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from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.chrome.service import Service
from webdriver_manager.chrome import ChromeDriverManager
import time
import pandas as pd
import json

driver = webdriver.Chrome(service=Service(ChromeDriverManager().install()))

amazon_email = 'neelimabattula2005@gmail.com'
amazon_password = '*********'

def login_to_amazon():
    driver.get('https://www.amazon.in/ap/signin')
    time.sleep(2)
    driver.find_element(By.ID, 'ap_email').send_keys(amazon_email)
    driver.find_element(By.ID, 'continue').click()
    time.sleep(2)
    driver.find_element(By.ID, 'ap_password').send_keys(amazon_password)
    driver.find_element(By.ID, 'signInSubmit').click()
    time.sleep(3)

def scrape_category(category_url):
    driver.get(category_url)
    time.sleep(3)
    products = []
    product_elements = driver.find_elements(By.XPATH, '//div[contains(@class,"zg_itemWrapper")]')
    for product_element in product_elements:
        try:
            name = product_element.find_element(By.CSS_SELECTOR, '.p13n-sc-truncated').text
            price = product_element.find_element(By.CSS_SELECTOR, '.p-price').text
            sale_discount = product_element.find_element(By.CSS_SELECTOR, '.a-declarative
.a-badge').text
            rating = product_element.find_element(By.CSS_SELECTOR, '.a-icon-alt').text
            best_seller_rating = product_element.find_element(By.CSS_SELECTOR, '.zg-badge-text').text
            ship_from = 'Amazon'
            sold_by = 'Amazon'
            description = 'N/A'
            num_bought = 'N/A'
            category = category_url.split("/")[-2]
            images = []
            image_elements = product_element.find_elements(By.CSS_SELECTOR, '.pimg img')
            for img in image_elements:
                images.append(img.get_attribute('src'))
            if '50%' in sale_discount:
                products.append({
                    'Name': name,
                    'Price': price,
                    'Sale Discount': sale_discount,
                    'Best Seller Rating': best_seller_rating,
                    'Ship From': ship_from,
                    'Sold By': sold_by,
                    'Rating': rating,
                    'Product Description': description,
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                'Number Bought in the Past Month': num_bought,
                'Category': category,
                'All Available Images': images
            })
        except Exception as e:
            print(f"Error while scraping product: {e}")
            continue
    return products

def main():
    login_to_amazon()

    categories_urls = [
        "https://www.amazon.in/gp/bestsellers/kitchen/ref=zg_bs_nav_kitchen_0",
        "https://www.amazon.in/gp/bestsellers/shoes/ref=zg_bs_nav_shoes_0",
        "https://www.amazon.in/gp/bestsellers/computers/ref=zg_bs_nav_computers_0",
        "https://www.amazon.in/gp/bestsellers/electronics/ref=zg_bs_nav_electronics_0"
    ]

    all_products = []
    for url in categories_urls:
        category_products = scrape_category(url)
        all_products.extend(category_products)

    with open('amazon_best_sellers.json', 'w') as json_file:
        json.dump(all_products, json_file, indent=4)

    df = pd.DataFrame(all_products)
    df.to_csv('amazon_best_sellers.csv', index=False)

    print(f"Scraping completed. Total products scraped: {len(all_products)}")

if __name__ == "__main__":
    main()
    driver.quit()
```