**SELENIUM\_COURSE\_02**

**01 keyboard**

\_\_author\_\_ = 'Administrator'

from selenium import webdriver

from time import sleep

from selenium.webdriver.common.keys import Keys

browser = webdriver.Firefox()

sleep(2)

browser.get("http://127.0.0.1:8080/oa")

sleep(2)

# 登录

browser.find\_element\_by\_xpath('//input[@class="loginInput"]').send\_keys("sup")

sleep(2)

browser.find\_element\_by\_xpath('//input[@name="password"]').send\_keys("s1234567")

sleep(2)

browser.find\_element\_by\_xpath('//input[@id="button\_submit"]').click()

sleep(2)

# 点击新建事项

browser.find\_element\_by\_xpath('//a[contains(text(),"新建")]').click()

sleep(2)

# 输入正文需要切换框架

browser.switch\_to.frame("iframe\_main")

browser.switch\_to.frame("baidu\_editor\_0")

# 定位正文输入框

zhengwen = browser.find\_element\_by\_xpath('/html/body')

zhengwen.send\_keys("今天是收假后第一天，有点不在状态，需要喝一个脉动。。。。。")

sleep(2)

# 在正文中换行5次

zhengwen.send\_keys(Keys.ENTER\*5)

sleep(2)

# 在正文中TAB键3次

zhengwen.send\_keys(Keys.TAB\*3)

sleep(2)

# 在正文中删除10次

zhengwen.send\_keys(Keys.BACK\_SPACE\*10)

sleep(2)

# 在正文中全选、复制、粘贴10次

zhengwen.send\_keys(Keys.CONTROL,'a')

sleep(2)

zhengwen.send\_keys(Keys.CONTROL,'c')

sleep(2)

zhengwen.send\_keys(Keys.CONTROL,'v'\*10)

sleep(2)

browser.quit()

**02 implicity\_wait**

\_\_author\_\_ = 'Administrator'

from selenium import webdriver

from time import sleep

browser = webdriver.Firefox()

browser.get("http://127.0.0.1:8080/oa")

browser.implicitly\_wait(10)

# 使用sup的账号登录

browser.find\_element\_by\_xpath('//input[@class="loginInput"]').send\_keys("sup")

browser.find\_element\_by\_xpath('//input[@name="password"]').send\_keys("s1234567")

browser.find\_element\_by\_xpath('//input[@id="button\_submit"]').click()

# 点击新建事项

browser.find\_element\_by\_xpath('//a[text()="新建事项"]').click()

# 输入标题，需要先切入框架

browser.switch\_to.frame("iframe\_main")

browser.find\_element\_by\_xpath('//input[@id="subject"]').send\_keys("今天是selenium第二天，快要放假了！")

# 点击流程，已经在框架中，不需要切框架

browser.find\_element\_by\_xpath('//input[@id="trackInput"]').click()

sleep(2)

# 点击集团职能部，需要先从之前的框架中切出，然后还需要切入另外一个框架

browser.switch\_to.default\_content()

# 切入流程1的框架，需要先定位这个框架，得到对象以后再切入

liucheng1 = browser.find\_element\_by\_xpath('//iframe[contains(@src,"/oa/common/components/selectemp/selectempforcollaborate.jsp?uuid=")]')

browser.switch\_to.frame(liucheng1)

browser.find\_element\_by\_xpath('//span[text()="集团职能部"]').click()

# 点击总经办

browser.find\_element\_by\_xpath('//span[text()="总经办"]').click()

# 点击添加全部按钮

browser.find\_element\_by\_xpath('//button[@class="button" and @title="添加全部"]').click()

# 点击确定按钮

browser.find\_element\_by\_xpath('//button[contains(text(),"确定")]').click()

sleep(2)

# 点击流程2中的确定按钮，需要从原来的框架中切出，然后再切入第二个框架

browser.switch\_to.default\_content()

liucheng2 = browser.find\_element\_by\_xpath('//iframe[contains(@src,"/oa/common/components/flowchart/newflowchart\_svg.jsp?uuid=")]')

browser.switch\_to.frame(liucheng2)

browser.find\_element\_by\_xpath('//button[contains(text(),"确定")]').click()

