1. Project Overview

Group Members:
Collin Stapleton, Emmett Colsch, Aidan Ziegler

Project Title: Weather

Description: Weather is a command line C application tell help users understand the conditions around them. Users can set up what info they want to see, and set their location. This will be saved so when they open the application back up they can get back to their profile. The info is gathered from a weather website through an API. There is also a tanning feature that tells the user how long they should tan to avoid being burned.

2. Key Features and Functionalities

2.1 Location Management (10 pts)

Users can create, update, and delete locations in the system. These locations and their current weather conditions will be updated and output based on computers time whenever the system is used.

2.2 Conditions Management (10 pts)

Users can customize and update which weather conditions are displayed for their selected locations.

2.3 Wind speed (5 pts)

Collect the wind speed for the given location in miles per hour and tell the user if they need to wear a coat.

2.4 Local Storage (10 pts)

User locations and conditions are stored in text files within the system. Upon exiting and reopening the application, users can retrieve their saved locations and conditions.

2.5 API for Weather Data (20 pts)

OpenWeather API to retrieve weather conditions for the given location, and output the user selected information when the user selects a given location.

2.6 Extreme Weather Warning (10 pts)

If there are any extreme weather warnings or watches the user will be notified immediately for their safety.

2.7 Pinned Mode (10 pts)

Users can select if they would like to pin the window, keeping it open indefinitely and continuously updating the weather while up.

2.7 UV Warning (15 pts)

Based on the current UV index the system tells the user what sunscreen they should wear and how long they should be out in the sun to avoid burns and get tan.

2.9 Update Graphics based on Current Weather (10 pts)

Window pops up including the weather report, but updates graphics based on current weather (ex: a sun icon is displayed when it's sunny, or a raincloud for when it is raining).

Bonus Feature (5 pts)

Include information about which outdoor activities would be appropriate for a days weather conditions (e.g Sunny and warm weather outputs beach/pool day)

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