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#importing necessary libraries

import pandas as pd
import numpy as np
from selenium import webdriver
from bs4 import BeautifulSoup
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
from warnings import warn
import time


#passing required URL for scrapping

driver=webdriver.Chrome("chromedriver.exe")
driver.get("https://www.linkedin.com")


#logging in using keys

inputID = driver.find_element(by=By.ID, value = "username")
inputPass = driver.find_element(by=By.ID, value = "password")
signIn = driver.find_element(by=By.CLASS_NAME, value = "login__form_action_container ")
inputID.send_keys("email_id")
inputPass.send_keys("password")
signIn.click()

time.sleep(10)

login_btn = driver.find_element(By.CLASS_NAME,"sign-in-form__submit-button")
login_btn.click()


#redirecting to desired URL

driver.get("https://www.linkedin.com/jobs/collections/")


#list of elements required

name = []
designation = []
location = []
job_link = []
industry = []
emp_count = []
linkedin_followers = []
applicants = []
involvement = []
work_type = []


#iterating through page
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for i in range(1,41):
    #button path for page numbers
    path ='//button[@aria-label="Page {}"]'.format(i)

    #button clicking
    driver.find_element(By.XPATH, path).click()

    #html data
    src = driver.page_source
    soup = BeautifulSoup(src, 'lxml')

    #main page of one job data
    lk=soup.findAll(class_="disabled ember-view job-card-container__link")

    #link of a single job data
    for i in lk:
        # links
        li=i['href']

        #every page data
        every_page =BeautifulSoup(driver.page_source,'lxml')

        #movig to link using next window_of_ chrome -- alternative of redirecting to origi
        driver.switch_to.new_window('tab')
        job_link.append("https://www.linkedin.com{}".format(li))
        driver.get("https://www.linkedin.com{}".format(li))


         # company name
        try:
            c_name = driver.find_elements(By.CLASS_NAME,'jobs-unified-top-card__company-na
            name.append(c_name[0].text)
        except:
            name.append("N.A.")

        #designation
        try:
            d = driver.find_elements(By.CLASS_NAME,'jobs-unified-top-card__job-title')
            designation.append(d[0].text)
        except:
            designation.append("N.A.")

        #applicants
        try:
            apl= driver.find_elements(By.XPATH,'/html/body/div[5]/div[3]/div/div[1]/div[1]
            applicants.append(apl[0].text)
        except:
            applicants.append("0")



        #work type
        try:
            w = driver.find_elements(By.CLASS_NAME,'jobs-unified-top-card__workplace-type'
            work_type.append(w[0].text)
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except:
    work_type.append("N.A.")


#involvement
try:
    inv = driver.find_elements(By.CLASS_NAME,'jobs-unified-top-card__job-insight')
    involvement.append(inv[0].text)
except:
    involvement.append("N.A.")

#employee count
try:
    emp = driver.find_elements(By.CLASS_NAME,'jobs-unified-top-card__job-insight')
    emp_count.append(emp[1].text)
except:
    emp_count.append("N.A.")

#location
try:
    loc = driver.find_elements(By.CLASS_NAME,'jobs-unified-top-card__bullet')
    location.append(loc[0].text)
except:
    location.append("N.A.")

#every page data
every_page =BeautifulSoup(driver.page_source,'lxml')


# details
s = []
src = driver.page_source
soup = BeautifulSoup(src, 'lxml')
detail = soup.findAll(class_='ember-view t-black t-normal')
for z in detail:
    s.append(z)

# selecting new jobs
for i in s:
    pr = i['href']

    #movig to link using next window_of_ chrome
    driver.switch_to.new_window('tab')
    driver.get("https://www.linkedin.com{}".format(pr))

    time.sleep(6)

    #industry
    try:
        ind = driver.find_elements(By.CLASS_NAME,'org-top-card-summary-info-list__
        industry.append(ind[0].text)
    except:
        industry.append("not specify")

    #followers
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            try:
                follow = driver.find_elements(By.XPATH,'//*[@id="ember28"]/div[2]/div[1]/d
                linkedin_followers.append(follow[0].text)
            except:
                linkedin_followers.append("N/A")


            #close current window
            driver.close()
            #switch to main(starting) tab/window
            driver.switch_to.window(driver.window_handles[-1])


        # close current window
        driver.close()
        #switch to main (starting) tab/window
        driver.switch_to.window(driver.window_handles[0])



#checking length of lists

len(name), len(location), len(applicants), len(designation),len(emp_count),len(industry),l


#creating tables using pandas

main_table = pd.DataFrame({'name':name,'employees_count':emp_count,'linkedin_followers':li



import openpyxl

main_table.to_excel('main_table.xlsx', sheet_name='sheet_1')
```