AccuWeather-WebScraper

Global variables

var `num_to_month`

The class web-scrapes the AccuWeather.com website in HTML format to extract hourly forecast and daily forecst data and send scraped data into MongoDB. The weather information this class fetches includes max temperature, min temperature, precipitation probability, and weather forecast description.

A web page we scraped can be found by visiting the below url:

https://www.accuweather.com/en/us/pittsburgh/15282/hourly-weather-forecast/1310?day

https://www.accuweather.com/en/us/pittsburgh/15282/daily-weather-forecast/1310

Classes

class `AccuWeather_forecast`

Methods

def `change_zipcode`(self, zipcode)

change_zipcode method is desinged for changing the zipcode attribute to the desired zipcode. The key word of this method is a zipcode that user requests.

def `daily_forecast`(self)

daily_forecast method extract the 12 days daily forecast data from Accuweather.com. The method returns a list of dictionaries of weather data for the 10 days daily forecast.

def `hourly_forecast`(self)

hourly_forecast method is to extract the 24 hours hourly forecast data from Accuweather.com. The method returns a list of dictionaries of weather data for the 24 hours hourly forecast.

def `write_to_mongodb`(self, url, collection_name)

write_to_mongodb method is for writing the hourly and daily forecast data into MongoDB database. The key word of this method are the url to the cluster in MongoDB and the collection name of the database.