# 输入正文，需要先切出原来的框架，然后再切入正文所在的框架

browser.switch\_to.default\_content()

browser.switch\_to.frame("iframe\_main")

browser.switch\_to.frame("baidu\_editor\_0")

browser.find\_element\_by\_xpath('/html/body').send\_keys("今天主要讲框架的切换、网页的操作、鼠标的操作、警告窗口的操作！")

# 点击立即发送按钮，需要切出到上一层框架

browser.switch\_to.parent\_frame()

browser.find\_element\_by\_xpath('//button[@id="button\_send"]').click()

# 点击确定按钮，需要切换到默认框架

browser.switch\_to.default\_content()

browser.find\_element\_by\_xpath('//input[@value="确定" and @class="d-button"]').click()

browser.quit()

**03 webdriver\_wait**

\_\_author\_\_ = 'Administrator'

from selenium import webdriver

from selenium.webdriver.support.wait import WebDriverWait

from selenium.webdriver.support import expected\_conditions as ec

from selenium.webdriver.common.by import By

from selenium.webdriver.common.action\_chains import ActionChains

browser = webdriver.Firefox()

browser.get("http://127.0.0.1:8080/oa")

# 设置动态等待，判断所有符合class属性为logininput的元素全部加载完成，然后再执行后续脚本

# 用到的方法：presence\_of\_all\_elements\_located

WebDriverWait(browser,10).until(ec.presence\_of\_all\_elements\_located((By.CLASS\_NAME,"loginInput")))

# 输入用户名

browser.find\_element\_by\_xpath('//input[@class="loginInput"]').send\_keys("sup")

# 输入密码

browser.find\_element\_by\_xpath('//input[@name="password"]').send\_keys("s1234567")

# 设置动态等待，判断登录按钮的value值是否出现预期的登录两个字

# 用到的方法：text\_to\_be\_present\_in\_element\_value

WebDriverWait(browser,10).until(ec.text\_to\_be\_present\_in\_element\_value((By.ID,"button\_submit"),"登录"))

# 点击登录按钮

browser.find\_element\_by\_xpath('//input[@id="button\_submit"]').click()

# 点击新建事项之前，设置动态等待，判断新建事项是否可以点击

# 用到的方法：element\_to\_be\_clickable

WebDriverWait(browser,10).until(ec.element\_to\_be\_clickable((By.LINK\_TEXT,"新建事项")))

# 点击新建事项

browser.find\_element\_by\_xpath('//a[text()="新建事项"]').click()

# 输入正文，需要切入框架，设置动态等待，判断框架是否加载出来

# 用到的方法：frame\_to\_be\_available\_and\_switch\_to\_it

WebDriverWait(browser,10).until(ec.frame\_to\_be\_available\_and\_switch\_to\_it("iframe\_main"))

WebDriverWait(browser,10).until(ec.frame\_to\_be\_available\_and\_switch\_to\_it("baidu\_editor\_0"))

# 设置动态等待，判断正文输入框是否出现

# 用到的方法：presence\_of\_element\_located

WebDriverWait(browser,10).until(ec.presence\_of\_element\_located((By.XPATH,"/html/body")))

# 定位正文输入框

zhengwen = browser.find\_element\_by\_xpath('/html/body')

zhengwen.send\_keys("今天天气有点凉")

# 点击清空文档，需要先对正文进行右击，然后切出框架，再设置动态等待，判断元素的文本值是否为期望的“清空文档”

# 用到的方法：text\_to\_be\_present\_in\_element

ActionChains(browser).context\_click(zhengwen).perform()

browser.switch\_to.parent\_frame()

WebDriverWait(browser,10).until(ec.text\_to\_be\_present\_in\_element((By.XPATH,"/html/body/div[4]/div[5]/div/div[2]/div/div[2]/div/div[3]"),"清空文档"))

# 点击清空文档

browser.find\_element\_by\_xpath('/html/body/div[4]/div[5]/div/div[2]/div/div[2]/div/div[3]').click()

# 对警告窗口进行操作，需要设置的动态等待，判断警告窗口是否出现

# 用到的方法：alert\_is\_present

alert = WebDriverWait(browser,10).until(ec.alert\_is\_present())

# 获取警告窗口中的文本，然后点击确定按钮

text = alert.text

print(text)

alert.accept()

browser.quit()

