Building a Weather App:

> *8. Create a Stateless Functional Component:*

− *Build a `WeatherInfo.jsx` component that takes props like `city`, `temperature`, and `description` and displays them.*

Step 1: Set up the Project:

− *First, make sure you have a React project set up. If not, you can create one using Vite or Create React App. Here's how to do it using Create React App:*

```
npx create-react-app weather-app
cd weather-app
npm start
```

Create a Stateless Functional Component - WeatherInfo.jsx

```jsx
// src/components/WeatherInfo.jsx
import React from 'react';

const WeatherInfo = ({ city, temperature, description }) => {
 return (
   <div className="weather-info">
    <h2>{city}</h2>
    <p>Temperature: {temperature}°C</p>
    <p>Description: {description}</p>
   </div>
 );
};

export default WeatherInfo;
```

– **WeatherApp.jsx:**

```jsx
// src/components/WeatherApp.jsx
import React, { useState, useEffect } from 'react';
import WeatherInfo from './WeatherInfo';

const API_KEY = 'ef87342347122c132f97f2abdcccc816'; // Replace with your OpenWeather API key

const WeatherApp = () => {
  const [weatherData, setWeatherData] = useState([]);

  useEffect(() => {
    const cities = ['London', 'New York', 'Tokyo']; // Example cities
    const fetchWeatherData = async () => {
      const weatherPromises = cities.map(async (city) => {
        const response = await fetch(`https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${API_KEY}&units=metric`);
        const data = await response.json();
        return {
          city: data.name,
          temperature: data.main.temp,
          description: data.weather[0].description,
        };
      });

      const results = await Promise.all(weatherPromises);
      setWeatherData(results);
    };

    fetchWeatherData();
  }, []);

  return (
    <div className="weather-app">
      <h1>Weather App</h1>
      {weatherData.length === 0 ? (
        <p>Loading...</p>
      ) : (
        weatherData.map((weather, index) => (
          <WeatherInfo
            key={index}
            city={weather.city}
            temperature={weather.temperature}
            description={weather.description}
```

```
    />
   ))
  )}
 </div>
);
};

export default WeatherApp;
```

– **WeatherApp.css:**

```css
/* src/App.css or src/components/WeatherApp.css */
.weather-app {
  text-align: center;
  font-family: Arial, sans-serif;
}

.weather-info {
  background-color: #f0f0f0;
  padding: 20px;
  margin: 20px;
  border-radius: 10px;
  display: inline-block;
  width: 250px;
}

.weather-info h2 {
  font-size: 1.5em;
}

.weather-info p {
  font-size: 1.2em;
}
```

– **App.jsx:**

```
// src/App.jsx
import React from 'react';
import './App.css';
import WeatherApp from './components/WeatherApp';

const App = () => {
  return (
    <div className="App">
      <WeatherApp />
    </div>
  );
};

export default App;
```

Output:

File Structure: