Last updated: 14 May 2021

Selenium Java Training - Session 16 - XPath Expressions - Cheatsheet (Part 2)

XPath Expressions - Part 2

- Finding 'input' tags having name attribute as 'gender' //input[@name='gender']
- Finding the first 'input' tags having name attribute as 'gender' //input[@name='gender'][1]
- Finding the second 'input' tags having name attribute as 'gender' //input[@name='gender']
 [2]
- Finding any tags having name attribute as 'gender' //*[@name='gender']
- Finding 'input' tags having any attribute value as 'gender' //input[@*='gender']
- Finding any tags having any attribute value as 'gender' //*[@*='gender']
- Finding 'input' tags having name attribute value as anything //input[@name]
- Finding any tags having any attribute value as anything //*[@*]havi
- Finding any elements having id attribute value as 'radio1' and name attribute value as 'gender' //*[@id='radio1'][@name='gender']
- Finding the first 'input' tags having name attribute as 'gender' and is the first element -//input[@name='gender'][1]
- Finding the second 'input' tags having name attribute as 'gender' and is the second element
 //input[@name='gender'][2]
- Finding any elements having id attribute value as 'radio1' or name attribute value as 'gender'
 //*[@id='radio1' or @name='gender']
- XPath Expressions Part 2 Demonstrate at http://omayo.blogspot.in/
 - Find all the hyper links in the page //a
 - Find all the hyper links having URL 'http://www.Selenium143.blogspot.com'
 -//a[@href='http://www.Selenium143.blogspot.com']
 - Find the first hyper link having URL 'http://www.Selenium143.blogspot.com'
 (//a[@href='http://www.Selenium143.blogspot.com'])[1]
 - Find the third hyper link having URL 'http://www.Selenium143.blogspot.com'
 (//a[@href='http://www.Selenium143.blogspot.com'])[3]
 - Difference between (//a[@href='http://www.Selenium143.blogspot.com'])[3] and //a[@href='http://www.Selenium143.blogspot.com'][3]
 - Second XPath searches for the third element at tag level
 - First XPath searches for the third element at page level
 - Find first child of 'html' tag //html/*[1]
 - Find second child of 'html' tag //html/*[2]
 - Find first child of 'body' tag //body/*[1]
 - Find second child of 'body' tag //body/*[2]

XPath Functions

Find the p tags having the exact text 'PracticeAutomat - //p[text()='PracticeAutomationHere']

Use . instead of text() - Find the p tag having the exact text
 'PracticeAutomationHere' - //p[.='PracticeAutomationHere']

- contains() Demonstrate at http://omayo.blogspot.in/
 - Purpose:
 - It is used when the value of any attribute changes dynamically.
 - Has the ability to find the elements with partial text
 - If part of the attribute value is changing dynamically i.e.
 id='123main123' to id='456main456', we can use
 //tagName[contains(@id,'main')] to locate such dynamically changing attribute values.
 - Find the input tag having the text 'ra' inside its value attribute text
 -//input[contains(@value,'ra')]
 - Find the p tag containing the text 'Automation'-//p[contains(text(),'Automation')]
 - Find the p tag containing the text 'Automation' using.- //p[contains(.,'Automation')]
- starts-with()
 - Purpose:
 - It is used when the value of any attribute changes dynamically.
 - Has the ability to find the elements with partial text i.e. initial partial text
 - If part of the attribute value is changing dynamically i.e. id='main123' to id='main456', we can use //tagName[starts-with(@id,'main')] to locate such dynamically changing attribute values.
 - Find the input tag having the value attribute text starting with letter 'o'
 -//input[starts-with(@value,'o')]
 - Find the p tag starting with text 'Practice' //*[starts-with(text(),'Practice')]
 - Find the p tag starting with text 'Practice' using . //*[starts-with(.,'Practice')]
- XPath functions: Part2 (Demonstrate

at http://compendiumdev.co.uk/selenium/basic_web_page.html)

