August 23, 2019

XPath Selectors

Session 2.3

Presented by

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Agenda

- Xpath Selectors

Important Locators

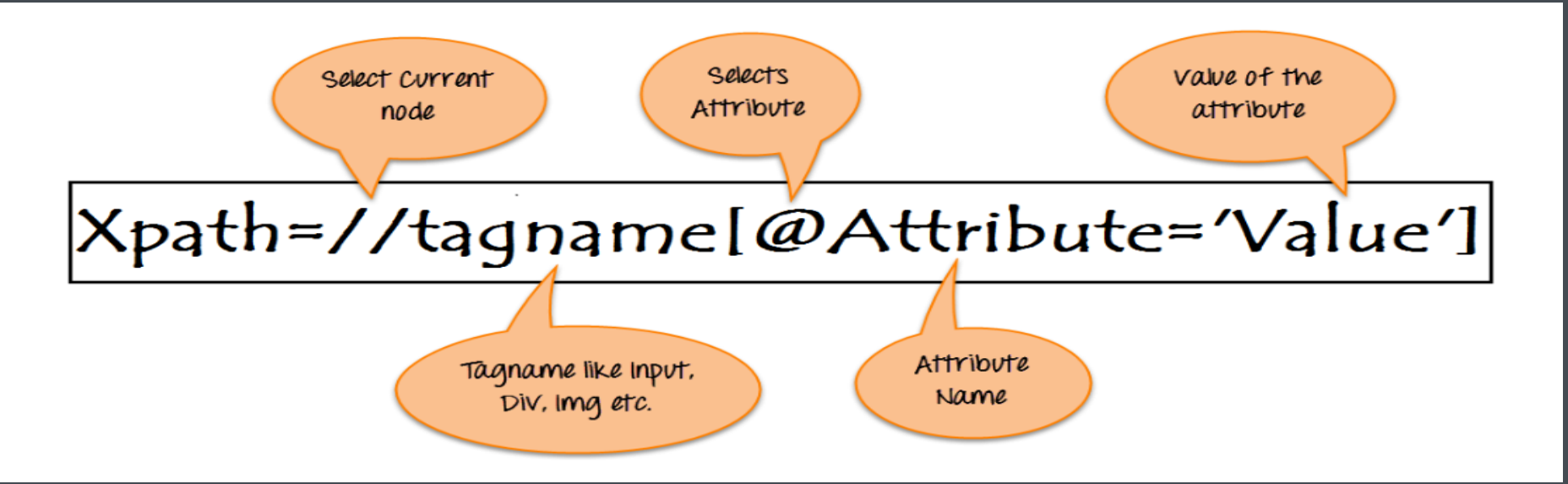
You can find elements using their tags or attributes and values using the following selenium locators:

- ID
- Class
- TagName
- Name
- CSS
- XPath

What is Xpath?

When an HTML document is loaded into a web browser, it becomes a document object. You can query for elements within the document object directly from within your browser's console window by performing the following document object methods.

- One of the locators used to navigate through elements and attributes.
- A syntax or language for finding any element from the HTML DOM using an XML path expression.



Absolute Versus Relative

XPath required for finding the dynamic element and traverse between various elements of the web page

```
Xpath=//tagname[@attribute='value']
```

//	**Selects current node**
Tagname	Tagname of the particular node
@	Select an attribute
Attribute	Attribute name of the node
Value	Value of the attribute

➢ Absolute XPath

```
html/body/div[1]/section/div[1]/div/div/div/div[1]/div/div/div/div/div[3]/div[1]/div/h4[1]/b
```

➢ Relative XPath

```
Relative xpath: //*[@class='featured-box']//*[text()='Testing']
```