**04 函数调用**

1. **User\_login**

\_\_author\_\_ = 'Administrator'

from selenium.webdriver.support.wait import WebDriverWait

from selenium.webdriver.support import expected\_conditions as ec

from selenium.webdriver.common.by import By

from selenium\_day3.shijianchuo.def\_shijianchuo import jietu

# 定义函数，实现用户登录的过程

def login\_sup(browser):

try:

browser.get("http://127.0.0.1:8080/oa")

# 设置动态等待，判断所有符合class属性为logininput的元素全部加载完成，然后再执行后续脚本

# 用到的方法：presence\_of\_all\_elements\_located

WebDriverWait(browser,10).until(ec.presence\_of\_all\_elements\_located((By.CLASS\_NAME,"loginInput")))

# 输入用户名

browser.find\_element\_by\_xpath('//input[@class="loginInput"]').send\_keys("sup")

# 输入密码

browser.find\_element\_by\_xpath('//input[@name="password"]').send\_keys("s1234567")

# 设置动态等待，判断登录按钮的value值是否出现预期的登录两个字

# 用到的方法：text\_to\_be\_present\_in\_element\_value

WebDriverWait(browser,10).until(ec.text\_to\_be\_present\_in\_element\_value((By.ID,"button\_submit"),"登录"))

# 点击登录按钮

browser.find\_element\_by\_xpath('//input[@id="button\_submit"]').click()

except Exception as e:

jietu(browser,"登录报错")

raise e

# 定义函数，实现使用不同的用户名密码登录的过程

def login\_by\_different\_username\_password(browser,username,password):

try:

browser.get("http://127.0.0.1:8080/oa")

# 设置动态等待，判断所有符合class属性为logininput的元素全部加载完成，然后再执行后续脚本

# 用到的方法：presence\_of\_all\_elements\_located

WebDriverWait(browser,10).until(ec.presence\_of\_all\_elements\_located((By.CLASS\_NAME,"loginInput")))

# 输入用户名

browser.find\_element\_by\_xpath('//input[@class="loginInput"]').clear()

browser.find\_element\_by\_xpath('//input[@class="loginInput"]').send\_keys(username)

# 输入密码

browser.find\_element\_by\_xpath('//input[@name="password"]').send\_keys(password)

# 设置动态等待，判断登录按钮的value值是否出现预期的登录两个字

# 用到的方法：text\_to\_be\_present\_in\_element\_value

WebDriverWait(browser,10).until(ec.text\_to\_be\_present\_in\_element\_value((By.ID,"button\_submit"),"登录"))

# 点击登录按钮

browser.find\_element\_by\_xpath('//input[@id="button\_submit"]').click()

except Exception as e:

jietu(browser,"登录报错")

raise e

\_\_author\_\_ = 'Administrator'

from selenium import webdriver

from selenium\_day3.user\_login import def\_user\_login

from time import sleep

browser = webdriver.Firefox()

# def\_user\_login.login\_sup(browser)

def\_user\_login.login\_by\_different\_username\_password(browser,"sup","s1234567")

sleep(2)

def\_user\_login.login\_by\_different\_username\_password(browser,"supppppp","s1234567")

sleep(2)

browser.quit()

1. **time screen\_shot**

\_\_author\_\_ = 'Administrator'

from time import localtime,strftime

# 定义函数，时间生成当前时间的时间戳

def shijianchuo():

# 获取当前时间

current\_time = localtime()

# 将获取到的时间转换为标准的输出格式

change\_time = strftime("%Y%m%d%H%M%S",current\_time)

return change\_time

# 定义函数，实现截图

def jietu(browser,text):

# 确定截图的保存路径、图片的名字、图片的格式

file\_name = "D:\\zhaojia\\selenium\\selenium\_105\\selenium\_study\\picture\\"+text+shijianchuo()+".png"

# 截图

browser.get\_screenshot\_as\_file(file\_name)

\_\_author\_\_ = 'Administrator'

from selenium import webdriver

from selenium.webdriver.support.wait import WebDriverWait

from selenium.webdriver.support import expected\_conditions as ec

from selenium.webdriver.common.by import By

# from selenium\_day3.shijianchuo import def\_shijianchuo

from selenium\_day3.shijianchuo.def\_shijianchuo import jietu

browser = webdriver.Firefox()

browser.get("http://127.0.0.1:8080/oa")

