

WEBSCRAPING AN E-COMMERCE SITE

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from selenium import webdriver
from selenium.webdriver.chrome.options import Options
from webdriver_manager.chrome import ChromeDriverManager
import csv

class one():
    def __init__(self, title, price):
        self.title = title
        self.price = price

class two():

    def data(self, name):
        count = 1
        page = 1
        add_page = 10
        maximum = 100

        my_list = []

        url = "https://www.amazon.com/s?k=" + name + "&page=" + str(page)

        my_options = Options()
        my_options.headless = False
        my_options.add_experimental_option("detach", True)
        my_browser = webdriver.Chrome(ChromeDriverManager().install(),
options=my_options)
        my_browser.maximize_window()
        my_browser.get(url)
        my_browser.set_page_load_timeout(12)

        while True:
            try:
                if add_page * page > maximum:
                    break

                if count > add_page :
                    count = 1
                    page = page + 1

                title_path =
'//*[@id="search"]/div[1]/div[1]/div/span[3]/div[2]/div[' + str(count) +
']/div/span/div/div/div[2]/div[2]/div/div/div[1]/h2/a/span'
                title = my_browser.find_element_by_xpath(title_path)
                title_text = title.get_attribute("innerHTML").splitlines()[0]
                title.click()

                price_path = '//*[@id="priceblock_ourprice"'
                price = my_browser.find_element_by_xpath(price_path)
                price_text = price.get_attribute("innerHTML")

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url = "https://www.amazon.com/s?k=iphone+12"
my_browser.get(url)
my_browser.set_page_load_timeout(12)

my_info = one(title_text, price_text)
my_list.append(my_info)

count = count + 1

except Exception as e:
    print("Excetion on the count number", count, e)
    count = count + 1

    if add_page * page > maximum:
        break

    if count > add_page :
        count = 1
        page = page + 1

url = "https://www.amazon.com/s?k=iphone+12"
my_browser.get(url)
my_browser.set_page_load_timeout(12)

my_browser.close()

return my_list

fun_call = two()

with open('one.csv', 'w', newline='', encoding='utf-8') as csvfile:
    data = csv.writer(csvfile, delimiter = ';', quotechar='\"',
quoting=csv.QUOTE_MINIMAL)
    for article in fun_call.data("iphone 12"):
        data.writerow([article.title, article.price])
```