Hands On

- Lets start identifying elements using XPath on this Demo site

http://demo.guru99.com/v1/

Using Attributes

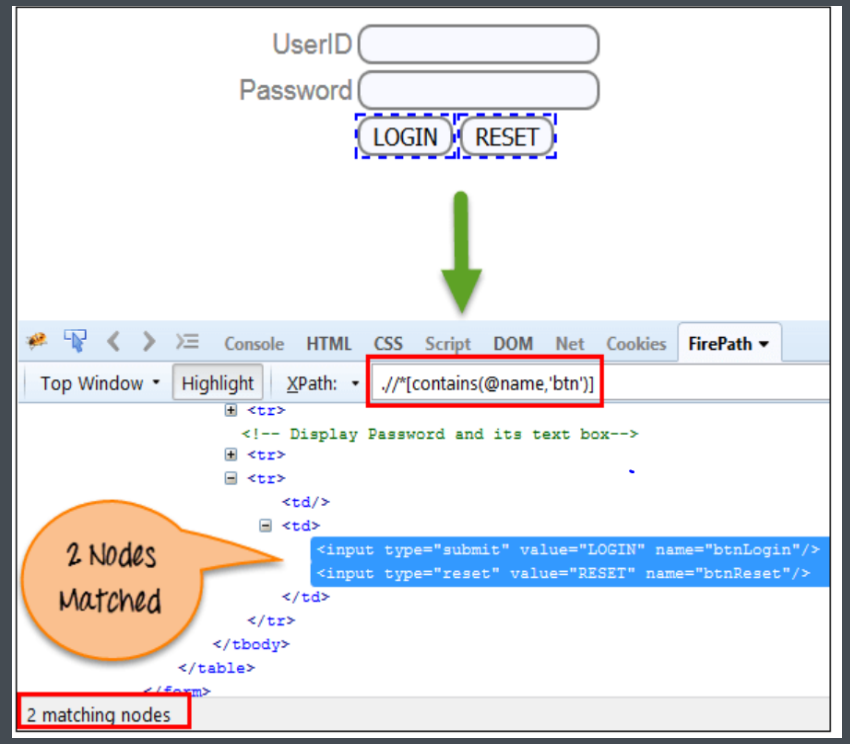
```
Xpath=//input[@type='text']
Xpath=  //label[@id='message23']
Xpath=  //input[@value='RESET']
Xpath=//*[@class='barone']
Xpath=//a[@href='http://demo.guru99.com/']
Xpath= //img[@src='//cdn.guru99.com/images/home/java.png']
```

```
Xpath=//input[@name='uid']
```

Xpath Contains()

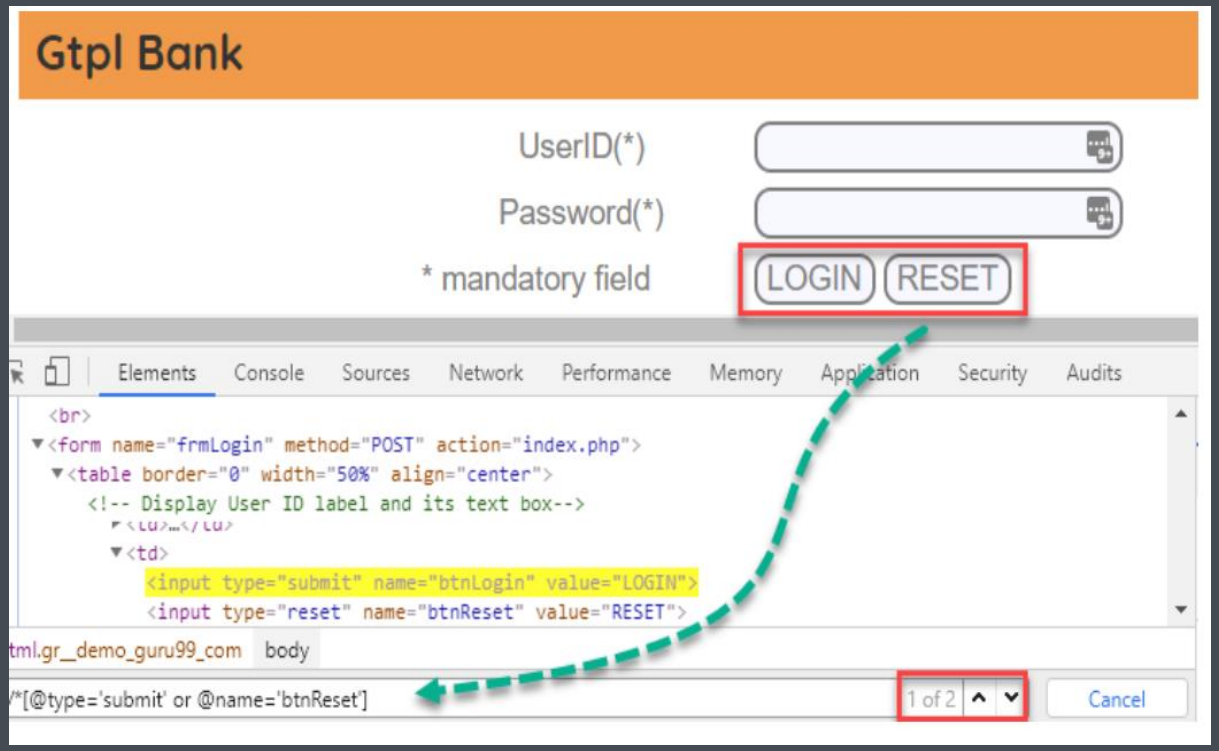
```
Xpath=//*[contains(@id,'message')]
```

```
Xpath=//*[contains(@name,'btn')]
```

