lazada

June 24, 2021

[2]: import requests

```
import time
     import random
     from random import randint
     import requests
     from bs4 import BeautifulSoup
     import pandas as pd
     import json
     import urllib.parse
     from time import sleep
     from openpyxl.workbook import Workbook
[3]: finaldata = []
[4]: keywords = ['lego 42121',
                 'lego 76160',
                  'lego 76191',
                  'lego 71372',
                  'lego 10941',
                  'lego 11013',
                  'lego 76383',
                  'lego 10951',
                  'lego 41936',
                  'lego 42123',
                  'lego 43191',
                  'lego 60287',
                  'lego 60291',
                  'lego 60304',
                  'lego 71736',
                  'lego 31115',
                  'lego 76901',
                  'lego 11001',
                  'lego 10872',
                  'lego 10920',
                  'lego 10915',
                  'lego 75551',
                  'lego 71742',
```

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'lego 71360',
                                                                                                                        'lego 71368',
                                                                                                                       'lego 76165']
[5]: def getCurrentEpochTime():
                                                             milliseconds = int(round(time.time() * 1000))
                                                             return milliseconds
[6]: ses = requests.Session()
                                  mmstat = "https://gm.mmstat.com/fsp.1.1"
                                  headers0 = { user-agent : 'Mozilla/5.0 (Windows NT 6.0; Win64; x64) AppleWebKit/
                                        _{\hookrightarrow}537.36 (KHTML, like Gecko) Chrome/51.0.2704.79 Safari/537.36 Edge/14.14393',
                                                                                                                       'accept-language': 'en-GB,en;q=0.5',
                                                                                                                       'accept-encoding': 'gzip, deflate, br',
                                                                                                                       'content-type': 'text/plain; charset=UTF-8',
                                                                                                                       'content-length': '958',
                                                                                                                       'origin': 'https://www.lazada.sg',
                                                                                                                       'referer': 'https://www.lazada.sg/',
                                                                                                                       'te': 'trailers'}
                                  REQUESTBODY = b'{"gmkey":"OTHER","gokey":
                                         \Rightarrow "c1 = 24cb9fab896eaeb862cd1e05be46c159\&delay = 0\&hash = \&last\_pos = 0\%252C0\&msg = Daraz-mm-web\%2520\%2520\%26cd1e05be46c159\&delay = 0\&hash = \&last\_pos = 0\%252C0\&msg = Daraz-mm-web\%2520\%26cd1e05be46c159\&delay = 0\&hash = \&last\_pos = 0\%252C0\&msg = 0\&hash = \&last\_pos = 0\&hash = 0\&hash = \&last\_pos = 0\&hash = 0\&hash = \&last\_pos = 0\&hash =
                                        ⇒sg%252Fcatalog%252F&patch_ver=-&pid=punish-page&query=_keyori%253Dss%2526from%253Dinput%252
                                        \hookrightarrow0%2520(Windows%2520NT%25206.
                                        \leftrightarrow0%253B%2520Win64%253B%2520x64)%2520AppleWebKit%252F537.
                                         \hookrightarrow 36%2520(KHTML%252C%25201ike%2520Gecko)%2520Chrome%252F51.0.2704.
                                        →79%2520Safari%252F537.36%2520Edge%252F14.
                                        {\scriptstyle \hookrightarrow} 14393 \& referrer = \& rel = \& scr = 1920 \times 1080 \& spm\_a = \& spm\_b = \& title = \& tracker\_ver = 4.0.
                                        {\scriptstyle \hookrightarrow} 0 \& type = 11 \& ua = Mozilla \% 252 F5.0\% 2520 \ (\ Windows \% 2520 NT\% 25206.)
                                         \hspace{2cm} \hspace{2cm}
                                        →79%2520Safari%252F537.36%2520Edge%252F14.
                                        {\scriptstyle \hookrightarrow} 14393 \& uid = 24 cb9 fab896 eaeb862 cd1e05 be46 c159", "logtype": "2"} \ 'instantial of the content of 
                                  res0 = ses.post(mmstat, headers=headers0, data=REQUESTBODY)
                                   # print(res0.headers)
                                  sca = res0.cookies.get('sca')
[7]: url1 = 'https://sg.mmstat.com/v.gif?
                                        →logtype=1&title=Sorry%2C%20we%20have%20detected%20unusual%20traffic%20from%20your%20network
                                         {\tt \sim\&pre=\&scr=1920x1080\&\_p\_url=https\%3A\%2F\%2Fwww.lazada.}
                                        \rightarrow sg\%2F catalog\%2F\%3F\_keyori\%3Dss\%26from\%3Dinput\%26page\%3D1\%26q\%3Dlego\%2Bsuper\%2Bheroes\%2B7616groups and the superfield of the superfielding and the sup
                                        →0.0.0.
                                        {\scriptstyle \leftarrow} 12 ea 720 bk 56 Fp 8 \& category = \& uidaplus = \& aplus \& yunid = \& \& trid = 0b1195 ac1624209056530466 \& e18a4 \& asid = Aplus \& yunid = \& \& trid = 0b1195 ac1624209056530466 \& e18a4 \& asid = Aplus \& yunid = \& \& trid = 0b1195 ac1624209056530466 \& e18a4 \& asid = Aplus \& yunid = \& \& trid = 0b1195 ac1624209056530466 \& e18a4 \& asid = Aplus \& yunid = \& \& trid = 0b1195 ac1624209056530466 \& e18a4 \& asid = Aplus \& yunid = \& \& trid = 0b1195 ac1624209056530466 \& e18a4 \& asid = Aplus \& yunid = A
                                        →11&ps_i=AtvbWCF0BFxy5LNEYujErjyi9S0vs0YE&pc_i=dd1LzJIaYkuiQ2qD4w76tNGWBDqdu383&_p_ref=&_p_u
                                  headers0.update({"cookie": sca})
                                  aptResp = ses.get(url1, headers=headers0)
```

