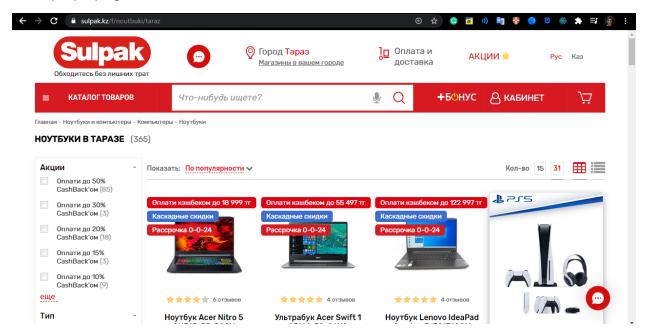
Ali Shalbayev

Home Work 3

Report

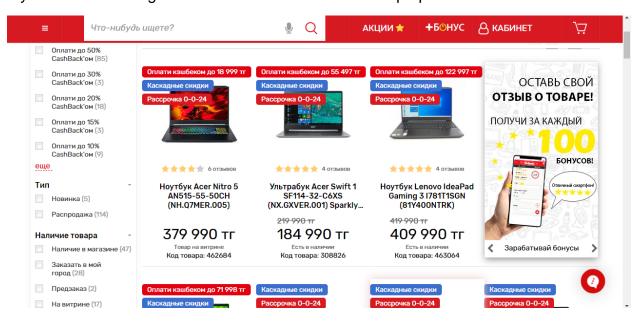
For the web scraping task, I chose Sulpak.kz as my target website. Particularly I decided to scrape the laptops page.



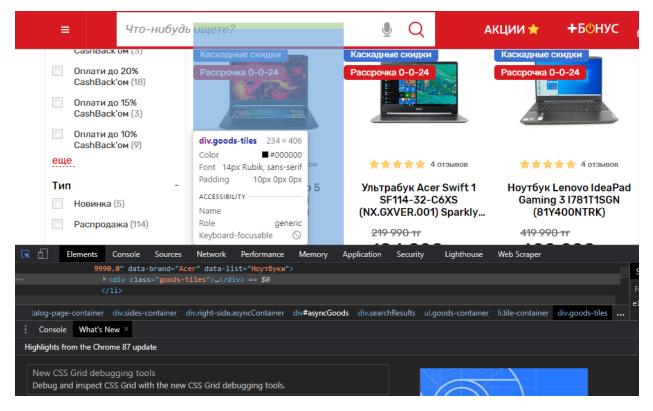
Here I am importing the libraries for the beginning.



My first task was to gather the links for each of these laptops.



By hotkey ctrl+shift+i I identified the parent tag



The next task was to determine where links are located.

```
Console Sources Network Performance Memory Application Security Lighthouse Web Scraper

* Valv Class= goods-photo /

* (a href="/g/noutbuk nitro 5 an515 55 50ch i585gn nh q7mer 005 62 1878/taraz" data-product-id="462684" onmousedown=

"try { evinentLib.analyze(this) } catch (_) { }">...</a>

* (div class="rating-container r-con" / /div> == $0

* (a class="rating-container starts-to-comments" aria-label="go to the comments page" href="/g/noutbuk nitro 5 an5

15 55 50ch i585gn nh q7mer 005 62 1878/taraz#commentsTab" data-product-id="462684" onmousedown="try { evinentLib.a nalyze(this) } catch (_) { }">...</a>

* (span class="coments-quantity">6 отзывов</span>

* (/div)
```

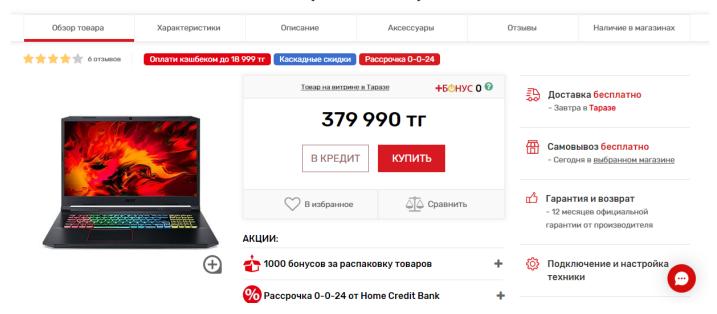
Then I wrote the loop for collecting these links since there were 3 links per each product, I was forced to get rid of them.

There I am checking is everything fine.