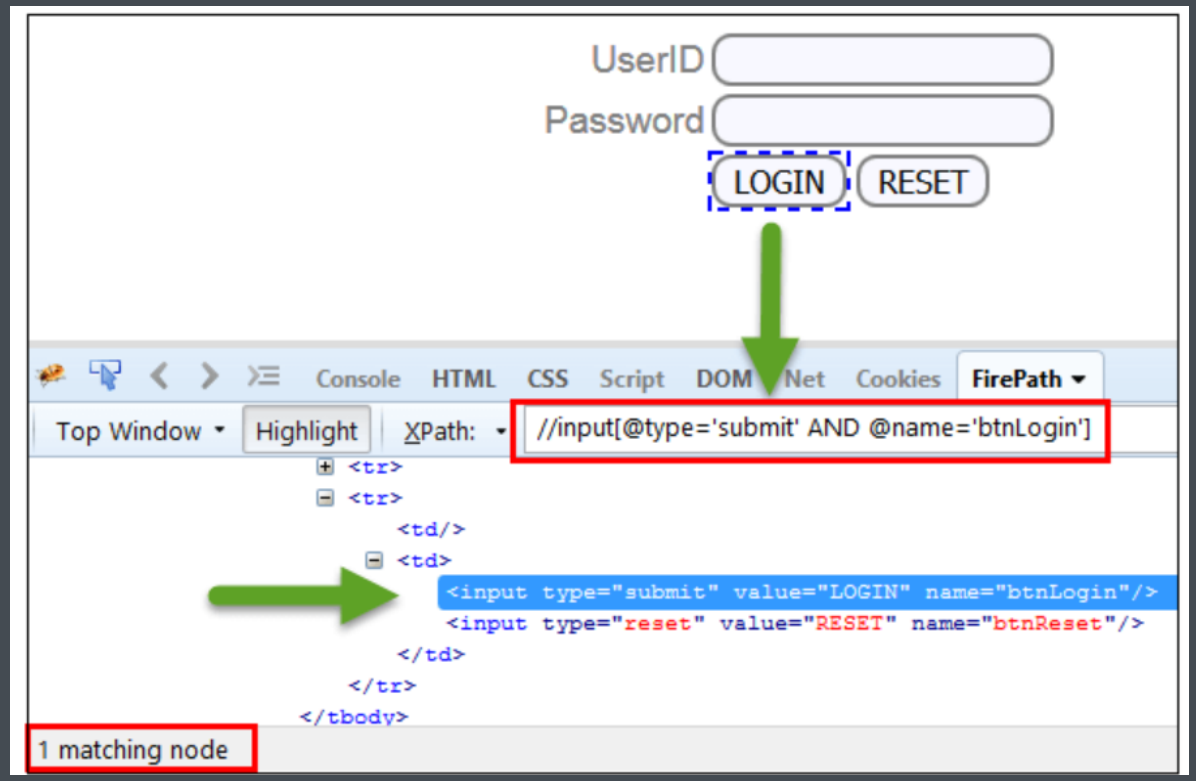


Using OR & AND

```
Xpath=//*[@type='submit' or @name='btnReset']
```




```
Xpath=//input[@type='submit' and @name='btnLogin']
```



