from selenium import webdriver

from selenium.webdriver.common.by import By

import time

import csv

driver = webdriver.Chrome()

driver.get(url="https://www.carwale.com/new-cars/")

driver.find\_element(By.XPATH, "//div[@aria-label='View More Brands']").click()

time.sleep(5)

with open('car\_data2.csv', 'w', newline='', encoding='utf-8') as csvfile:

csv\_writer = csv.writer(csvfile)

fieldnames = ['Brand','Car Name','Price', 'User Rating', 'Mileage ARAI (kmpl)', 'Engine (cc)', 'Fuel Type', 'Transmission', 'Power (bhp)', 'Exterior', 'Comfort', 'Performance', 'Fuel Economy', 'Value For Money', 'Positive Ratings']

csv\_writer.writerow(fieldnames)

car\_elements = driver.find\_elements(By.XPATH, "//ul[@class='o-XylGE o-bCRRBE o-cpnuEd']/li//div[@class='o-cpNAVm o-byFsZJ o-eemiLE o-fzpihx']")

for i in range(len(car\_elements)):

# row=[]

print("--------------------------")

car\_elements = driver.find\_elements(By.XPATH, "//ul[@class='o-XylGE o-bCRRBE o-cpnuEd']/li//div[@class='o-cpNAVm o-byFsZJ o-eemiLE o-fzpihx']")

##print("Brand : ",car\_elements[i].text)

brand=car\_elements[i].text

car\_elements[i].click()

time.sleep(2) # Adding a delay to ensure the new page is loaded properly

car\_names = driver.find\_elements(By.XPATH, "//div[@class='o-brXWGL o-fznVqX o-fznVsN o-fznVmz o-fznVCp o-cpnuEd']//h3")

for k in range(len(car\_names)):

# row=[]

row = {'Car Name': 0, 'Brand': 0, 'Price': 0, 'User Rating': 0, 'Mileage ARAI (kmpl)': 0, 'Engine (cc)': 0, 'Fuel Type': 0, 'Transmission': 0, 'Power (bhp)': 0, 'Exterior': 0, 'Comfort': 0, 'Performance': 0, 'Fuel Economy': 0, 'Value For Money': 0, 'Positive Ratings': 0}

try:

row['Brand']=brand

time.sleep(2)

car\_name = driver.find\_element(By.XPATH, "(//div[@class='o-brXWGL o-fznVqX o-fznVsN o-fznVmz o-fznVCp o-cpnuEd']//h3)[{}]".format(k+1))

##print("Car name : ",car\_name.text)

# row.append(car\_name.text)

row['Car Name']=car\_name.text

car\_name.click()

##print("--------")

time.sleep(5)

driver.execute\_script("window.scrollBy(0,1500)")

time.sleep(5)

try:

driver.find\_element(By.XPATH,"//div[@aria-label='View More']").click()

time.sleep(2)

ele=driver.find\_elements(by=By.XPATH,value="//tbody[@ class='z8gaCc o-dJmcbh']//tr")

l=len(ele)

# print(l)

j=3

while(j<=l):

time.sleep(3)

e=f"((((//tbody[@ class='z8gaCc o-dJmcbh']//tr)[{j}])[1])//td)[1]"

e1=f"((((//tbody[@ class='z8gaCc o-dJmcbh']//tr)[{j+1}])[1])//td)[1]"

x=driver.find\_element(by=By.XPATH,value=e).text

y=driver.find\_element(by=By.XPATH,value=e1)

##print(x.text," : ",y.text)

if(j==3 or j>=l):

if(j==3):

price=y.text

row['Price']=price

else:

pass

else:

row[x]=y.text

j+=2

# print(row)

for h in range(1,6):

fea=driver.find\_element(by=By.XPATH,value=f"(((//div[@class='o-cpnuEd o-dGBYL o-bUVylL o-dsiSgT o-eNbQSA'])[1]//div[@class='o-fzpihY o-fzpilm o-tvvmc'])[{h}])//div//p").text

feat= driver.find\_element(by=By.XPATH, value=f"((((//div[@class='o-cpnuEd o-dGBYL o-bUVylL o-dsiSgT o-eNbQSA'])[1]//div[@class='o-fzpihY o-fzpilm o-tvvmc'])[{h}])//div//div//div)[1]").text

##print(fea.text,":",feat.text)

# row.append(feat.text)

row[fea]=feat

driver.find\_element(by=By.XPATH,value="//select").click()

driver.find\_element(by=By.XPATH,value="(//select//option)[3]").click()

prat=driver.find\_element(by=By.XPATH,value="(//div[@class='o-cpnuEd o-dsiSgT o-bUVylL o-fznJDS o-fznJFI o-fzptVd o-fzptYr o-eNbQSA o-OAYdd o-dbKqqe o-GFmfi']//div)[1]")

# print("Positive ratings : ",prat.text)

# row.append(prat.text)

row['Positive Ratings']=prat.text

time.sleep(2)

csv\_writer.writerow(list(row.values()))

print(row)

except:

pass

time.sleep(2)

try:

# Navigating back to the previous page

driver.back()

time.sleep(3) # Add a delay to ensure the page is loaded properly

# Scroll to the top of the page to avoid interacting with elements from the previous page

driver.execute\_script("window.scrollTo(0, 0);")

time.sleep(2)

# Adding a delay to ensure the new page is loaded properly

time.sleep(5)

except:

pass

driver.execute\_script("window.scrollBy(0,1000)")

time.sleep(5)

except:

pass

try:

# Navigating back to the previous page

driver.back()

time.sleep(3) # Add a delay to ensure the page is loaded properly

# Scroll to the top of the page to avoid interacting with elements from the previous page

driver.execute\_script("window.scrollTo(0, 0);")

time.sleep(2)

# Adding a delay to ensure the new page is loaded properly

time.sleep(5)

except:

pass

driver.find\_element(By.XPATH, "//div[@aria-label='View More Brands']").click()

time.sleep(2)

driver.close()