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# sf = Salesforce(username=,password=,organizationId=)
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, address):
    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 test_for_popup():
    if driver.find_element_by_xpath("//button[@title='Close this window']"):
        win = driver.find_element_by_xpath("//button[@title='Close this
window'']")
        win.click()
        return "Ad Popup Detected and Closed"
    else:
        return "Ad Popup not Detected"

def validate_menubar_item(label):
    driver.implicitly_wait(10)

    try:
        list = [" "]
        item = driver.find_element_by_xpath(label)
        list.append(label+"- Located")
        item.send_keys(Keys.RETURN)
        list.append(label + "- Clickable")
        time.sleep(3)
        list[0] = "Passed Home Click"
        return list
    except:
        if len(list) == 1:
            list.append(label + "- Not Clickable")
        elif len(list) == 0:
            list.append(label+"- Not Located")

        list[0] = "Failed Home Click"
        return list

def validate_iconbar_image(elem):
    driver.implicitly_wait(10)

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try:
    list = [" "]
    icon = driver.find_element_by_xpath(elem)
    list.append(elem + "- Located")
    # The following actions are considered non-interactable in Selenium
    #icon.send_keys(Keys.RETURN)
    #icon.click()
    list[0] = "Passed View Profile"
    return list
except:
    time.sleep(3)
    list.append(elem + "- Not Located")
    list[0] = "Failed View Profile"
    return list

def close_application():
    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)
        return "Passed Close"
    except:
        time.sleep(3)
        driver.close()
        return "Forced Close"
```