EAD CA3 REPORT

Description:

My project uses the open weather API found at <https://openweathermap.org/api>. With this API I use the current weather data to find the current weather of any city that is entered into the API. I had struggled with CORS and felt like every API I tried to implement had CORS problems until I stumbled across this API. The API brings in a lot of information about the weather including sunset and sunrise and these are all stored in a C# class that I used to generate using <https://json2csharp.com/> which was very helpful as there was a lot to unpack with the json brought in through the API. The temperature of the weather is brought in using Kelvin which is helpful as it is the easiest unit of temperature to convert and so in the code the user can toggle between seeing Celsius or seeing Fahrenheit.

Graphical user interface, text, application, email

Description automatically generated

Testing:

For the testing I just created 3 unit tests and did them like I normally would do unit tests for C#. The firsts tests the parsed in data is correct but just assigning data to the Root class of my data storage and then checking to see if one of the parameters is write based off of the a single checked variable.

The other two test the code for changing the temperature to Celsius and Fahrenheit based off of the code used in the razor class and results gotten from google of the same kelvin temperature.

Links:

Azure Hosting: <https://davidbirdeadca3.azurewebsites.net/>

Github Account: <https://github.com/DavidBird-itt/ead_ca3>