Starts With()

```
Xpath=//label[starts-with(@id,'message')]
```

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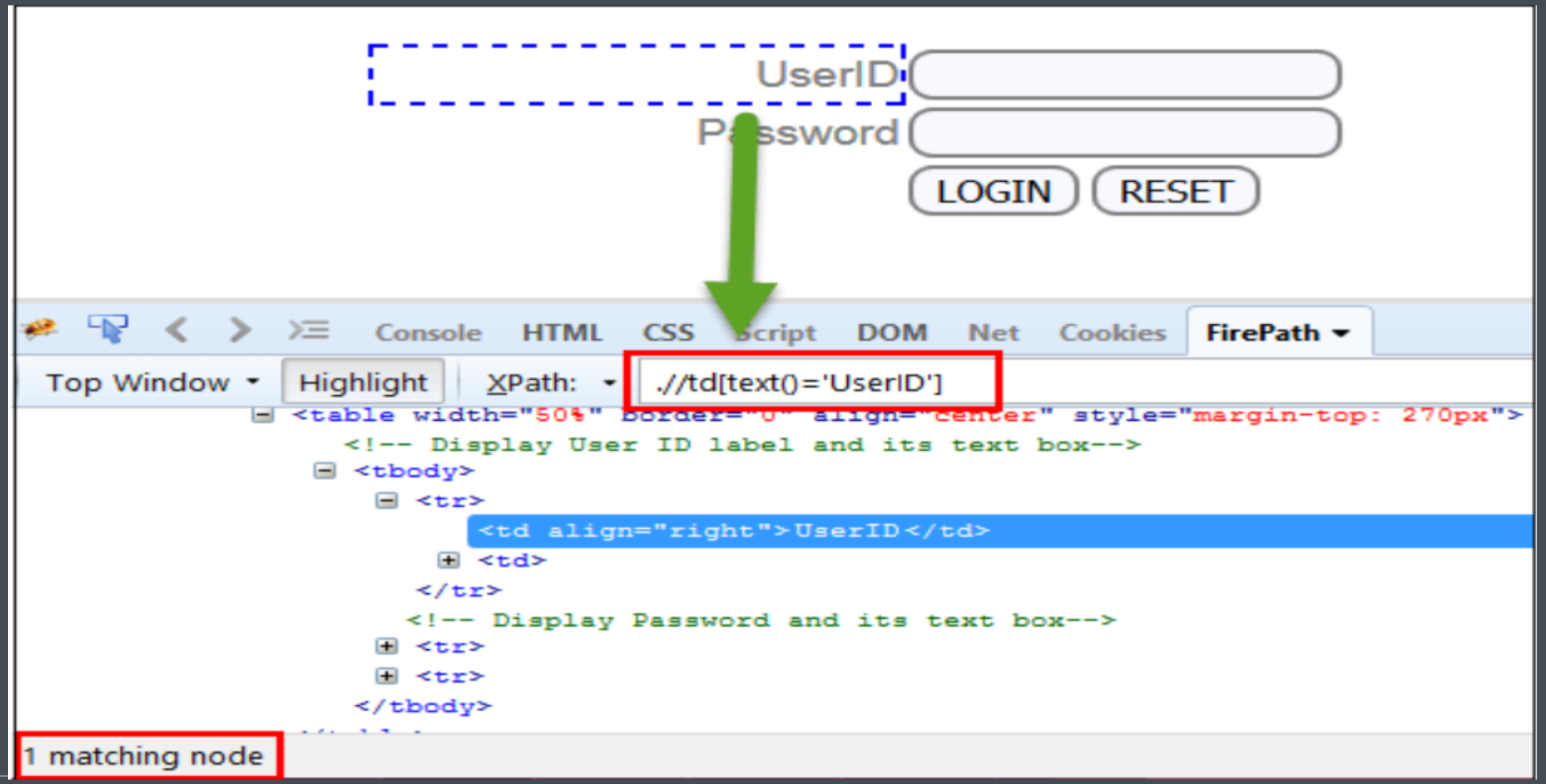
Text()

```
Xpath=//td[text()='UserID']
```



