Selenium Hands-on Training – Class 5

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Recap of previous session

- How to install TestNG jar and TestNG plugin ?
- What is TestNG?
- How to create TestNG.xml and various features available in TestNG
- TestNG annotations
- TestNG reports

Agenda for the day

- Various web elements and it's properties
- How to write x-paths in different type of applications
- Driver capabilities

Types of Web elements

- Edit box - input
- Link - <a>
- Button – input, button
- Image, image link, an image button
- Text area
- Checkbox
- Radio button
- Dropdown list
- Web Table
- Alert
- Windows
- frames

Different Web element locators in Selenium

XPath Locators	Find different elements on web page
ID	To find the element by ID of the element
Classname	To find the element by Classname of the element
Name	To find the element by name of the element
Link text	To find the element by text of the link
XPath	XPath required for finding the dynamic element and traverse between various elements of the web page
CSS path	CSS path also locates elements having no name, class or ID.

XPath in Selenium

- Xpath means XML Path
- This is to uniquely locate an element on the webpage.
- When to choose Xpath ?

Types of Xpath
- Absolute Xpath
- Relative Xpath

- Xpath = //tagname[@attribute='value']
/ - from root
// - anywhere in DOM

Examples

- Simple XPath
- Xpath=//*[contains(text(),'Selenium')]
- Xpath=//*[contains(@name, 'Selenium')]
- Xpath=//*[@type='submit' or @name='Selenium']
- Xpath=//label[starts-with(@id,'Selenium')]

Assignment for the day

- Please try to perform actions on all the elements in the below webpage by using various available properties & xpath.

- https://cosmocode.io/automation-practice/

Before Group and After Group

- Adding the group name in line 41, 46 is make the method to execute before, after the mentioned groups

```
41    @BeforeGroups (groups = { "Group-1" })
42    public void BG(){
43
44        System.out.println("Hello I am executing before each test group");
45    }
46    @AfterGroups (groups = { "Group-1" })
47    public void AG(){
48
49        System.out.println("Hello I am executing after each test group");
50    }
51    @BeforeClass
52    public void BC(){
53
```

```
Problems    @ Javadoc    Declaration    Console  X    Progress    Results of running suite
<terminated> SeleniumDemo_TestNG.xml [TestNG] /Library/Java/JavaVirtualMachines/jdk-17.0.1.jdk/Contents/Home/bin
[RemoteTestNG] detected TestNG version 7.4.0
...
... TestNG 7.4.0 by Cédric Beust (cedric@beust.com)
...

Hello I am executing before each test group
Hello I am Group 1 test case-1
Hello I am Group 1 test case-2
Hello I am executing after each test group
===== Invoked methods
    TestSuite2.G1TC1()[pri:0, instance:testSuites.TestSuite2@1cbbffcd]
    TestSuite2.G1TC2()[pri:0, instance:testSuites.TestSuite2@1cbbffcd]
=====
PASSED: G1TC2
FAILED: G1TC1
```

In the next class…

- Selenium core functions
- Waits in Selenium