

## **Assignment-2**

### **Locators In Selenium**

URL: <http://www.automationpractice.pl/index.php>

Question:1

- i) Locate a search bar on the page using its ID. Enter the term “search box” and submit the search.
- ii) What are the advantages of using an ID locator? When might it not be the best choice?

```
import time
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.chrome.service import Service

sobj=Service(r"D:\BEBO-tech\drivers\chromedriver-win64\chromedriver.exe")
driver=webdriver.Chrome(service=sobj)
driver.get("http://www.automationpractice.pl/index.php")
driver.find_element(By.XPATH,"//*[@class='_blank']").click()
time.sleep(2)
```

Question:2

- i) Locate a Search button or input field using the name attribute. Perform an action (e.g., clicking or entering text).
- ii) How does Selenium handle multiple elements with the same name attribute?

```
import time
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.chrome.service import Service

sobj=Service(r"D:\BEBO-tech\drivers\chromedriver-win64\chromedriver.exe")
driver=webdriver.Chrome(service=sobj)
driver.get("http://www.automationpractice.pl/index.php")
searchBox=driver.find_element(By.NAME,"search_query")
searchBox.send_keys("search box")
time.sleep(2)
clk=driver.find_element(By.NAME,"submit_search")
clk.click()
```

#### Question:3

- i) Locate an element (like a "Sign In" button) using its class name and perform a click action.
- ii) What limitations might you encounter when using class name as a locator?

import time

from selenium import webdriver

from selenium.webdriver.chrome.service import Service

from selenium.webdriver.common.by import By

serviceObj=Service(r"D:\BEBO-tech\drivers\chromedriver-win64\chromedriver.exe")

dr=webdriver.Chrome(service=serviceObj)

dr.get("http://www.automationpractice.pl/index.php?controller=authentication&back=my-account")

# signup

sEmail=dr.find\_element(By.CLASS\_NAME,"is\_required")

sEmail.send\_keys("satwinder@gmail.com")

time.sleep(3)

dr.find\_element(By.ID,"SubmitCreate").click()

time.sleep(3)

#### Question:4

Find an element by its tag name (e.g., finding the first <h1> on the page) and print its text content.  
In what scenarios is tag name most useful as a locator?

from selenium import webdriver

from selenium.webdriver.chrome.service import Service

from selenium.webdriver.common.by import By

serviceObj=Service(r"D:\BEBO-tech\drivers\chromedriver-win64\chromedriver.exe")

dr=webdriver.Chrome(service=serviceObj)

dr.get("http://www.automationpractice.pl/index.php")

# signup

h1=dr.find\_element(By.TAG\_NAME,"h3").text

print(h1)

#### Question:5

Locate a specific link using its visible text (e.g., a link with text "Contact Us") and click on it.  
When is it advantageous to use link text over other locators?

```

import time

from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.by import By

serviceObj=Service(r"D:\BEBO-tech\drivers\chromedriver-win64\chromedriver.exe")
dr=webdriver.Chrome(service=serviceObj)
dr.get("http://www.automationpractice.pl/index.php")
# signup
dr.find_element(By.LINK_TEXT,"Sign in").click()
time.sleep(5)

```

#### Question:6

Locate a link using part of its visible text ( "Contact us ") and click on it.  
How does partial link text differ in behavior from link text?

```

import time

from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.by import By

serviceObj=Service(r"D:\BEBO-tech\drivers\chromedriver-win64\chromedriver.exe")
dr=webdriver.Chrome(service=serviceObj)
dr.get("http://www.automationpractice.pl/index.php")
# signup
dr.find_element(By.LINK_TEXT,"Contact us").click()
time.sleep(5)

```

#### Question:7

Use a CSS Selector to locate a button by its class and ID and perform a click action.  
Why might you choose CSS Selectors over XPath?

```

import time

from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.chrome.service import Service

sobj=Service(r"D:\BEBO-tech\drivers\chromedriver-win64\chromedriver.exe")
driver=webdriver.Chrome(service=sobj)
driver.get("http://www.automationpractice.pl/index.php")
searchBox=driver.find_element(By.NAME,"search_query")

```

```
searchBox.send_keys("search box")
time.sleep(2)
clk=driver.find_element(By.CSS_SELECTOR,"button[name=submit_search]")
clk.click()
```

#### Question:8

Use XPath to locate an element(Follow us on Facebook ) with a specific attribute and perform a click action.

How can relative XPath be beneficial over absolute XPath?

```
import time
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.chrome.service import Service
```

```
sobj=Service(r"D:\BEBO-tech\drivers\chromedriver-win64\chromedriver.exe")
driver=webdriver.Chrome(service=sobj)
driver.get("http://www.automationpractice.pl/index.php")
driver.find_element(By.XPATH,"//*[@class='_blank']").click()
time.sleep(2)
```

#### Question:9

Use a combination of locators (e.g., CSS selector for a parent element and then locate a child element using XPath) to find a specific element.

In what situations would combining locators be helpful?