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1 # Ahmed Ayman Ahmed Alhofy
2 import requests
3 from bs4 import BeautifulSoup
4 import pandas as pd
5 import time
6
7 # Lists to store data
8 titles = []
9 prices = []
10 ratings = []
11 product_links = []
12 image_links = []
13
14
15 for page in range(1, 6):
16     url = f"https://www.noon.com/egypt-en/eg-gaming-laptops/?page={page}"
17     headers = {
18         "accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7",
19         "accept-language": "en,ar-AE;q=0.9,ar;q=0.8,en-US;q=0.7",
20         "cache-control": "max-age=0",
21         "priority": "u=0, i",
22         "sec-ch-ua": "\"Not)A;Brand\";v=\"8\", \"Chromium\";v=\"138\", \"Google Chrome\";v=\"138\"",
23         "sec-ch-ua-mobile": "?1",
24         "sec-ch-ua-platform": "\"Android\"",
25         "sec-fetch-dest": "document",
26         "sec-fetch-mode": "navigate",
27         "sec-fetch-site": "same-origin",
28         "sec-fetch-user": "?1",
29         "upgrade-insecure-requests": "1",
30         "user-agent": "Mozilla/5.0 (Linux; Android 6.0; Nexus 5 Build/MRA58N) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/138.0.0.0 Mobile Safari/537.36"
31     }
32
33
34     response = requests.get(url, headers=headers)
35     print(f"Page {page} status:", response.status_code)
36
37     soup = BeautifulSoup(response.content, "html.parser")
38     products = soup.select('a.ProductBoxLinkHandler_productBoxLink_FPhjp')
39
40     if not products:
41         print(f"No products found on page {page}")
42         break
43
44     for product in products:
45         # Title
46         title_tag = product.select_one("h2.ProductDetailsSection_title_JorAV")
47         title = title_tag.text.strip() if title_tag else "N/A"
48         titles.append(title)
49
50         # Price
51         price_tag = product.select_one("strong.Price_amount_2sXa7")
52         price = price_tag.text.strip() if price_tag else "N/A"
53         prices.append(price)
54
55         # Rating
56         rating_tag = product.select_one("div.RatingPreviewStar_textCtr_sfsJG")
57         rating = rating_tag.text.strip() if rating_tag else "N/A"
58         ratings.append(rating)
59
60         # Product Link
61         href = product.get('href')
62         full_link = "https://www.noon.com" + href if href else "N/A"
63         product_links.append(full_link)
64
65         # Image link
66         img_tag = product.select_one("img.ProductImageCarousel_productImage_jtsOn")
67         img_src = img_tag['src'] if img_tag else "N/A"
68         image_links.append(img_src)
69
70     print(f"✅ Scraped page {page} with {len(products)} products.")
71     time.sleep(1) # Be polite
72
73
74 # Create DataFrame
75 df = pd.DataFrame({
76     "Product_name": titles,
77     "Rating": ratings,
78     "Price": prices,
79     "Product_link": product_links,
80     "Image_link": image_links
81 })
82
83 # Output
84 print("\nDataFrame shape:", df.shape)
85 print("Number of items scraped:", len(df))
86
87
88 # Create the directory if it doesn't exist
89 import os
90
91 output_dir = "Task-2/ecommerce_scraper"
92 os.makedirs(output_dir, exist_ok=True) # Creates the folder structure if needed
93
94 # Define the file path
95 output_file = os.path.join(output_dir, "noon_gaming_laptops_v1.csv")
96
97 # Save the DataFrame
98 df.to_csv(output_file, index=False, encoding='utf-8')
99
100 print(f"✅ Data saved to: {output_file}")

```