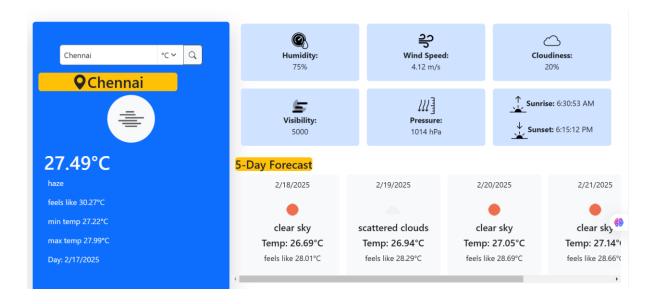
# Assignment-06

Create a weather forecast application

Try out my page: https://anyday-weather.web.app/

Output:





#### Code:

## App.js;

# weatherApp.js:

```
import WeatherDetails from "./WeatherDetails";
import Forecast from "./Forecast";
import React, { useState, useEffect, useCallback } from "react";
import axios from "axios";
import './index.css'
import "bootstrap/dist/css/bootstrap.min.css";
import 'bootstrap-icons/font/bootstrap-icons.css';
const API_KEY = "45fa98156fff63d1d43fdbdad56bc903";
const WEATHER URL = "https://api.openweathermap.org/data/2.5/weather";
function WeatherApp() {
 const [city, setCity] = useState("");
  const [unit, setUnit] = useState("metric");
  const [weatherData, setWeatherData] = useState(null);
  const [lat, setLat] = useState(null);
  const [lon, setLon] = useState(null);
  const [loading, setLoading] = useState(false);
  // Function to fetch weather data by coordinates
  const fetchWeatherByCoords = useCallback(async (latitude, longitude) => {
    if (!latitude || !longitude) return;
    setLoading(true);
      const response = await axios.get(
        `${WEATHER_URL}?lat=${latitude}&lon=${longitude}&appid=${API_KEY}&unit
s=${unit}`
```

```
);
      setWeatherData(response.data);
    } catch (error) {
      console.error("Error fetching weather data", error);
    } finally {
      setLoading(false);
  }, [unit]);
  // Get user location when the component mounts
  useEffect(() => {
    navigator.geolocation.getCurrentPosition(
      (position) => {
        setLat(position.coords.latitude);
        setLon(position.coords.longitude);
        fetchWeatherByCoords(position.coords.latitude,
position.coords.longitude);
      },
      (error) => console.error("Error getting location", error)
    );
  }, [fetchWeatherByCoords]);
  // Fetch weather when lat/lon changes
  useEffect(() => {
   if (lat && lon) fetchWeatherByCoords(lat, lon);
  }, [lat, lon, fetchWeatherByCoords]);
  const handleSearch = async () => {
    if (!city) return;
    setLoading(true);
    try {
      const locationRes = await
axios.get(`${WEATHER_URL}?q=${city}&appid=${API_KEY}`);
      const { lat, lon } = locationRes.data.coord;
      setLat(lat);
      setLon(lon);
      fetchWeatherByCoords(lat, lon);
    } catch (error) {
      alert("City not found");
    } finally {
      setLoading(false);
  };
  return (
    <div className="container-fluid py-2 px-4">
     <div className="row">
```

```
{/* Search Bar & Current Weather */}
        <div className="con col-md-4 bg-primary text-light py-5 rounded"</pre>
shadow-lg d-flex flex-column">
          <div className="input-group d-flex bg-light border border-secondary</pre>
rounded align-self-center"
                style={{width: '300px'} }>
            <input</pre>
                type="text"
                className="form-control p-2 "
                placeholder="Enter city..."
                value={city}
                onChange={(e) => setCity(e.target.value)}
                style={{width: '190px'}}
            <select
                className="form-select p-2"
                value={unit}
                style={{width: '40px'}}
                onChange={(e) => setUnit(e.target.value)}
                <option value="metric">°C</option>
                <option value="imperial">°F</option>
            </select>
            <button className="btn p-2 btn-outline-dark"</pre>
onClick={handleSearch} style={{width: '40px'}}>
                <i className="bi bi-search"></i></i>
            </button>
          </div>
          {loading ? (
            Loading weather...
          ) : weatherData ? (
            <div className="cont">
              <div className="text-center my-3" d-flex flex-column>
                <h2 className="bg-warning d-flex rounded justify-content-</pre>
center text-dark" style={{width: '75%'}}><i class="bi bi-geo-alt-</pre>
fill"></i>{weatherData?.name | Loading..."}</h2>
                <img
                    className="bg-light img-fluid rounded-circle"
                    src={`http://openweathermap.org/img/wn/${weatherData?.weat
her[0].icon}@2x.png`}
                    alt="weather-icon"
              </div>
              <div>
                <h1>{weatherData?.main.temp}°{unit === "metric" ? "C" :
"F"}</h1>
              <div className="det">
```

```
{p>{weatherData?.weather[0].description}
               feels like {weatherData?.main.feels like}°{unit ===
"metric" ? "C" : "F"}
               min temp {weatherData?.main.temp_min}°{unit === "metric" ?
"C" : "F"}
               max temp {weatherData?.main.temp max}°{unit === "metric" ?
"C" : "F"}
               Day: {new Date(weatherData?.dt *
1000).toLocaleDateString()}
             </div>
             </div>
           </div>
           No data available
         )}
       </div>
       {/* Weather Details & Forecast */}
       <div className="col-md-8 justify-self-center">
         {weatherData && <WeatherDetails data={weatherData} />}
         {weatherData && <Forecast lat={lat} lon={lon} unit={unit} />}
       </div>
     </div>
   </div>
 );
export default WeatherApp;
```

