

Selenium Sudhakar

Java SQL Agile Scrum CUCUMBER GuideWire

Browser	Selenium Grid	Day_013_InvocationCount	TestNG Annotations	Day_018_Waits
Get_vs_Navigate	Selenium Limitations	Day_005_TestNG_DataProvider_Lab1	TestNG_Parameters1	Day_019_Frames
Day_004_Dropdown	Selenium Featues	Day_006_TestNG_DataProvider_Lab2	Day_014_015_Parallel_Methods_Tests	Day_020_Multiple_Windows
OR1_applicationProperties	Selenium Challanges	Day_007_Browser_Compatability_Testing	Day_016_ParallelClasses	Day_021_Java_Script_Executer
OR1_Excel	Web Table	Day_025_ExcelUtil_Apache_POI	Day_017_Multiple_Suites	Day_022_Action_class
Xpath_vs_cssSelector	Capcha	Proxy Setting	Day_032_TestNG_Groups	Day_027_Alerts
cssSelector	Assertions	Dimesions	Day_034_TestNG_Listeners	Day_026_TakeScreenShot
Day_024_Advanced_Xpaths	Page Object Model	Keyword Driven	TestNG_Priority	Day_023_Robot_Class
Day_41_Exceptions	Page Factory Model	Interfaces	dependsOnMethods	Day_025_ExcelUtil_Apache_POI
Web Element Border	Web Element Color	Classes in Selenium	BrokenLinks	Emailable Report
Locators in Selenium	FindElement vs Find Elements	Number of Hyperlinks	Extent Report1	SSL Certificate
Page Load Strategy	Relative Locators	Selenium Suite	Chrome Options	Preserve Order
Maven Life Cycle - Pom.xml	HeadLess Browser	is Displayed - is Enabled - is Selected	Navigate_Get	Quit_Close
			Tell me about your self	HeadLess Browser
is Displayed - is Enabled - is Selected	Navigate_Get	Quit_Close		

Absolute Xpath : Identifying the xpath from root node to current node

```
static String username="/html/body/div[1]/div/div[3]/div[2]/div[2]/form/div[2]/input";  
  
//UserName  
findElement(By.xpath(username)).sendKeys("Admin");
```

When ever developer add/modify/delete the HTML page script , then absolute xpaths will be changed , So absolute xpath is not recommended

Relative Xpath Identifying the xpath based on it's Object Properties

```
public static String UserName="//*[@id='txtUsername']";  
public static String Password="//*[@id='txtPassword']";  
public static String Loginbutton="//*[@id='btnLogin']";  
public static String Admin="//*[@id='menu_admin_viewAdminModule']/b";  
public static String Nationality="//*[@id='menu_admin_nationality']";  
  
findElement(By.xpath(UserName)).sendKeys("Admin");  
findElement(By.xpath>Password)).sendKeys("admin123");  
findElement(By.xpath(Loginbutton)).click();  
  
findElement(By.xpath(Admin)).click();  
findElement(By.xpath(Nationality)).click();
```

So I will prefer relative xpath

```
<input name="txtUsername" id="txtUsername" type="text">
```

Difference between contains & starts-with

```
//*[contains(text(),'Nationalit')];
```

My Nationalities

Our Natioanlities

Nationalities

```
//*[starts-with(text(),'Nationalit')]
```

Nationalities

```
//*[@id="txtUsername"]//parent::div
```

--> Immediate Parent

```
//*[@id="txtUsername"]//ancestor::div[1]
```

--> Parent & Grand Parent

```
//*[@id='divUsername']//child::input
```

--> Child Element

```
//*[@id='divUsername']//descendant::input
```

--> Child Element

Difference between Following vs Following-sibling ?

following-siblings:

Identifying the web elements xpath having the same level of hierarchy in the HTML DOM page

```
findElement(By.xpath("//*[@id='divUsername']"));
findElement(By.xpath("//*[@id='divUsername']//following-sibling::div"));
```

Following :

Identifying the following webelement xpath's from the current webElement xpath

```
findElement(By.xpath("//*[@id='txtUsername']")).sendKeys("Admin");
findElement(By.xpath("//*[@id='txtUsername']//following::input[1]")).sendKeys("admin123");
findElement(By.xpath("//*[@id='txtUsername']//following::input[2]")).click();
```

```
<div class='state-name fadeInUp'>Kerala</div>  
//div[ @class='state-name fadeInUp']      //div[text()='Kerala']  
                                           //*[text()='Admin']  
  
https://www.covid19india.org/  
  
//div[text()='Kerala']  
//div[text()='Kerala']//following::div[5]  
  
//div[text()='Kerala']//following::div[5]
```

```
//*[contains(text(), 'Nationalit')]";  
//*[@id="location_country"]//preceding::input[1]  
//*[@id="location_country"]//following::input[1]
```

Advanced xpath Techniques

Absolute X-path	<pre>String username="/html/body/div[1]/div/div[3]/div[2]/div[2]/form/div[2]/input"; //UserName findElement(By.xpath(username)).sendKeys("Admin");</pre>
Relative X-path	<pre>String Login1_Xpath1="//input[@type='submit' and @id='btnLogin']"; findElement(By.xpath(Login1_Xpath1)).click();</pre>
text()	<pre>String Nationality_xpath = "//a[text()='Nationalities']"; findElement(By.xpath("//b[text()='Admin']")).click(); findElement(By.xpath("//a[text()='Nationalities']")).click();</pre>
contains(text())	<pre>String Nationality_xpath1="//*[contains(text(),'Nationaliti')]"; findElement(By.xpath(Nationality_xpath1)).click();</pre>
starts-with(text())	<pre>String Nationality_xpath = "//*[starts-with(text(),'Nationa')]"; findElement(By.xpath(Nationality_xpath1)).click();</pre>
//following::tagname	<pre>findElement(By.xpath("//*[@id='txtUsername']")).sendKeys("Admin"); findElement(By.xpath("//*[@id='txtUsername']//following::input[1]")).sendKeys findElement(By.xpath("//*[@id='txtUsername']//following::input[2]")).click();</pre>
//ancestor::tagname	<pre>findElement(By.xpath("//*[@id='txtUsername']")); Thread.sleep(5000); findElement(By.xpath(" //*[@id='txtUsername']//ancestor::div[1] "));</pre>
//child::tagname	<pre>findElement(By.xpath("//*[@id='divUsername']")); findElement(By.xpath(" //*[@id='divUsername']//child::input[1] ")).send</pre>

//preceding::tagname	<pre>//UserName findElement(By.xpath("//*[@type='submit']//preceding::input[2]")).sendKeys("1234567890"); //Password findElement(By.xpath("//*[@type='submit']//preceding::input[1]")).sendKeys("1234567890"); //Login findElement(By.xpath("//*[@type='submit']"));</pre>
//following-sibling::tagname	<pre>findElement(By.xpath("//*[@id='divUsername']")); findElement(By.xpath("//*[@id='divUsername']//following-sibling::div"));</pre>
//parent::tagname	<pre>findElement(By.xpath("//*[@id='txtUsername'] ")); findElement(By.xpath("//*[@id='txtUsername']//parent::div[1]"));</pre>
//descendant::tagname	<pre>//UserName findElement(By.xpath("//*[@id='divUsername']")); findElement(By.xpath("//*[@id='divUsername']//descendant::input[1]")).sendKeys("1234567890");</pre>