**Requirements**

*Weather App*

Created: 07/25/21 by Tom Lever

Updated: 07/25/21 by Tom Lever

**Opportunity Weather App Will Address**

Tom Lever and family, friends, acquaintances, and contacts will benefit from having a minimal, versatile, open-source application for accessing weather information, and from having an example of a client that queries a database, interacts with a user, requests information from a web-based weather API, and processes information.

**What Weather App Will Do**

Weather App will be a command line based application that will provide a user an introduction, including a menu of commands.

A user may:

* Display the current zip code.
* Remove a tracked location from the table of saved zip codes.
* Exit the weather app.
* Insert a zip code into the table of saved zip codes.
* Display a detailed weather forecast for the current day at the current location.
* Display the percentage chance that it is raining right now at the current location.
* Display average volume precipitation per unit area for this minute.
* Display the table of saved zip codes.
* Update the current zip code with a zip code.
* Display a weather forecast for the current week at the current location.
* Display the command menu.

The weather app need not be connected to the Internet. If an operation is not possible, the title and message of an appropriate exception will be displayed.

**Protections**

The client will not make more than sixty calls to the web-based weather API per minute. The client will not make more than one million calls to the web-based weather API per month.

**Phases of Development**

At the end of Phase…

1. Weather App will have its minimum viable capability of providing all of the functionality detailed in “What Weather App Will Do”.