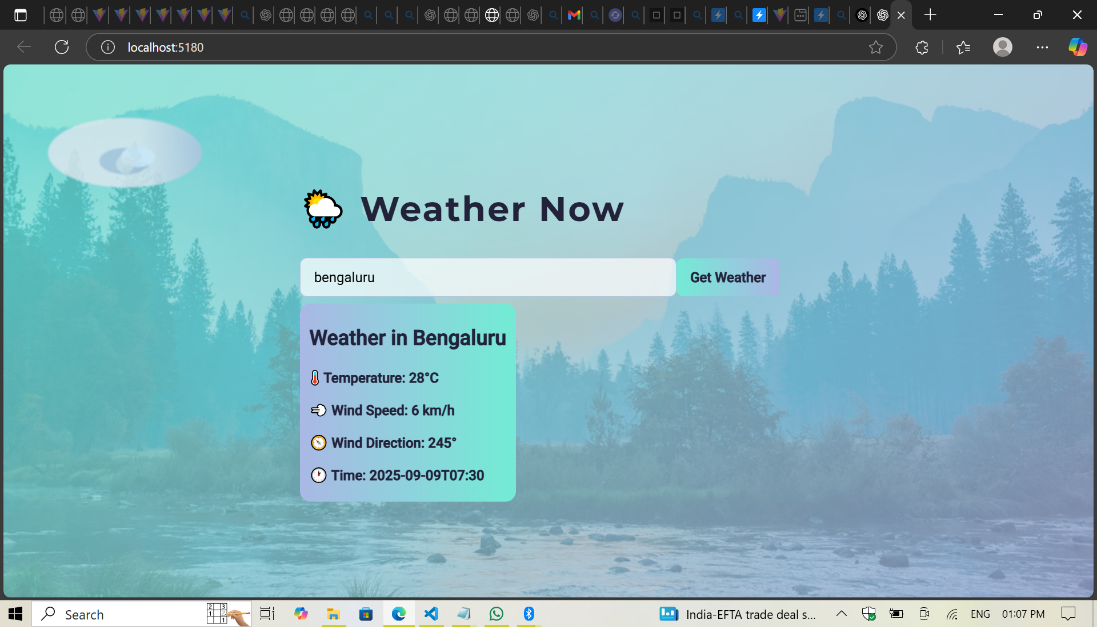
## 🚀 Live Demo

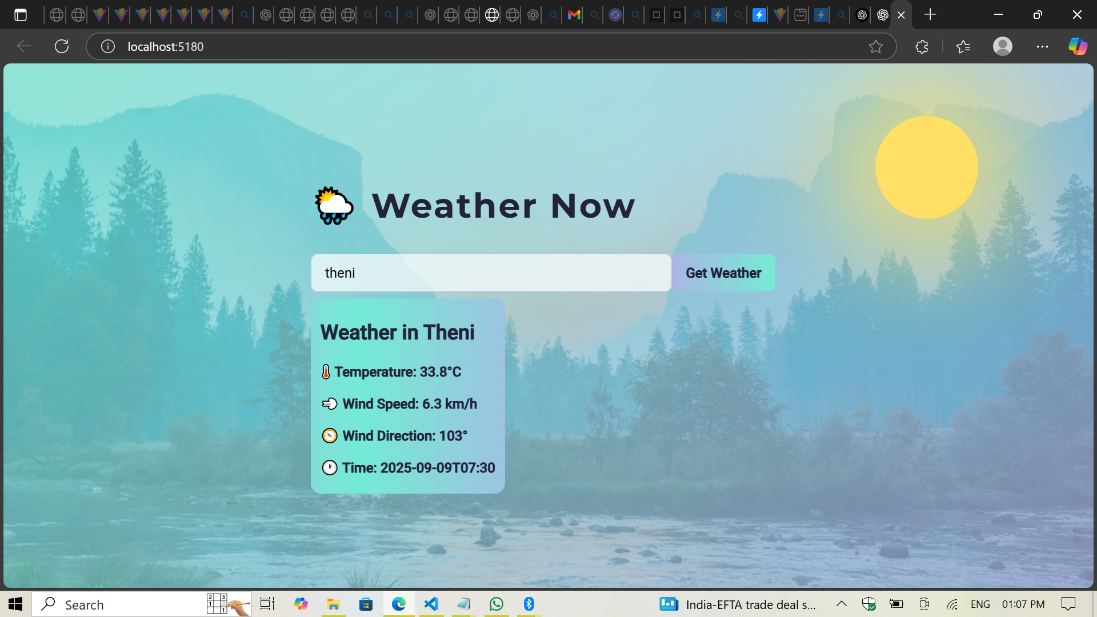
🔗 \*\*stackblitz(https://stackblitz.com/edit/vitejs-vite-drbwb7st?file=src%2FWeatherCard.jsx)\*\*

