App.js

```
import React, { useState } from "react";
import "./App.css";

function App() {
  const [city, setCity] = useState("");
  const [weather, setWeather] = useState(null);
  const [error, setError] = useState("");

  const getWeather = async () => {
    if (!city) {
      setError("Please enter a city name");
      setWeather(null);
      return;
    }

    try {
      // Step 1: Get city coordinates using OpenStreetMap Nominatim API (no key needed)
      const geoRes = await fetch(
        `https://nominatim.openstreetmap.org/search?format=json&q=${city}`
      );
      const geoData = await geoRes.json();

      if (geoData.length === 0) {
        setError("City not found");
        setWeather(null);
        return;
      }
```

```
    const { lat, lon } = geoData[0];

    // Step 2: Get weather using Open-Meteo API
    const weatherRes = await fetch(
      `https://api.open-meteo.com/v1/forecast?latitude=${lat}&longitude=${lon}&current_weather=true`
    );
    const weatherData = await weatherRes.json();
    setWeather(weatherData.current_weather);
    setError("");
  } catch (err) {
    setError("Error fetching data");
    setWeather(null);
  }
};

return (
  <div className="container">
    <h1>City Weather App</h1>
    <div className="input-group">
      <input
        type="text"
        placeholder="Enter city name"
        value={city}
        onChange={(e) => setCity(e.target.value)}
        onKeyPress={(e) => e.key === "Enter" && getWeather()}
      />
```

```
        <button onClick={getWeather}>Get Weather</button>
      </div>

      {error && <p className="error">{error}</p>}

      {weather && (
        <div className="weather-card">
          <p>Temperature: {weather.temperature}°C</p>
          <p>Wind Speed: {weather.windspeed} m/s</p>
          <p>Weather Code: {weather.weathercode}</p>
        </div>
      )}
    </div>
  );
}
```

App.css

```
body {
  font-family: Arial, sans-serif;
  background-color: #eef2f3;
  text-align: center;
  padding: 50px;
}

.container {
  background-color: white;
  padding: 30px;
  border-radius: 10px;
  width: 400px;
  margin: 0 auto;
  box-shadow: 0 0 15px rgba(0,0,0,0.1);
}

.input-group {
  display: flex;
  justify-content: center;
  margin-bottom: 20px;
}

input[type="text"] {
  padding: 10px;
  width: 70%;
  font-size: 16px;
  border-radius: 5px;
```

```
  border: 1px solid #ccc;
}

button {
  padding: 10px 15px;
  margin-left: 10px;
  border: none;
  background-color: #007bff;
  color: white;
  border-radius: 5px;
  cursor: pointer;
}

button:hover {
  background-color: #0056b3;
}

.weather-card {
  background-color: #f0f8ff;
  padding: 15px;
  border-radius: 8px;
  margin-top: 20px;
}

.error {
  color: red;
  font-weight: bold;
}
```

index.js

```
import React from "react";

import ReactDOM from "react-dom/client";

import App from "./App";


const root = ReactDOM.createRoot(document.getElementById("root"));

root.render(<App />);
```

✅ **How it works**

1. User enters a city name.
2. **OpenStreetMap Nominatim API** returns the city's latitude and longitude.
3. **Open-Meteo API** returns the current weather using these coordinates.
4. Weather is displayed directly on the page (temperature, wind speed, weather code).
5. No API keys needed.