# WeatherDetails.js:

```
</div>
        <div className="col-6 col-md-4">
          <div className="bg-primary-subtle rounded p-3 text-center weather-</pre>
box">
          <img width="35" height="35" src="https://img.icons8.com/ios-</pre>
filled/50/wind--v1.png" alt="wind--v1"/>
            <strong>Wind Speed:</strong> {data.wind.speed} m/s
          </div>
        </div>
        <div className="col-6 col-md-4">
          <div className="bg-primary-subtle rounded p-3 text-center weather-</pre>
box">
          <img width="35" height="35"</pre>
src="https://img.icons8.com/ios/50/cloud--v1.png" alt="cloud--v1"/>
            <strong>Cloudiness:</strong> {data.clouds.all}%
          </div>
        </div>
        <div className="col-6 col-md-4">
          <div className="bg-primary-subtle rounded p-3 text-center weather-</pre>
box">
          <img width="35" height="35"</pre>
src="https://img.icons8.com/plumpy/24/fog-night--v1.png" alt="fog-night--v1"/>
            <strong>Visibility:</strong> {data.visibility}
          </div>
        </div>
        <div className="col-6 col-md-4">
          <div className="bg-primary-subtle rounded p-3 text-center weather-</pre>
box">
          <img width="35" height="35"</pre>
src="https://img.icons8.com/ios/50/atmospheric-pressure.png" alt="atmospheric-
            <strong>Pressure:</strong> {data.main.pressure} hPa
          </div>
        </div>
        <div className="col-6 col-md-4">
          <div className="bg-primary-subtle rounded p-3 text-center weather-</pre>
box-1">
            <div>
               <img width="35" height="35" src="https://img.icons8.com/ios-</pre>
filled/50/sunrise.png" alt="sunrise"/>
               <strong>Sunrise:</strong> {new Date(data.sys.sunrise *
1000).toLocaleTimeString()} <br />
            </div>
            <img width="35" height="35" src="https://img.icons8.com/ios-</pre>
filled/50/sunset.png" alt="sunset"/>
            <strong>Sunset:</strong> {new Date(data.sys.sunset *
1000).toLocaleTimeString()}
```

## Forecast.js:

```
import React, { useEffect, useState } from "react";
import axios from "axios";
import './new.css';
const API_KEY = "cbb28006f792f3d036949baf4ecddd6d"; // Replace with your API
key
const Forecast = ({ lat, lon, unit }) => {
 const [forecastData, setForecastData] = useState([]);
  useEffect(() => {
    if (!lat || !lon) {
      console.error("Latitude or Longitude is missing! API request skipped.");
      return;
    const fetchForecast = async () => {
      try {
        const response = await axios.get(
          `https://api.openweathermap.org/data/2.5/forecast?lat=${lat}&lon=${1
on}&appid=${API KEY}&units=${unit}`
        );
        const dailyForecast = extractDailyForecast(response.data.list);
        setForecastData(dailyForecast);
      } catch (error) {
        console.error("Error fetching forecast data", error);
    };
    fetchForecast();
  }, [lat, lon, unit]);
  const extractDailyForecast = (data) => {
```

```
const dailyData = {};
    data.forEach((item) => {
      const date = item.dt_txt.split(" ")[0];
      const time = item.dt txt.split(" ")[1];
      if (!dailyData[date] || time === "12:00:00") {
        dailyData[date] = item;
    });
    return Object.values(dailyData).slice(1, 6);
  };
  return (
    <div className="mt-4">
      <h4 className="bg-warning d-inline-flex rounded">5-Day Forecast</h4>
      {forecastData.length === 0 ? (
        Loading or No Data Available...
        <div className="deta row g-3 d-flex">
          {forecastData.map((day, index) => (
            <div key={index} className="col-md-3 p-2 bg-light text-center"</pre>
rounded">
              {new Date(day.dt * 1000).toLocaleDateString()}
              <img
                src={`http://openweathermap.org/img/wn/${day.weather[0].icon}.
png`}
                alt="weather-icon"
              <h5>{day.weather[0].description}</h5>
              <h5>Temp: {day.main.temp}°{unit === "metric" ? "C" : "F"}</h5>
              feels like {day.main.feels_like}°{unit === "metric" ? "C" :
            </div>
          ))}
       </div>
      )}
    </div>
  );
};
export default Forecast;
```

#### new.css:

```
.weather-box {
   height: 120px;
   display: flex;
   flex-direction: column;
   align-items: center;
   justify-content: center;
 .weather-box-1{
   height: 120px;
   display: flex;
   flex-direction: column;
   gap: 20px;
   align-items: center;
   justify-content: center;
 /* Media Query for screens below 360px */
 @media (max-width: 360px) {
   .weather-box {
     height: 90px; /* Reduce height */
     font-size: 14px; /* Decrease font size */
     padding: 8px; /* Reduce padding */
   .input-group{
       scale:0.87;
       margin-bottom: 0;
   .cont{
       margin: 0;
       scale: 0.7;
       display: flex;
       align-self: center;
       gap: 20px;
       width: 100vw;
   .det{
       display: flex;
       flex-direction: row;
       flex-wrap: wrap;
   .con{
       padding-top: 0;
       height: 300px !important;
```

```
@media (max-width: 320px){
    .cont{
        scale: 0.65;
    }
}

@media (min-width: 360px){
    .det{
        margin-left: 20px;
    }
    .con{
        margin-top: 20px;
    }
    H1{
        margin-left: 12px;
    }
}

.deta{
    flex-wrap: nowrap !important;
    gap: 15px;
    overflow-x: auto !important;
    padding-left: 30px;
}
```