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Xpath Axes Methods

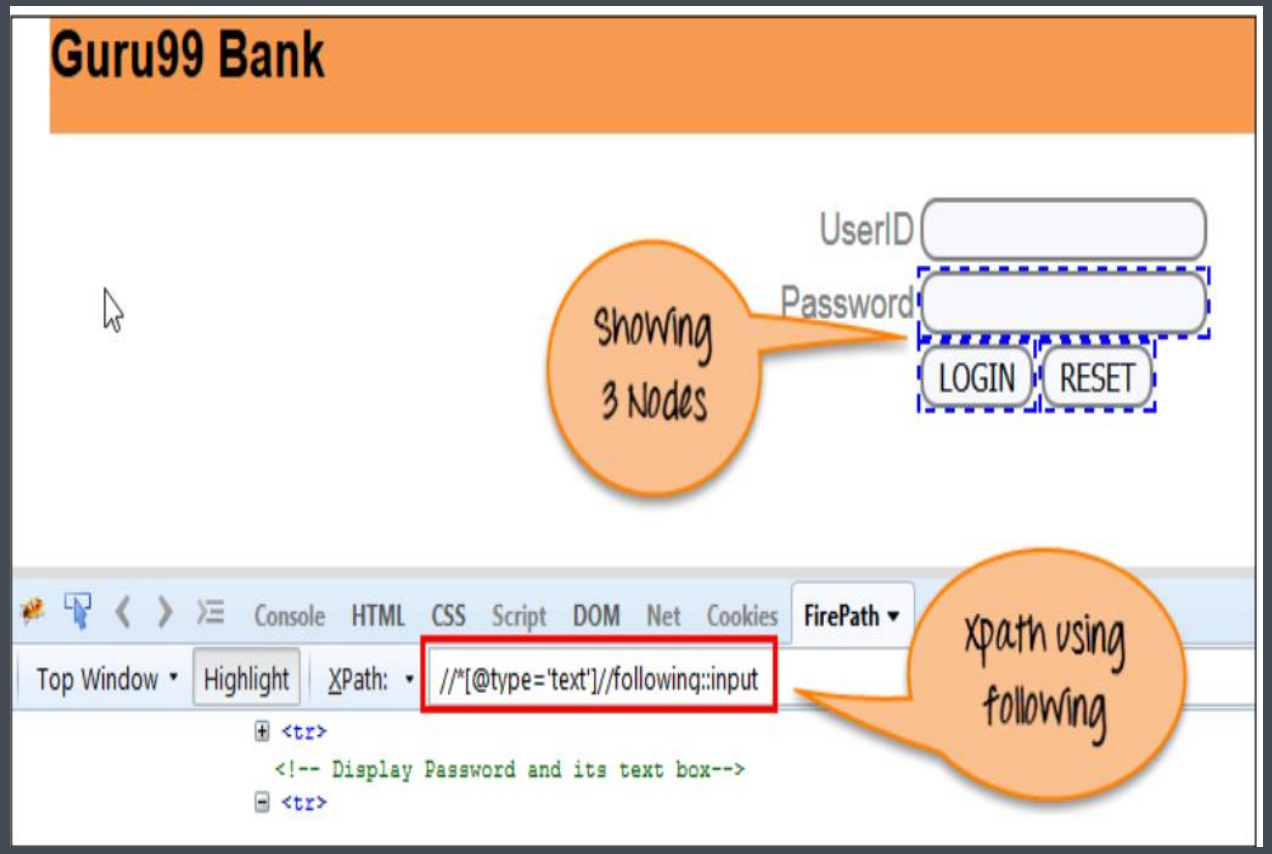
These are methods that are used to find the most complex or dynamic elements:

- Following
- Ancestor
- Child
- Preceding
- Following-Sibling
- Parent
- Self
- Descendent

