WeatherAPI

Abstract data type WeatherAPI represents a weather forecast for a particular place and in a particular time.

It has two class variables:

* DARKSKY\_BASE\_URL – this is the beginning of the URL used to get the JSON file from Dark SKY API for the forecast
* GMAPS\_BASE\_URL – this is the beginning of the URL used to get the JSON file from the Google Maps Geocode API (used to convert geographical coordinates to a normal address and the other way around)

It’s \_\_init\_\_ function takes 8 arguments:

* Address – the address of the place where the forecast has to be requested
* Time – the time for which the forecast has to requested
* Currently, minutely, hourly, daily, alerts and flags are all optional parameters and if set to 0 won’t be included in the JSON file (set to 1 by default).

It has three functions:

* Address:
  + Returns the given address of the place where the forecast has to be requested
* Time:
  + Returns the time for which the forecast has to requested
* Weather\_url:
  + Returns the final Dark SKY API URL with the forecast, uses the get\_data\_from\_URL function declared in the secondary\_functions.py file.

Run the weather\_test.py file to see how it works. You can also see the structure of this class on the diagram diagram.png)