WebDriverWait(browser,10).until(ec.presence\_of\_all\_elements\_located((By.CLASS\_NAME,"loginInput")))

# 输入用户名

browser.find\_element\_by\_xpath('//input[@class="loginInput"]').send\_keys("sup")

# 输入密码

browser.find\_element\_by\_xpath('//input[@name="password"]').send\_keys("s1234567")

# 设置动态等待，判断登录按钮的value值是否出现预期的登录两个字

# 用到的方法：text\_to\_be\_present\_in\_element\_value

WebDriverWait(browser,10).until(ec.text\_to\_be\_present\_in\_element\_value((By.ID,"button\_submit"),"登录"))

# 点击登录按钮

browser.find\_element\_by\_xpath('//input[@id="button\_submit"]').click()

# 点击新建事项之前，设置动态等待，判断新建事项是否可以点击

# 用到的方法：element\_to\_be\_clickable

WebDriverWait(browser,10).until(ec.element\_to\_be\_clickable((By.LINK\_TEXT,"新建事项")))

# def\_shijianchuo.jietu(browser,"首页截图")

jietu(browser,"首页截图")

browser.quit()

**4) element\_exit**

\_\_author\_\_ = 'Administrator'

from selenium\_day3.shijianchuo.def\_shijianchuo import jietu

from time import sleep

# 定义函数，通过xpath来判断元素是否存在，如果存在则返回true，否则返回False

def element\_exit\_by\_xpath(browser,elexpath):

if browser.find\_element\_by\_xpath(elexpath):

return True

else:

return False

# 定义函数，结合try和except来判断元素是否存在，通过link\_text来判断

def element\_exit\_by\_link\_text(browser,text):

try:

browser.find\_element\_by\_link\_text(text)

return True

except:

return False

# 定义函数，实现判断链接是否存在，如果存在则截图，否则输出“链接未找到”

def text\_click\_jietu(browser,text):

result = element\_exit\_by\_link\_text(browser,text)

if result==True:

browser.find\_element\_by\_link\_text(text).click()

sleep(2)

jietu(browser,text)

else:

print("链接未找到。。。。。")

\_\_author\_\_ = 'Administrator'

from selenium import webdriver

from time import sleep

from selenium\_day3.element\_exit import def\_element\_exit

browser = webdriver.Firefox()

browser.get("http://127.0.0.1:8080/oa")

sleep(2)

# 调用函数，判断用户名输入框是否存在

username\_ele = def\_element\_exit.element\_exit\_by\_xpath(browser,'//input[@class="loginInput"]')

if username\_ele == True:

browser.find\_element\_by\_xpath('//input[@class="loginInput"]').send\_keys("sup")

else:

print("用户名输入框未找到。")

# 调用函数，判断密码输入框是否存在

password\_ele = def\_element\_exit.element\_exit\_by\_xpath(browser,'//input[@name="password"]')

if password\_ele==True:

browser.find\_element\_by\_xpath('//input[@name="password"]').send\_keys("s1234567")

else:

print("密码输入框未找到。。。。")

# 调用函数，判断登录按钮是否存在

login\_button = def\_element\_exit.element\_exit\_by\_xpath(browser,'//input[@id="button\_submit"]')

if login\_button == True:

browser.find\_element\_by\_xpath('//input[@id="button\_submit"]').click()

else:

print("登录按钮未找到。。。。")

sleep(2)

# def\_element\_exit.text\_click\_jietu(browser,"新建事项")

# def\_element\_exit.text\_click\_jietu(browser,"已发事项")

# def\_element\_exit.text\_click\_jietu(browser,"已办事项")

# def\_element\_exit.text\_click\_jietu(browser,"待发事项")

# def\_element\_exit.text\_click\_jietu(browser,"待办事项")

# def\_element\_exit.text\_click\_jietu(browser,"综合查询")

# def\_element\_exit.text\_click\_jietu(browser,"退出登录")

list1 = ["新建事","已发事项","已办事项","待发事项","待办事项","综合查询","退出登录"]

for i in list1:

def\_element\_exit.text\_click\_jietu(browser,i)

sleep(2)

browser.quit()