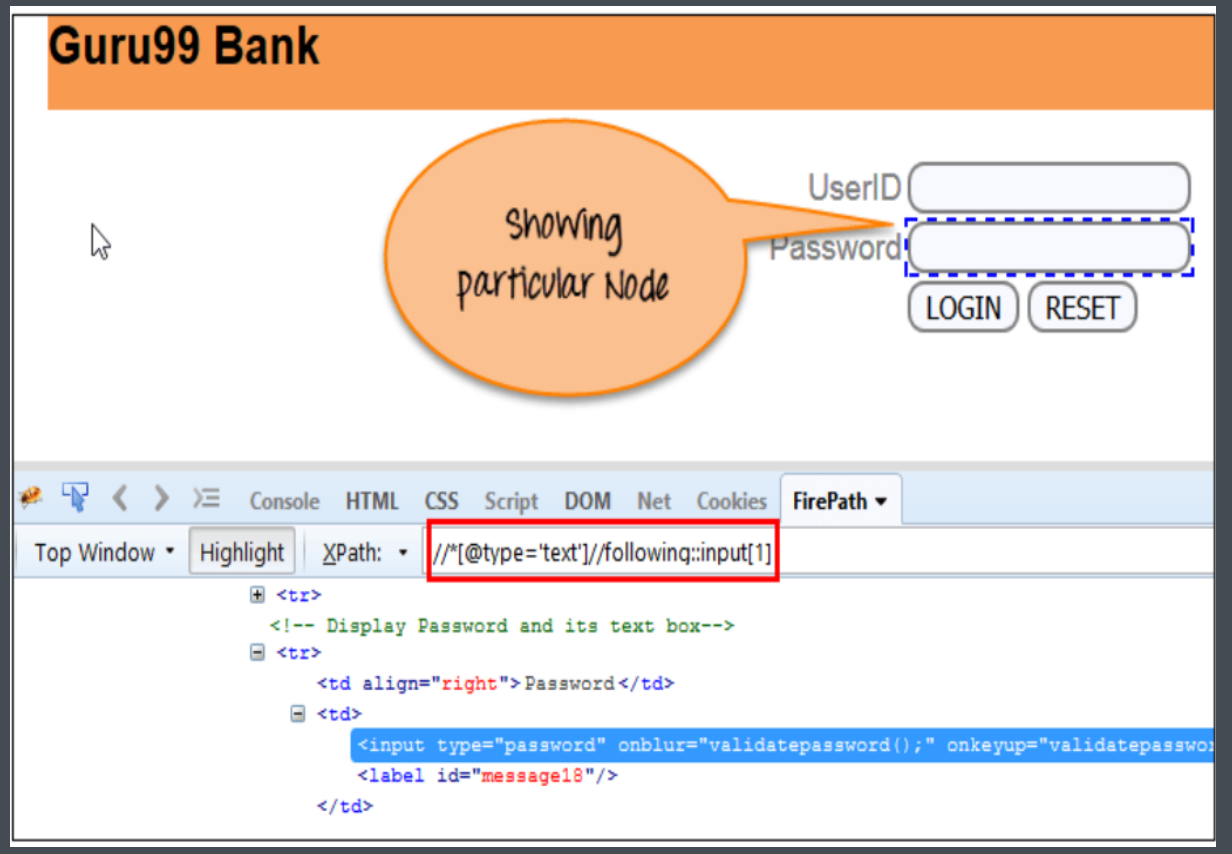
Read More Here

Following

```
Xpath=//*[@type='text']//following::input
```

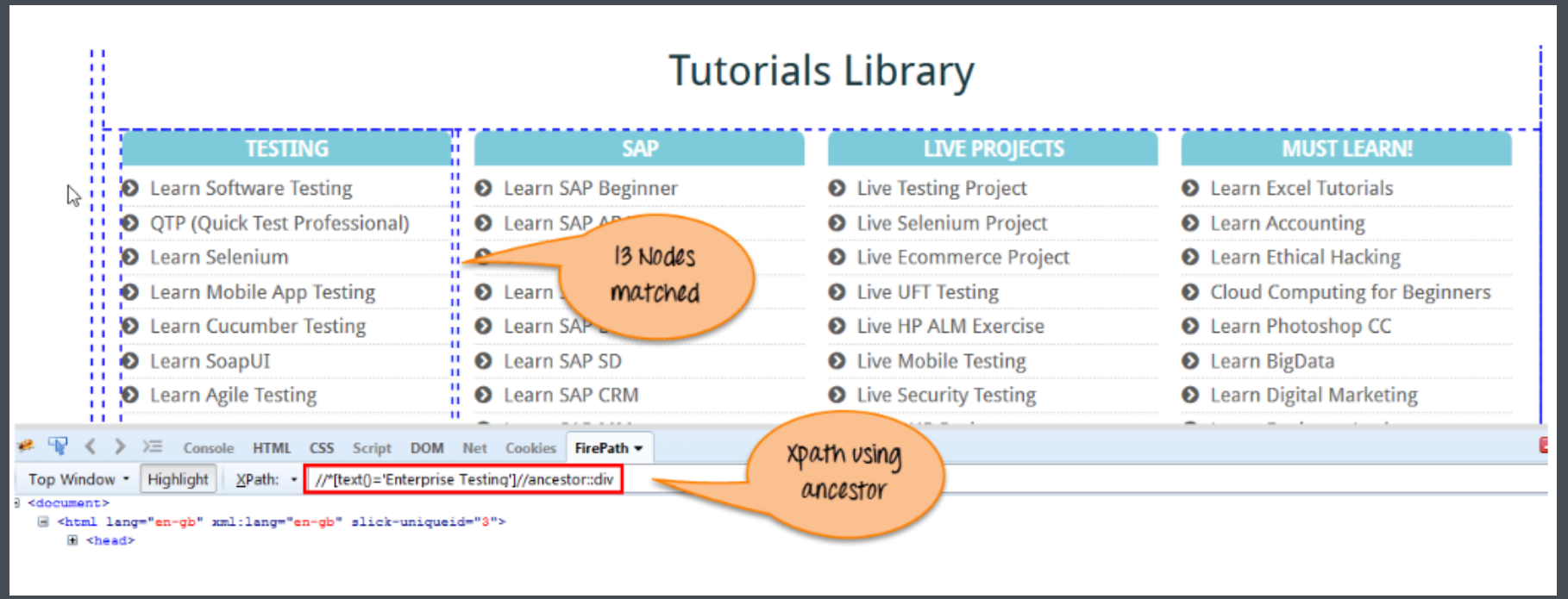



```
Xpath=//*[@type='text']//following::input[1]
```



