WebScraping Project using Python

Source: DM Automobiles' website (The website hosts listings for car re-sales.)

Resources Used: Jupyter Notebooks(for Python), Beautiful Soup Library(for HTML parsing)

Objective & Approach: The approach behind executing this project has been to use python to scrape data of the source url and to provide the user with a csv containing the crucial data hosted by the website, viz The Make, Model, and Prices of the cars. Care has been taken to ensure the usability of the csv generated so that, the CSV is ready for analysis of the elements inside it. This includes removing irrelevant whitespaces and representing the data is in a access friendly format.

CSV Reommendations: To ensure best results, The recommended delimiter is ", ". The Decimal and Thousandths place separator must be set to standard EU currency format. (example 41,900 €)







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Entrée [8]: import requests # sedning requests to the URL
from bs4 import BeautifulSoup as bs # #Python parsing library for HTML
import os #for OS operations
import re # for removing whitespace from before the prices
import csv #for csv operations
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Entrée [2]: source = requests.get('https://pros.lacentrale.fr/C018357/?pro_only=0?pro_only=0&fromLC=true&fromLCHeader=true&max=100')
soup = bs(source, 'html.parser')
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Entrée [9]: csv file = open('dataExport.csv', 'w', newline='')
             csv writer = csv.writer(csv file)
             csv_writer.writerow(['Make', 'Model', 'Prices'])
             csv file.close()
Entrée [10]: | #gives us the make and model of all cars
             '''The general approach has been to visually see where these elements are located using browser's web inspecting tools
             and then to grab the tag of the required element and call teh .text method on it to get all the text.
             After grabbing the text I sliced text accordingly to separate the make and modele of the car and then append all this
             data into their dedicted lists'''
             import string
             make Names = []
             model Names= []
             Prices Cars = []
             for var1 in soup.find_all('h3', class_ = 'brandModelTitle'):
                 car Names = var1.text
                 test Split = car Names.split("\n")
                 full Names = test Split[1:3]
                 make = test Split[1:2]
                 model = test Split[2:3]
                 make Names.append(make)
                 model Names.append(model)
Entrée [11]: # Gives the prices of all cars
             '''Utilizes similar approch used to grab the names, here we target a different class where the price lies.
             I also removed white spaces that ensures usefullness of the generated Prices, subsequently the CSV. '''
             for Prices in soup.find all('span', class = 'f20 bold fieldPrice'):
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Prices = re.sub("^\s+\\s+\$", "", Prices, flags=re.UNICODE) # removing whitespace before the prices

Prices = Prices.span.text

Prices Cars.append(Prices)