- Find the first child of 'body' tag //body/*[1]
- last() Find the last child of 'body' tag //body/*[last()]
- Find the first 'p' tag //p[1]
- last() Find the last 'p' tag //p[last()]
- Find the last but one 'p' tag //p[last()-1]
- Locate the last but 2 input tag (//input)[last()-2] (Demonstrate at http://omayo.blogspot.in/)
- Find second 'p' tag having class 'sub' //p[2][@class='sub']
- Find the last 'p' tag having class 'sub' //p[last()][@class='sub']
- Find the last but one 'p' tag having class 'main' //p[last()-1][@class='main']
- XPath functions: Part3 (Demonstrate
 - at http://compendiumdev.co.uk/selenium/basic_web_page.html)
 - position() Find the first 'p' tag //p[position()=1]

XPath Axes

- XPath AXES: (Demonstrate at http://omayo.blogspot.in/)
 - Purpose:
 - If you want to locate an element which doesn't have id/name/class etc., with the help of XPath Axes we can locate such elements not having id/name/class with the help of id/name/class attributes of ancestor/descendant tags.
 - following
 - Purpose: Selects everything in the document after the closing tag of the current node
 - Find all the 'body' tags after the 'head' tag //head/following::body
 - Find all the 'div' tags after //body/div[1]/div //body/div[1]/div/following::div
 - Find the first 'div' after //body/div[1]/div //body/div[1]/div/following::div[1]
 - Find all the 'input' tags after //body/div[1] //body/div[1]/following::input
 - preceding
 - Purpose: Selects all nodes that appear before the current node in the document, except ancestors nodes
 - Find all the 'head' tags before the 'body' tag //body/preceding::head
 - Find all the 'div' tags before //body/div[4] //body/div[4]/preceding::div
 - following-sibling
 - Purpose: Selects all siblings after the current node
 - Find all the 'div' tag siblings after //body/div[1] //body/div[1]/followingsibling::div
 - Find all the 'p' tag siblings after //body/p[1] //body/p[1]/following-sibling::p (Demonstrate
 at http://compendiumdev.co.uk/selenium/basic_web_page.html)
 - preceding-sibling
 - Purpose: Selects all siblings before the current node
 - Find all the 'div' tag siblings before //body/div[4] //body/div[4]/precedingsibling::div
 - Find all the 'p' tag siblings before //body/p[2] //body/p[2]/preceding-sibling::p
 (Demonstrate at http://compendiumdev.co.uk/selenium/basic_web_page.html
)
 - parent
 - Purpose: Selects the parent of the current node
 - Find the parent of 'head' tag //head/parent::html
 - Find the parent of 'body' tag //body/parent::html
 - Find the parent of 'title' tag //title/parent::head
 - Find the parent of first 'div' tag inside 'body' tag i.e. //div[1]
 -//div[1]/parent::body
 - child

- Purpose: Selects all children of the current node
- Find one of the child tag say 'title' of 'head' tag //head/child::title
- Find one of the child tag say first 'div' tag of 'body' tag //body/child::div[1]

ancestor

- Purpose: Selects all ancestors (parent, grandparent, etc.) of the current node
- Find the ancestor 'html' tag for 'title' tag //title/ancestor::html
- Find the ancestor 'html' tag for 'head' tag //head/ancestor::html
- Find the ancestor 'html' tag for 'body' tag //body/ancestor::html

descendant

- Purpose: Selects all descendants (children, grandchildren, etc.) of the current node
- Find the descendant 'title' tag for 'html' tag //html/descendant::title
- Find the descendant 'head' tag for 'html' tag //html/descendant::head
- Find the descendant 'body' tag for 'html' tag //html/descendant::body

Miscellenious

- //ParentXpath//ChildXPath//GrandChildXPath
 - Child XPath will be searched in the parent XPath located section or area

By, Arun Motoori

Terms of Service

Privacy Policy

Report Spam