Ancestors

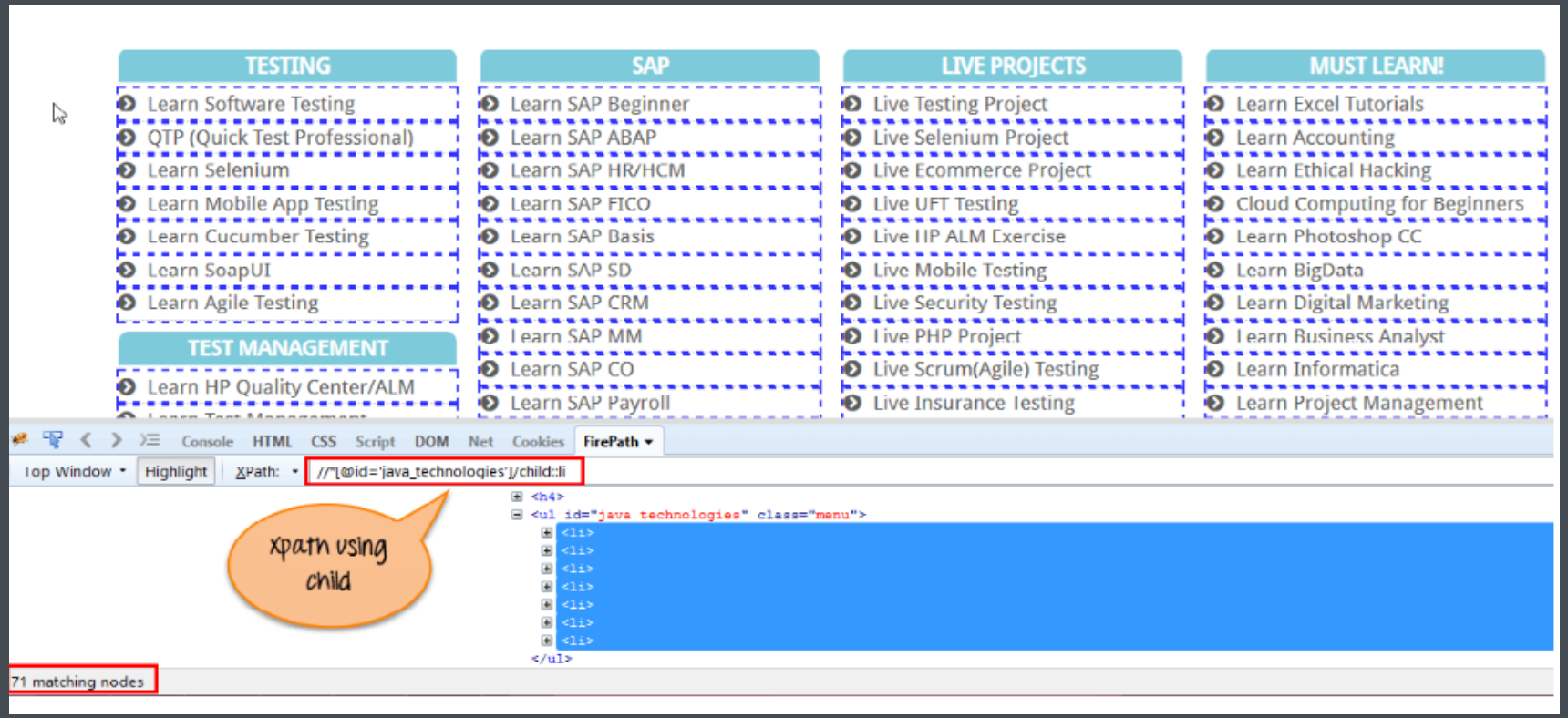
```
Xpath=//*[text()='Enterprise Testing']//ancestor::div
```




```
Xpath=//*[text()='Enterprise Testing']//ancestor::div[1]
```

