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from selenium import webdriver
from selenium.webdriver.common.action_chains import ActionChains
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.by import By
import time
from selenium.webdriver.support import ui
from selenium.webdriver.support import expected_conditions as EC
from selenium.webdriver.support.ui import WebDriverWait

PATH1 = "c:\\Users\\wally\\Documents\\Chrome\\chromedriver.exe"
driver = webdriver.Chrome(PATH1)

def launch_salesforce(user, psw):
    driver.get(address)

    username = driver.find_element_by_xpath('//*[@id="username"']')
    password = driver.find_element_by_xpath('//*[@id="password"']')
    username.send_keys(user)
    password.send_keys(psw)
    button = driver.find_element_by_xpath('//*[@id="Login"']')
    button.send_keys(Keys.RETURN)
    driver.maximize_window()
    time.sleep(3)
    #home = driver.find_element_by_xpath('//*[@title="Home"']')
    return "Passed Login"

def validate_menubar_item(label):
    item = driver.find_element_by_xpath(label)
    item.send_keys(Keys.RETURN)
    time.sleep(3)
    return "Passed Home click"

def validate_iconbar_image(elem):
    driver.implicitly_wait(5)
    i = 0
    try:
        win = driver.find_element_by_xpath("//button[@title='Close this window'"]')
        i = 1
        win.click()
        i = 2
        print ("Found Ad Popup")
    except:
        if i == 0:
            print("Ad Popup not found")
        else:
            print("Close button is not clickable")

    i = 0
    driver.implicitly_wait(5)
    # object of ActionChains
    a = ActionChains(driver)

    try:

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        icon = driver.find_element_by_xpath(elem)
        #icon = ui.WebDriverWait(driver,
10).until(EC.element_to_be_clickable((By.CSS_SELECTOR, "#span.uiImage")))
        #icon = driver.find_element_by_css_selector("span.uiImage")
        #icon = driver.findElement(By.cssSelector("ul.slds-global-
actions>li:nth-child(8)"))
        #icon = driver.find_element(By.CSS_SELECTOR,
'span.uiImage').send_keys("webElement")
        i = 1
        # hover over element and click
        a.move_to_element(icon).perform()
        # move to element operation
        a.click(icon)
        # release the mouse up
        a.release(icon)
        # perform the action
        a.perform()
        # The following actions are considered non-interactable in Selenium
        #icon.send_keys(Keys.RETURN)
        #icon.click()
    except:
        if i == 0:
            print("Image not found")
        else:
            print("Image is not clickable")
            return "Failed View Profile"

    time.sleep(3)
    return "Passed View Profile"

def close_application():
    driver.implicitly_wait(20)
    try:
        driver.find_element_by_xpath('//a[text()="Log Out"]')
        logoff = driver.find_element_by_xpath('//a[text()="Log Out"]')
        logoff.send_keys(Keys.RETURN)
        driver.close()
        return "Passed Close"
    except:
        time.sleep(3)
        driver.close()
        return "Forced Close"

x=launch_salesforce(user, psw)
print(x)
x=validate_menu_bar_item('//a[@title="Home"]')
print(x)
time.sleep(1)
x=validate_icon_bar_image('//span/img[@title="User"]')
print(x)
x=close_application()
print(x)

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