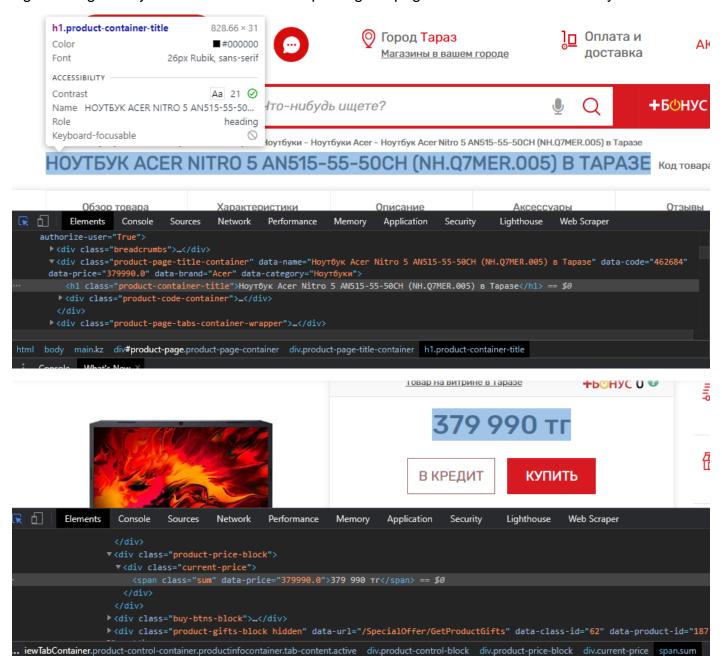
The next step was to detect where name, price and reviews are laid out.

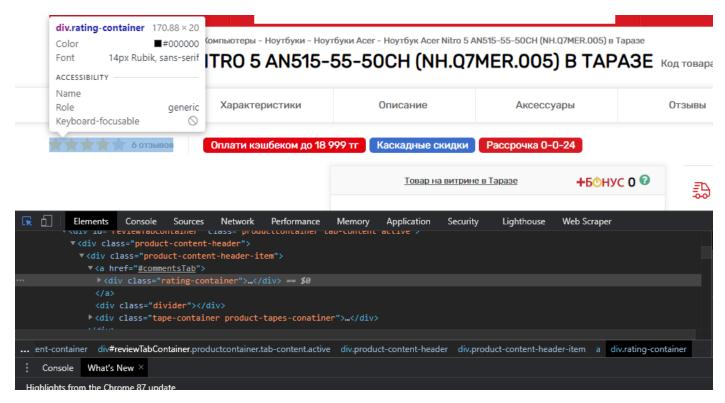
Главная - Ноутбуки и компьютеры - Компьютеры - Ноутбуки - Ноутбуки Асег - Ноутбук Асег Nitro 5 ANS15-55-50CH (NH.Q7MER.005) в Таразе

НОУТБУК ACER NITRO 5 AN515-55-50CH (NH.Q7MER.005) В ТАРАЗЕ Код товара: 462684



Again using hotkey ctrl+shift+i I started inspecting the page and found out where they are.





To identify how many stars a product gained I counted how many times a string "fa fa-star active" did appear.

So here is my code for all these steps.

```
In [50]: #testlink = 'https://www.sulpak.kz/g/noutbuk_acer_aspire_3_a315_34_c41tuw_nx_he3er_011_62_1982/'
          laptoplist = []
          for link in productlinks:
              r = requests.get(link, headers = headers)
soup = BeautifulSoup(r.content, 'lxml')
              name = soup.find('h1', class_='product-container-title').text.strip()
              try:
                  price = soup.find('span', class_='sum').text.strip()
                   price = 'Sold Out'
              try:
                   review = soup.find('div', class_='rating-container').text.strip()
              except:
                   review = 'No Reviews'
                   rating = soup.find('div', class_='rating-container')
                   rating = str(rating)
                   star = rating.count('fa fa-star active')
              except:
                   star = 'No Ratings'
              laptop = {
   'Name' : name,
                   'Price' : price,
'Reviews' : review,
                    'Rating out of 5' : star
              laptoplist.append(laptop)
```

This is a scraped data frame that we finally got.

```
In [11]: import pandas as pd
In [51]: df = pd.DataFrame(laptoplist)
Out[51]:
```

	Name	Price	Reviews	Rating out of 5
0	Ультрабук Apple MacBook 12' Core M3/8GB/256GB	383 790 ττ	2 отзывов	5
1	Ноутбук Apple MacBook Pro 13' M1 3.2/8Gb/512GB	825 990 ττ	0 отзывов	0
2	Ноутбук Acer Aspire 3 A315-55 (NX.HEHER.01G)	189 990 π	1 отзывов	1
3	Hoyτбyκ Acer Aspire 5 A515-54G-767Q Silver (NX	349 990 π	0 отзывов	0
4	Hουτδυκ Lenovo IdeaPad S145 I341TUW (81W800KNRK)	219 990 ττ	0 отзывов	0
336	Ультрабук Acer Swift 1 SF114-32 (NX.GXUER.00E)	184 990 ττ	0 отзывов	0
337	Ноутбук Acer Predator Helios 300 PH317-54-76VC	979 990 ττ	0 отзывов	0
338	Ηουτδυκ Asus VivoBook 15 X512D R341TUW (90NB0L	149 990 π	0 отзывов	0
339	Ноутбук ASUS Laptop 15 M509D R381TUN (90NB0P51	179 990 тг	0 отзывов	0
340	Ноутбук Asus Rog Strix G512L (90NR0351-M04890)	599 990 ττ	0 отзывов	0

341 rows × 4 columns