Weather Search App

Take Home Assignment – David Eftink (10/3/2021)

Overview

The Weather Search App is built with Node JS, and uses the Web API https://openweathermap.org/api to retrieve the current weather data by City, Zip Code, or Geo Location coordinates.

Node JS Implementation Details

The following Node JS package modules are used in the Weather Search App.

- Express – Web Application Framework
- Embedded JavaScript (EJS) – Templating Language for HTML markup
- Axios – Promise-based HTTP client for Web API requests

Local Port Number 3000 is used by the application.

Weather Data Web API Usage

API URL
https://api.openweathermap.org/data/2.5/weather

API Key
appid=cf002751564a4c78f5f7ed479f1b9ba3

Request By City
q={city name,state code,country code}

Request By Zip
zip={zip code}
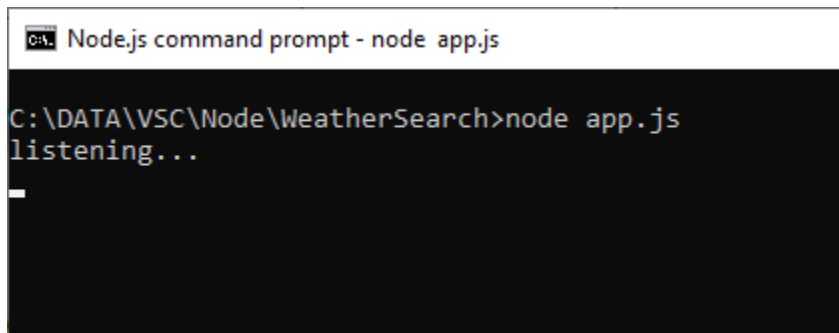
Request By Coordinates
lat={latitude}&lon={longitude}
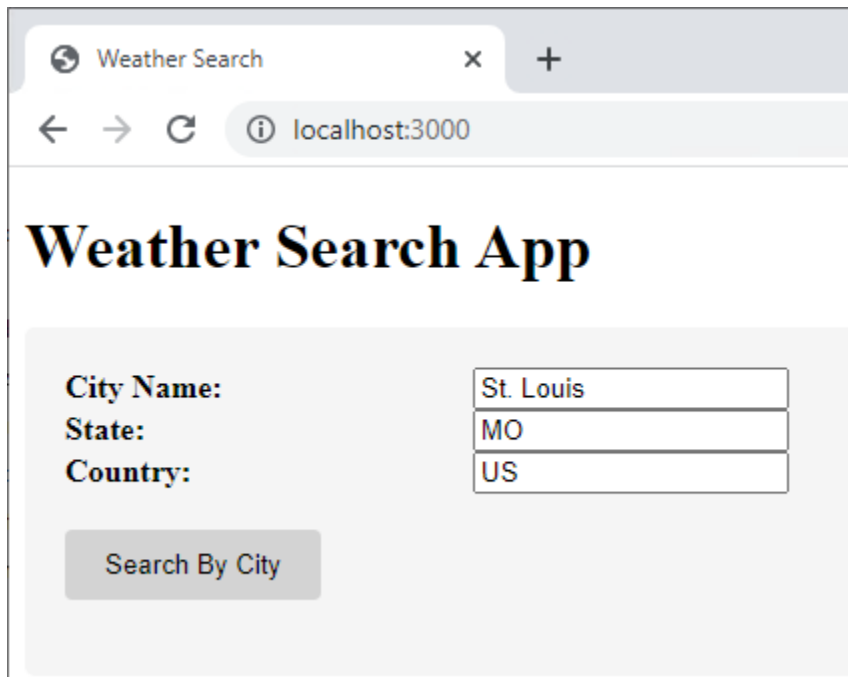
Units of Measure
units=imperial