```
atpsida = aptResp.cookies.get('atpsida')
          cna = aptResp.cookies.get('cna')
[8]: apt2_url = 'https://sg.mmstat.com/v.gif?
            \rightarrow log type=1 \& title=lego \% 20 super \% 20 heroes \% 2076160 \% 20-\% 20 Buy \% 20 lego \% 20 super \% 20 heroes \% 2076160 \% 20 and 0.00 heroes \% 2076160 \% 20 a
            →lazada.sg&pre=https%3A%2F%2Fwww.lazada.
            →sg%2Fcatalog%2F%3F_keyori%3Dss%26from%3Dinput%26page%3D1%26q%3Dlego%2Bsuper%2Bheroes%2B7616
            \hookrightarrowlazada.
            ⇒sg%2Fcatalog%2F%3F_keyori%3Dss%26from%3Dinput%26page%3D1%26q%3Dlego%2Bsuper%2Bheroes%2B7616
                   '&spm-cnt=a2o42.searchlist.0.0.12ea5675du9NP3&cfgver=1.
            →0&aplus&asid=AQAAAAA67xdgHA3hZAAAAAAAcxAAg7RzJQg==&p=1&o=winVista&b=edge14&s=1920x1080&w=edg
            →15.6%jsver=aplus_int%pver=0.7.
            →11&ps_i=AtvbWCF0BFxy5LNEYujErjyi9S0vs0YE&pc_i=dd1LzJIaYkuiQ2qD4w76tNGWBDqdu383&lzd_pg_type=
            {\scriptsize \leftarrow} lazada.sg\&\_p\_meta\_robots=index\%2Cfollow\&\_p\_canonical=https\%3A\%2F\%2Fwww.
            \hookrightarrowlazada.

→sg%2Fcatalog%2F&_hng=SG%257Cen-SG%257CSGD%257C702&tag=1&stag=-1&lstag=-1&_slog+0'

          headers0.update({"cookie": "sca="+sca+";"+"atpsida="+atpsida+";"})
          apt2Res = ses.get(apt2_url, headers=headers0)
[9]: x5sec_url = '''https://www.lazada.sg/catalog/___tmd___/slide?
            headers2 = {
                   'authority': 'www.lazada.sg',
                   'cache-control': 'max-age=0',
                   'sec-ch-ua': '"Chromium"; v="92", " Not A; Brand"; v="99", "Google Chrome";
            \hookrightarrow v="92"'
                   'sec-ch-ua-mobile': '?0',
                   'upgrade-insecure-requests': '1',
                   'user-agent': 'Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML,
            \hookrightarrowlike Gecko) Chrome/92.0.4515.51 Safari/537.36',
                   'accept': 'text/html,application/xhtml+xml,application/xml;q=0.9,image/
            \rightarrowavif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9',
                   'sec-fetch-site': 'same-origin',
                   'sec-fetch-mode': 'navigate',
                   'sec-fetch-user': '?1',
                   'sec-fetch-dest': 'document',
                   'referer': 'https://www.lazada.sg/catalog/?