## 📸 Screenshots

| Sunny | Cloudy | Rainy |

|:--:|:--:|:--:|





## 🧠 Project Highlights

### ✅ Key Features

- 🔍 \*\*Search for City Weather\*\*: Get real-time weather for any city using the Open-Meteo API.

- 🌈 \*\*Weather Animations\*\*: Unique, animated SVG and CSS backgrounds for:

- ☀️ Sunny

- ☁️ Cloudy

- 🌧️ Rainy

- 🧠 \*\*Smart Condition Detection\*\*: Dynamically determines weather condition based on description & temperature.

- ⚡ \*\*Responsive UI\*\*: Fully mobile-friendly interface using Flexbox and media queries.

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## 💻 Tech Stack

| Category | Tools / Libraries |

|----------------|-------------------------------------------|

| \*\*Frontend\*\* | React.js, JSX |

| \*\*Styling\*\* | CSS3, SVG Animations |

| \*\*Weather API\*\*| [Open-Meteo API](https://open-meteo.com/) |

| \*\*Deployment\*\* | Netlify / Vercel / GitHub Pages |

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## 🗂️ Folder Structure

weather-now/

├── public/

│ └── index.html

├── src/

│ ├── components/

│ │ ├── WeatherCard.jsx

│ │ ├── WeatherBackground.jsx

│ ├── styles/

│ │ ├── back.css

│ │ └── ani.css

│ ├── App.js

│ └── index.js

├── README.md

└── package.json

yaml

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## 🧩 Component Breakdown

### 1. `WeatherCard.jsx`

Displays weather information such as:

- City name

- Temperature

- Wind speed & direction

- Time

It uses `WeatherAnimation` to render condition-specific animations.

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### 2. `WeatherAnimation.jsx`

Renders custom \*\*SVG and CSS animations\*\* based on current weather condition:

- \*\*☀️ Sunny\*\*: Animated sun using SVG `<circle>`

- \*\*☁️ Cloudy\*\*: Moving clouds and smoke effect

- \*\*🌧️ Rainy\*\*: Dropping animated rain using CSS and `<svg>`

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### 3. `getCondition(data)`

A smart function to derive the weather condition from:

- `description` string

- `temperature` value

- Ensures fallback logic even if API data is partial or vague

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## 📦 How to Run Locally

```bash

# 1. Clone the repo

git clone https://github.com/your-username/weather-now.git

cd weather-now

# 2. Install dependencies

npm install

# 3. Start the development server

npm start

The app will run at http://localhost:3000

⚙️ Configuration

Update your API endpoint in your main logic (where you fetch data) using Open-Meteo:

js

Copy code

https://api.open-meteo.com/v1/forecast?latitude=xx&longitude=xx&current\_weather=true

You can also integrate geolocation or a city-to-lat/long converter like OpenCage.

✨ What I Learned

✅ Handling real-time API integration in React

✅ Smart condition-based rendering logic

✅ Building reusable React components

✅ Creating SVG + CSS animations for UI interactivity

✅ Responsive layout using Flexbox

📚 Future Improvements

🌍 Add geolocation support (auto-detect user's location)

💬 Add weather descriptions and forecasts

🎨 Add dark/light mode toggle

📱 Add PWA support (installable weather app)

👨‍💻 About Me

I’m a passionate frontend developer with strong interest in building interactive UI experiences. This project is part of my learning journey and demonstrates my skills in:

React.js

Web API integration

Frontend animations

UI/UX design principles

📫 Reach me on LinkedIn-https://www.linkedin.com/in/geeta-sree-0290052a7

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