User Instructions

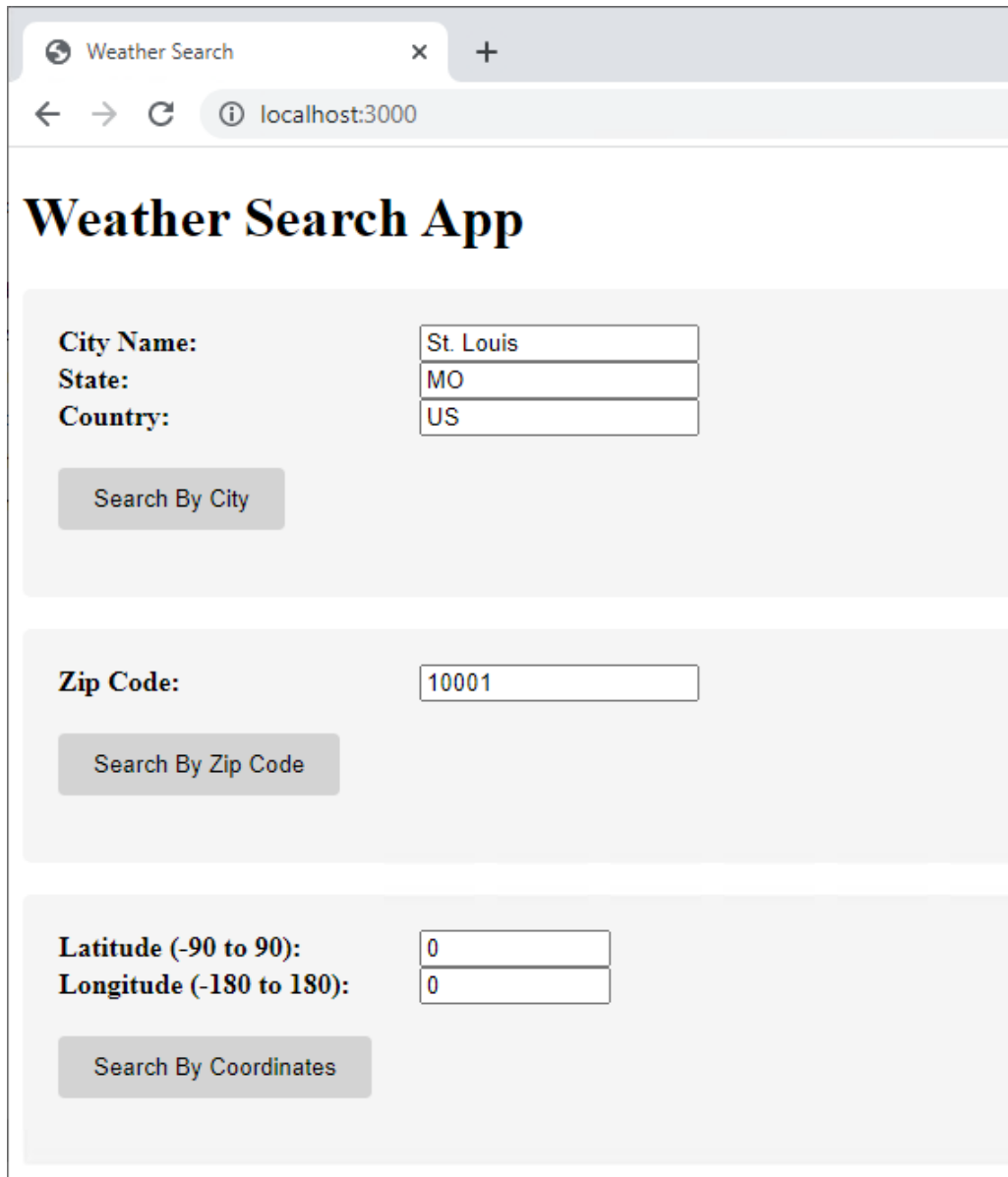### Starting the Application

1. Run from a command-line: **node app.js**

2. Launch a browser, and go to: **localhost:3000**

Using the Application

1. Enter data in the input fields, and use one of the buttons to search by City, Zip, or Coordinates.
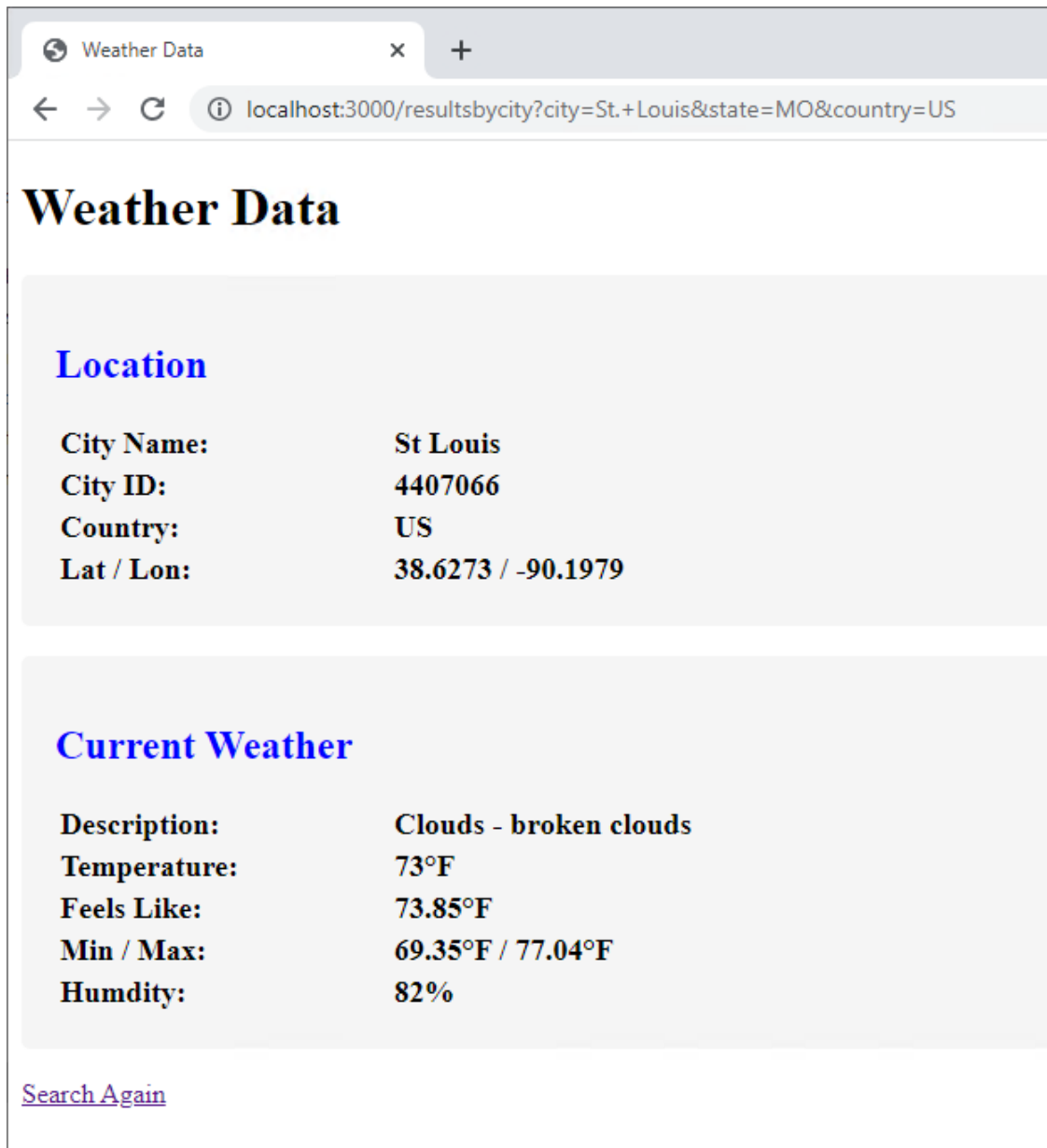
2. The Weather Data Results will be displayed if the request is successful.

Browser window showing "Weather Data" tab at localhost:3000/resultsbycity?city=St.+Louis&state=MO&country=US

Weather Data

Location

City Name:	**St Louis**
City ID:	**4407066**
Country:	**US**
Lat / Lon:	**38.6273 / -90.1979**

Current Weather

Description:	**Clouds - broken clouds**
Temperature:	**73°F**
Feels Like:	**73.85°F**
Min / Max:	**69.35°F / 77.04°F**
Humdity:	**82%**

Search Again

3. If the data request fails, then the error message will be displayed.