#This is my python project and all the code. If you want to see the csv file, please go to my Github, it is there. Thank You!

# import the libraries I’m going to use

from bs4 import BeautifulSoup

import requests

import time

import datetime

import smtplib

# Connecting to the Website and pulling in data.

URL = 'https://www.amazon.com/Quencher-FlowState-Stainless-Insulated-Smoothie/dp/B0CP9YB3Q4/ref=sr\_1\_1\_sspa?crid=3P3GCAOEVSLMF&dib=eyJ2IjoiMSJ9.nS0HmK5xS\_QRN8xq7A0OLEcbGaAmSEkboWi3hjVGZDudrhFRTeqHb9QOX5IbZDG1MiZM035RFGrdiVCez6CZ9teEE5GroQQ95RZlqhfUr5nxpExKzYji\_\_YgPLA9odJmbfWKgNyZJincL1MdpO9\_qBsOjYaL9tWE\_lW0G\_33rdO6b1m14t-7Kza-wlPgPWo1tf70Z0VCj2WBL8p8Ygiz-dX0chMcEZBNa9QuvGp9xu9faR3-JOITxZzcalvQVKqqd109-uDA9rMKclvMiOYmVuY-OOfFVZBiA3wV8v3koMs.OGwBsfXF\_ILNQkD54ju3Fd7UZxn\_2XaW3eGX3k7mbUw&dib\_tag=se&keywords=stanley%2Bcup&qid=1726060152&sprefix=stanley%2Caps%2C408&sr=8-1-spons&sp\_csd=d2lkZ2V0TmFtZT1zcF9hdGY&th=1'

headers = {"User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10\_15\_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/17.6 Safari/605.1.15", "Accept-Encoding":"gzip, deflate", "Accept":"text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8", "DNT":"1","Connection":"close", "Upgrade-Insecure-Requests":"1"}

page = requests.get(URL,headers=headers)

soup= BeautifulSoup(page.content, "html.parser")

title = soup.find(id='productTitle').get\_text().strip()

price = soup.find('span',class\_='a-offscreen').get\_text().replace("$","$")

rating = soup.find('span',class\_='a-icon-alt').get\_text().replace("","")

print(title)

print(price)

print(rating)

output:

Stanley Quencher H2.0 FlowState Stainless Steel Vacuum Insulated Tumbler with Lid and Straw for Water, Iced Tea or Coffee, Smoothie and More, Rose Quartz 2.0, 30 OZ / 0.89 L

$35.00

4.7 out of 5 stars

#this is time stamp

import datetime

today = datetime.date.today()

print('Date:',today)

output:

Date: 2024-09-11

#creating the csv file to write headers and data into the files (automate the data from)

import csv

header = ['Title', 'Price','Date','Rating']

data = [title, price, today, rating]

#uncomment this section if you want to delete the data

#with open('AmazonWScraperDataSet.csv', 'w', newline='', encoding='UTF8') as f:

#writer = csv.writer(f)

#writer.writerow(header)

#writer.writerow(data)

#using pandas to check the data without having to open the data evrytime

import pandas as pd

df = pd.read\_csv(r'/Users/alizwamahamba/AmazonWScraperDataSet.csv')

print(df)

output:  
 Title Price Date

0 Stanley Quencher H2.0 FlowState Stainless Stee... $35.00 2024-09-11

1 Stanley Quencher H2.0 FlowState Stainless Stee... $35.00 2024-09-11

Rating

0 4.7 out of 5 stars

1 4.7 out of 5 stars

#we are appending more data into the csv

with open('AmazonWScraperDataSet.csv', 'a+', newline=’ ‘, encoding='UTF8') as f:

writer = csv.writer(f)

writer.writerow(data)

#i am automating the data

#pulling everything from here

def check\_price():