→_keyori=ss&from=input&page=1&q=lego+super+heroes+76160&sort=priceasc',

                   'accept-language': 'en-US, en; q=0.9',
          }
```

[10]:

```
[11]: csr_url = "https://member.lazada.sg/user/api/getCsrfToken"
      res2 = ses.get(csr_url)
      tb token = res2.cookies[' tb token ']
      anon_id = res2.cookies['anon_uid']
      lzd_sid = res2.cookies['lzd_sid']
      cust_cookie2 = 't_uid=dd1LzJIaYkuiQ2qD4w76tNGWBDqdu383;
      →cna=qGRWGaAGK1kCAcXoPfgWqu5o;hng=SG|en-SG|SGD|702;client_type=desktop;'
      newCookie2 = cust_cookie2+"_tb_token ="+tb_token+";"+"anon_uid="+anon_id+";
      lzd sid+";"+"t fv="+str(getCurrentEpochTime()) + \
          ";"+"Domain=.lazada.sg; Path=/;"+x5sec
      url = "https://www.lazada.sg/catalog/?
      →_keyori=ss&from=input&page=1&q=lego+super+heroes+76160&sort=priceasc"
      payload = {}
      headers3 = {
          'authority': 'www.lazada.sg',
          'cache-control': 'max-age=0',
          'sec-ch-ua': '"Chromium";v="92", " Not A;Brand";v="99", "Google Chrome";
      -v="92"'
          'sec-ch-ua-mobile': '?0',
          'upgrade-insecure-requests': '1',
          'user-agent': 'Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML,
      →like Gecko) Chrome/92.0.4515.51 Safari/537.36',
          'accept': 'text/html,application/xhtml+xml,application/xml;q=0.9,image/
      \rightarrowavif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9',
          'sec-fetch-site': 'same-origin',
          'sec-fetch-mode': 'navigate',
          'sec-fetch-user': '?1',
          'sec-fetch-dest': 'document',
          'referer': 'https://www.lazada.sg/catalog/?
       →_keyori=ss&from=input&page=1&q=lego+super+heroes+76160&sort=priceasc',
          'accept-language': 'en-US,en;q=0.9'
```

```
}
headers3.update({"cookie": newCookie2})
```

```
[12]: def getProductsDetails(keywords):
          for keyword in keywords:
              keyword_index =keywords.index(keyword)+1
              # print('Index', index)
              keyword_data =[]
              try:
                  new_string = urllib.parse.quote_plus(keyword)
                  keyword_url ='https://www.lazada.sg/catalog/?q='+str(new_string)
                  headers3.update({'referer':keyword_url})
                  final_response = requests.request("GET", keyword_url,__
       →headers=headers3, data=payload)
                  print("working on Keyword: ",keyword)
                  sleep(10)
                  # print(final_response.text)
                  soup = BeautifulSoup(final_response.content, "html.parser")
                  scripts = soup.select("script")
                  pageResults = None
                  for script_tag in scripts:
                      if "window.pageData" in str(script_tag):
                          pageData = str(script_tag).replace("<script>", "").replace(
                              "</script>", "").replace("window.pageData =", "").
       →rsplit(";", 1)[0].strip()
                          pageData_json = json.loads(pageData)
                          # print(pageData_json)
                          pageResults= pageData_json['mods']["listItems"]
                      else:
                          pass
                  listItems = pageResults
                  for item in listItems:
                      try:
                          item["originalPriceShow"]
                          originalPrice = item['originalPriceShow']
                      except:
                          originalPrice = 0
                      try:
                          item["discount"]
                          discount = item["discount"]
                      except:
                          discount = 0
```

```
# keyword_data.append({"sku":keyword_index,"prod_Name":__
\hookrightarrow item["name"], "Keyword":keyword, "prod_Id": item["nid"], "prod_url":
\rightarrow item["productUrl"],
                               "image": item["image"], "priceShow":
→ item["priceShow"], "originalPrice": originalPrice, "discount": discount})
               keyword_data.append({"sku":keyword_index,"prod_Name":__
→item["name"], "Keyword": keyword, "noOfResults": len(listItems), "lowestPrice": □
→item["priceShow"]})
           prices=[x["lowestPrice"].split("$")[1].strip() for x in_
→keyword_data]
           # print(min(prices))
           price_index =prices.index(min(prices))
           finaldata.append(keyword_data[price_index])
       except:
           raise RuntimeError (f"There has been an error..")
   return
```

[]: getProductsDetails(keywords=keywords)

```
[]: final_df = pd.DataFrame(finaldata)
final_df.to_excel("lazada-sg-products.xlsx", index=False)
print("We are Done ... ")
```