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from selenium import webdriver
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.common.by import By
import time

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(10)
    if driver.find_element_by_xpath("//button[@title='Close this window']"):
        win = driver.find_element_by_xpath("//button[@title='Close this
window']")
        win.click()
        print ("Found Ad Popup")

    #icon = driver.find_element_by_xpath(elem)
    icon = driver.find_elements_by_css_selector("span.tooltip-invisible")
    # The following actions are considered non-interactable in Selenium
    #icon.send_keys(Keys.RETURN)
    icon.click()

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

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

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x=launch_salesforce(user, psw)
print(x)
x=validate_menubar_item('//a[@title="Home"]')
print(x)
time.sleep(1)
x=validate_iconbar_image('//span[@id="tt-for-143:227;a"]')
print(x)
x=close_application()
print(x)
```