# Demonstration 1:

I tested the select location by name feature by querying the weather in London, Ontario. I entered the name “London” and chose the correct option from the list of locations presented, and got the weather in London, Ontario. The weather data returned was similar to those I found on AccuWeather for New York.

## Demo 1 Images

Demonstration 1 Image 1:

A screenshot of a computer program

Description automatically generated

Demonstration 1 Image 2:

A screenshot of a computer

Description automatically generated

Demonstration 1 AccuWeather Data Image:

A screenshot of a weather forecast

Description automatically generated

# Demonstration 2:

I tested the select location by zip code feature, querying about the weather at the Empire Sate building, which has a zip code of 10118, and is in the USA, which has an ISO 31666:2 country code of “US”. Unfortunately, I “accidently” put in the wrong zip code (19118 instead of 10118), and got the wrong location. I entered N to indicate I had the wrong location, but then actually accidently entered the zip code when I was asked for the country code. The program could be improved by making it more obvious at a glance what it is asking for. Unfortunately, since the program currently lacks the option to choose to re-enter the country code when entering the zip code, I had to back out entirely, and re-select the option to select location by zip code. I then entered the data correctly, and got weather data that was similar to those I found on AccuWeather for the location.

## Demo 2 Images

Demonstration 2 Image 1:

A screenshot of a computer program

Description automatically generated

Demonstration 2 Image 2:

A screenshot of a computer program

Description automatically generated

Demonstration 2 AccuWeather Data Image:

A screenshot of a weather forecast

Description automatically generated

# Demo 3

I tested the select location by coordinates feature, querying about the weather at the Eiffel Tower, which has coordinates of {48.8584, 2.2945}. I entered the coordinates and got the selection, and got weather data that was similar to those I found on AccuWeather for Paris 07 Palais-Bourbon, Ville de Paris, which was the closest location that I could find weather data on with AccuWeather. However, I would have appreciated it if the program would have also provided some location data to make sure I had the right coordinates.

## Demo 3 Images

Demonstration 3: Image 1

A screenshot of a computer program

Description automatically generated

Demonstration 3 AccuWeather Data Image:

A screenshot of a weather forecast

Description automatically generated

# Demo 4:

I tested what happens when there is no key in the APIKeyManager.

## Demo 4 Images

A screen shot of a computer

Description automatically generated

# Possible improvements

* Add the option to choose to re-enter the country code when entering the zip code.
* Add the option to choose to re-enter the latitude when entering the longitude.