**WEBELEMENTS**

from selenium import webdriver

# Imported the library

driver = webdriver.Firefox() # calling the browser

driver.maximize\_window() # calling the maximize\_window method

driver.get("https://opensource-demo.orangehrmlive.com/")

# passed the url in get method

username = driver.find\_element\_by\_name("txtUsername")

#searching the username textfield using by\_name stored under the variable

enablestatus = username.is\_enabled()

# is.enabled() to check whether the text is enabled or not in the ui

distatus = username.is\_displayed()

# is.displayed() to check whether the text is displayed or not in the ui

print(enablestatus)

# returns the boolean value i.e true or false

print(distatus)

# returns the coolean value i.e true or false

username.clear()

# clear() os used to clear the text field before it is being used

attrdata = username.get\_attribute("type")

# it will return the attribute type either text,int,etc

print(attrdata)

fontvalue = username.value\_of\_css\_property("font-size")

#value\_of\_css\_property returns css used here for font size

#here expexted is 11px

fontfamily = username.value\_of\_css\_property("font-family")

#value\_of\_css\_property returns css used here for font family

#here expexted is Arial

print(fontvalue,fontfamily)

#printed the value of css

#sending the "Admin" text using send\_keys

username.send\_keys("Admin")

#we can write it in the single line

driver.find\_element\_by\_id("txtPassword").send\_keys("admin123")

driver.find\_element\_by\_class\_name("button").click()

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**USING “BY” CLASS**

Syntax:---

def find\_element(self, by=By.ID, value=None) -> WebElement

class By(object):

    """

    Set of supported locator strategies.

    """

    ID = "id"

    XPATH = "xpath"

    LINK\_TEXT = "link text"

    PARTIAL\_LINK\_TEXT = "partial link text"

    NAME = "name"

    TAG\_NAME = "tag name"

    CLASS\_NAME = "class name"

    CSS\_SELECTOR = "css selector"

Program :------------

from selenium import webdriver

from selenium.webdriver.common.by import By

driver = webdriver.Firefox()

driver.maximize\_window()

driver.get("https://opensource-demo.orangehrmlive.com/")

driver.find\_element(by=By.NAME,value='txtUsername').send\_keys("Admin")

"""             OR we can write                 """

driver.find\_element("name",value='txtUsername').send\_keys("Admin")

driver.find\_element(by=By.ID,value='txtPassword').send\_keys("admin123")

"""         or we can write like this also          """

driver.find\_element("id",value='txtPassword').send\_keys("admin123")

driver.find\_element(by=By.CLASS\_NAME,value='button').click()

"""         or we can write like this also        """

driver.find\_element("class name",value='button').click()

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**USING XPATH & CSS SELECTOR**

from selenium import webdriver

from selenium.webdriver.common.by import By

import time

driver = webdriver.Firefox()

driver.maximize\_window()

driver.get("https://opensource-demo.orangehrmlive.com/")

"""//input[@id='txtUsername']"""

driver.find\_element(by=By.XPATH,value="//input[@id='txtUsername']").send\_keys("Admin")

<input name="txtPassword" id="txtPassword" autocomplete="off" type="password">

""" input[type='password']  here taking the type=”password” as css\_selector"""

driver.find\_element(by=By.CSS\_SELECTOR,value="input[type='password']").send\_keys("admin123")

"""  //input[@value='LOGIN']   """

driver.find\_element(by=By.XPATH,value="//input[@value='LOGIN']").click()

print("url after login is ",driver.current\_url)

assert "dashboard" in driver.current\_url

"""this is an anchor tag  //a[contains(text(),'Welcome')] """

driver.find\_element(by=By.XPATH,value="//a[contains(text(),'Welcome')]").click()

time.sleep(3)

"""this is an achor tag //a[contains(text(),'Logout')] """

driver.find\_element(by=By.XPATH,value="//a[contains(text(),'Logout')]").click()

print("after logut",driver.current\_url)

assert "login" in driver.current\_url

driver.quit()

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**LINK\_TEXT || PARTIAL\_LINK\_TEXT || TAG\_NAME**

from selenium import webdriver

from selenium.webdriver.common.by import By

import time

driver = webdriver.Firefox()

driver.maximize\_window()

driver.get("https://opensource-demo.orangehrmlive.com/")

"""

LINK\_TEXT is used to for the text present for a link

"""

linktxt = driver.find\_element(by=By.LINK\_TEXT,value="Forgot your password?")

linktxt.click()

"""When the links are dynamic in nature then we use partial\_link

and at the same time , no need of the full text ,the element

name suggest PARTIAL\_LINK\_TEXT partial text is enough as shown below"""

parlinktxt = driver.find\_element(by=By.PARTIAL\_LINK\_TEXT,value="Forgot")

parlinktxt.click()

"""

TAG\_NAME is used to find a tag like a,img,etc

"""

driver.find\_element(by=By.TAG\_NAME,value="a").click()

"""

from the above it will search the webpage and the 1st a tag will be executed

"""

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**difference between findelement and findelements in selenium python**

* The findElement method is used to work with one matching web element at a time. The findElements method is used to work with a list of matching elements.
* If there is no matching element found on the page, findElement throws a NoSuchElementException whereas an empty list is returned if there are no matching elements on the page.

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