URL = 'https://www.amazon.com/Quencher-FlowState-Stainless-Insulated-Smoothie/dp/B0CP9YB3Q4/ref=sr\_1\_1\_sspa?crid=3P3GCAOEVSLMF&dib=eyJ2IjoiMSJ9.nS0HmK5xS\_QRN8xq7A0OLEcbGaAmSEkboWi3hjVGZDudrhFRTeqHb9QOX5IbZDG1MiZM035RFGrdiVCez6CZ9teEE5GroQQ95RZlqhfUr5nxpExKzYji\_\_YgPLA9odJmbfWKgNyZJincL1MdpO9\_qBsOjYaL9tWE\_lW0G\_33rdO6b1m14t-7Kza-wlPgPWo1tf70Z0VCj2WBL8p8Ygiz-dX0chMcEZBNa9QuvGp9xu9faR3-JOITxZzcalvQVKqqd109-uDA9rMKclvMiOYmVuY-OOfFVZBiA3wV8v3koMs.OGwBsfXF\_ILNQkD54ju3Fd7UZxn\_2XaW3eGX3k7mbUw&dib\_tag=se&keywords=stanley%2Bcup&qid=1726060152&sprefix=stanley%2Caps%2C408&sr=8-1-spons&sp\_csd=d2lkZ2V0TmFtZT1zcF9hdGY&th=1'

headers = {"User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10\_15\_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/17.6 Safari/605.1.15", "Accept-Encoding":"gzip, deflate", "Accept":"text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8", "DNT":"1","Connection":"close", "Upgrade-Insecure-Requests":"1"}

page = requests.get(URL,headers=headers)

soup= BeautifulSoup(page.content, "html.parser")

title = soup.find(id='productTitle').get\_text().strip()

price = soup.find('span',class\_='a-offscreen').get\_text().replace("$","$")

rating = soup.find('span',class\_='a-icon-alt').get\_text().replace("","")

import datetime

today = datetime.date.today()

import csv

header = ['Title', 'Price','Date','Rating']

data = [title, price, today, rating]

with open('AmazonWScraperDataSet.csv', 'a+', newline='', encoding='UTF8') as f:

writer = csv.writer(f)

writer.writerow(data)

#this is the timer to run for the price and inputs the data into the csv

#set timer to check in every week

while(True):

check\_price()

time.sleep(604800)

#comment

import pandas as pd

df = pd.read\_csv(r'/Users/alizwamahamba/AmazonWScraperDataSet.csv')

print(df)

output:

Title Price Date \

0 Stanley Quencher H2.0 FlowState Stainless Stee... $35.00 2024-09-11

1 Stanley Quencher H2.0 FlowState Stainless Stee... $35.00 2024-09-11

2 Stanley Quencher H2.0 FlowState Stainless Stee... $35.00 2024-09-11

3 Stanley Quencher H2.0 FlowState Stainless Stee... $35.00 2024-09-11

Rating

0 4.7 out of 5 stars

1 4.7 out of 5 stars

2 4.7 out of 5 stars

3 4.7 out of 5 stars

#send an email automatically when the price drops below a certain amount if you want to

#def send\_mail():

#server = smtplib.SMTP\_SSL('smtp.gmail.com',465)

#server.ehlo()

#server.starttls()

#server.ehlo()

#server.login('alizwasm@gmail.com','xxxxxxxxxxxxxx')

#subject = "The Stanley cup you want is below $15! Now is your chance to buy!"

#body = "Alizwa, This is the moment we have been waiting for. Now is your chance to pick up the cup of your dreams. Don't mess it up! Link here: https://www.amazon.com/Quencher-FlowState-Stainless-Insulated-Smoothie/dp/B0CP9YB3Q4/ref=sr\_1\_1\_sspa?crid=3P3GCAOEVSLMF&dib=eyJ2IjoiMSJ9.nS0HmK5xS\_QRN8xq7A0OLEcbGaAmSEkboWi3hjVGZDudrhFRTeqHb9QOX5IbZDG1MiZM035RFGrdiVCez6CZ9teEE5GroQQ95RZlqhfUr5nxpExKzYji\_\_YgPLA9odJmbfWKgNyZJincL1MdpO9\_qBsOjYaL9tWE\_lW0G\_33rdO6b1m14t-7Kza-wlPgPWo1tf70Z0VCj2WBL8p8Ygiz-dX0chMcEZBNa9QuvGp9xu9faR3-JOITxZzcalvQVKqqd109-uDA9rMKclvMiOYmVuY-OOfFVZBiA3wV8v3koMs.OGwBsfXF\_ILNQkD54ju3Fd7UZxn\_2XaW3eGX3k7mbUw&dib\_tag=se&keywords=stanley%2Bcup&qid=1726060152&sprefix=stanley%2Caps%2C408&sr=8-1-spons&sp\_csd=d2lkZ2V0TmFtZT1zcF9hdGY&th=1

#msg = f"Subject: {subject}\n\n{body}"

#server.sendmail(

#'alizwasm@gmail.com',

#msg

#)