## **Selenium – Notes**

Selenium Web Driver Locators

* As part of Automation, Selenium Performs actions (such as click, typing) on the Page HTML Elements.

* The Locators are the way to identify an *HTML* element on a web page.   
  Selenium WebDriver uses any of the below locators to identify the element on the page and performs the Action

ID

e.g: driver.findElement(By.*id*("inputUsername")).sendKeys("Dk");

Xpath

e.g: driver.findElement(By.*xpath*("//input[@placeholder='Name']")).sendKeys("John");

CSS Selector

e.g: [driver.findElement(By.*cssSelector*("input[placeholder='Email']")).sendKeys("john@rsa.com](mailto:driver.findElement(By.cssSelector("input[placeholder='Email']")).sendKeys("john@rsa.com)");

Name

e.g: driver.findElement(By.*name*("inputPassword")).sendKeys("hello123");

Class Name :   
in class name if we have spaces you can use anyone or replace the spaces with. E.g: driver.findElement(By.*className*("signInBtn")).click();

Tag Name

e.g: System.***out***.println(driver.findElement(By.*tagName*("p")).getText());

Link Text

**e.g:** driver.findElement(By.*linkText*("Forgot your password?")).click();

Partial Link Text

<input class="form-control ng-pristine ng-invalid ng-touched" minlength="2" name="name" required="" type="text">

Input -> tag name.

Red -> attribute.

Green -> attribute associated value.

// example for combination of 3 selectors like path,indexing,parent to child  
  
driver.findElement(By.*xpath*("//div[@class='forgot-pwd-btn-conainer']/button[1]")).click();

Css Selector-

* Class name -> tagname.classname ->

e’g: System.***out***.println(driver.findElement(By.*cssSelector*("p.error")).getText());

* Id -> tagname#id -> input#inputUsername

Or driver.findElement(By.*cssSelector*("#inputUsername")).sendKeys("Dinesh");

* Tagname[attribute=’value’]

<input type="text" placeholder="Username” value=" ">

Input [placeholder=’ Username’]

e.g: [driver.findElement(By.*cssSelector*("input[placeholder='Email']")).sendKeys("john@rsa.com](mailto:driver.findElement(By.cssSelector("input[placeholder='Email']")).sendKeys("john@rsa.com)");

* //Tagname[@attribute=’value’]:nth-child(index). - Child items

e.g: [driver.findElement(By.*cssSelector*("input[type='text']:nth-child(3)")).sendKeys("john@gmail.com](mailto:driver.findElement(By.cssSelector("input[type='text']:nth-child(3)")).sendKeys("john@gmail.com)");

Parent Tage to child Tage: System.***out***.println

(driver.findElement(By.*cssSelector*("div[id='content'] div h3")).getText());

* Parenttagname childtagname

System.***out***.println(driver.findElement(By.*cssSelector*("form p")).getText());

// here we can get the selector based on the parent to child tags using parent tag and child tag like parenttag space childtag

* input[type\*='pass']

// if we use a \* it will scan all the partial value like that you passed inside the single quotes

// if you seen space between the class name it's a 2 class name you can take one class name or remove space between class name and replace with . dot

* .classname

// For Example : driver.findElement(By.*cssSelector*(".reset-pwd-btn")).click();

* tagname

e.g: System.***out***.println(driver.findElement(By.*tagName*("p")).getText());

To scan the partial value in css   
 e.g: driver.findElement(By.*cssSelector*("input[type\*='pass']")).sendKeys("rahulshettyacademy"); // if we use a \* it will scan all the partial value like that

Image based css

driver.findElement(By.*cssSelector*("a[href\*='windows']")).click();

For example if you seen this kind of image you can use like ablove one href="/windows/new

Xpath

* //Tagname[@attribute=’value’]

//input[@placeholder=’ Username’’]

e.g: driver.findElement(By.*xpath*("//input[@placeholder='Name']")).sendKeys("John");

<input type="text" placeholder="Name">

//input[@placeholder=’ Name’]

* //Tagname[@attribute=’value’][index]

e.g: driver.findElement(By.*xpath*("//input[@type='text'][2]")).clear();

* //parentTagname/childTagname - Parent Tage to child Tage: System.***out***.println(driver.findElement(By.*xpath*("//div[@id='content']/div/h3")).getText());
* //button[contains(@class,'submit')]. – Regular expression

e.g: driver.findElement(By.*xpath*("//button[contains(@class,'submit')]")).click(); // to scan with the partial value in xpath

* //tagname
* //header/div/button[1]/following-sibling::button[1]

e.g: System.***out***.println(driver.findElement(By.*xpath*("//header/div/button[1]/following-sibling::button[1]")).getText()); //moving parent to child

* //header/div/button[1]/parent::div

e.g: System.***out***.println(driver.findElement(By.*xpath*("//header/div/button[1]/parent::div/button[2]")).getText()); // moving child to parent

To find locaters based on text

e.g: driver.findElement(By.*xpath*("//\*[text()='Female']")).click();

//Here the \* will scan the all tag in that page

To find scan the all tags

driver.findElement(By.*xpath*("//\*[text()='Log Out']")).click(); // we can fine selectors using text in page useing this xpath //tagname or \*(it's scan all tag with the name)[text()='text in that page']

Parent to child  
   
\* driver.findElements(By.*xpath*("//div[@class='product-action']/button")).get(i).click(); // Also this is one fine way to parent to child

\*driver.findElement(By.*xpath*("//div[@id='glsctl00\_mainContent\_ddl\_destinationStation1\_CTNR'] [//a[@value='PNQ']")).click](mailto://a[@value='PNQ']")).click)();