Child

```
Xpath=//*[@id='java_technologies']/child::li
```




```
Xpath=//*[@id='java_technologies']/child::li[1]
```

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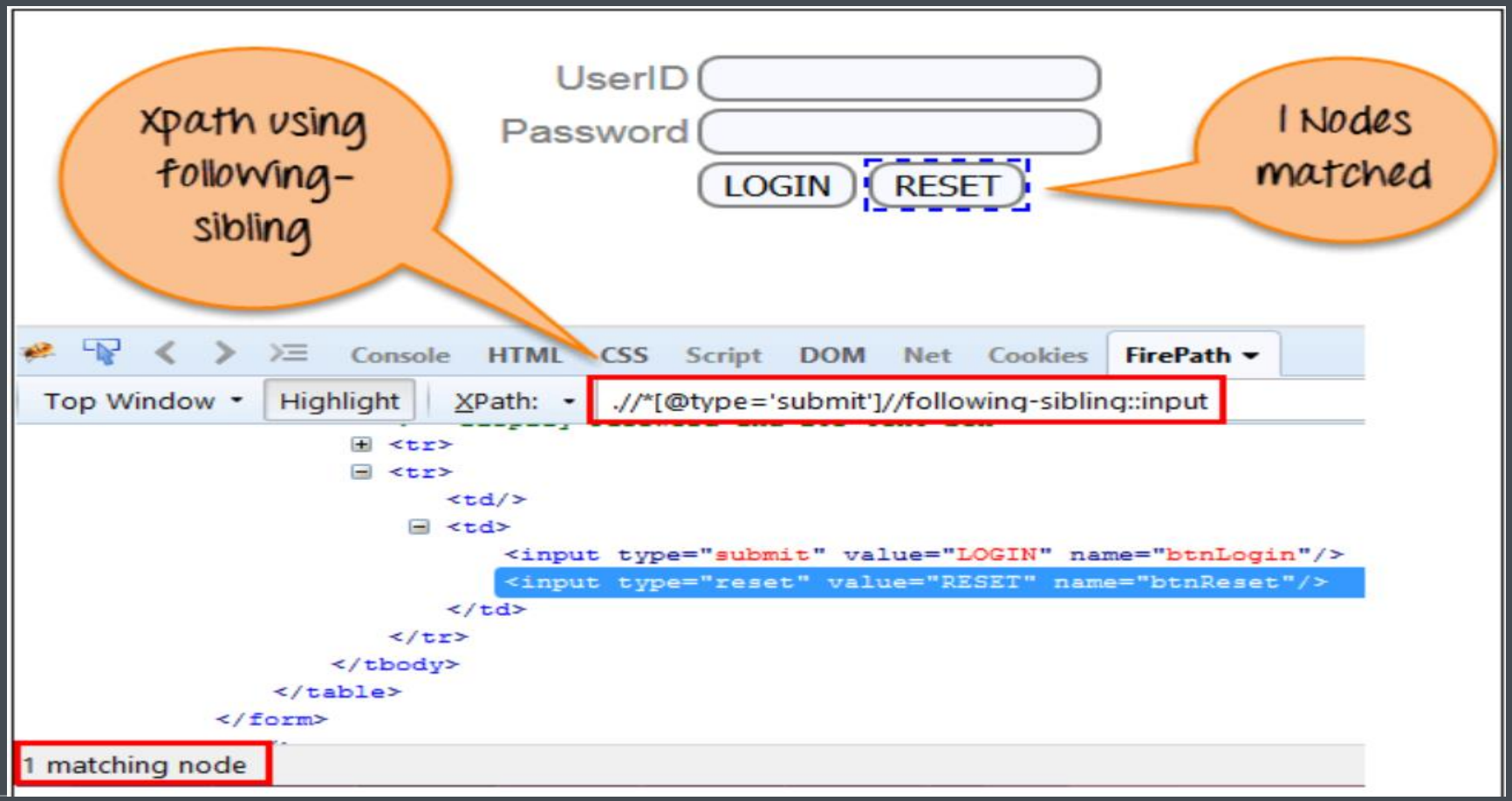
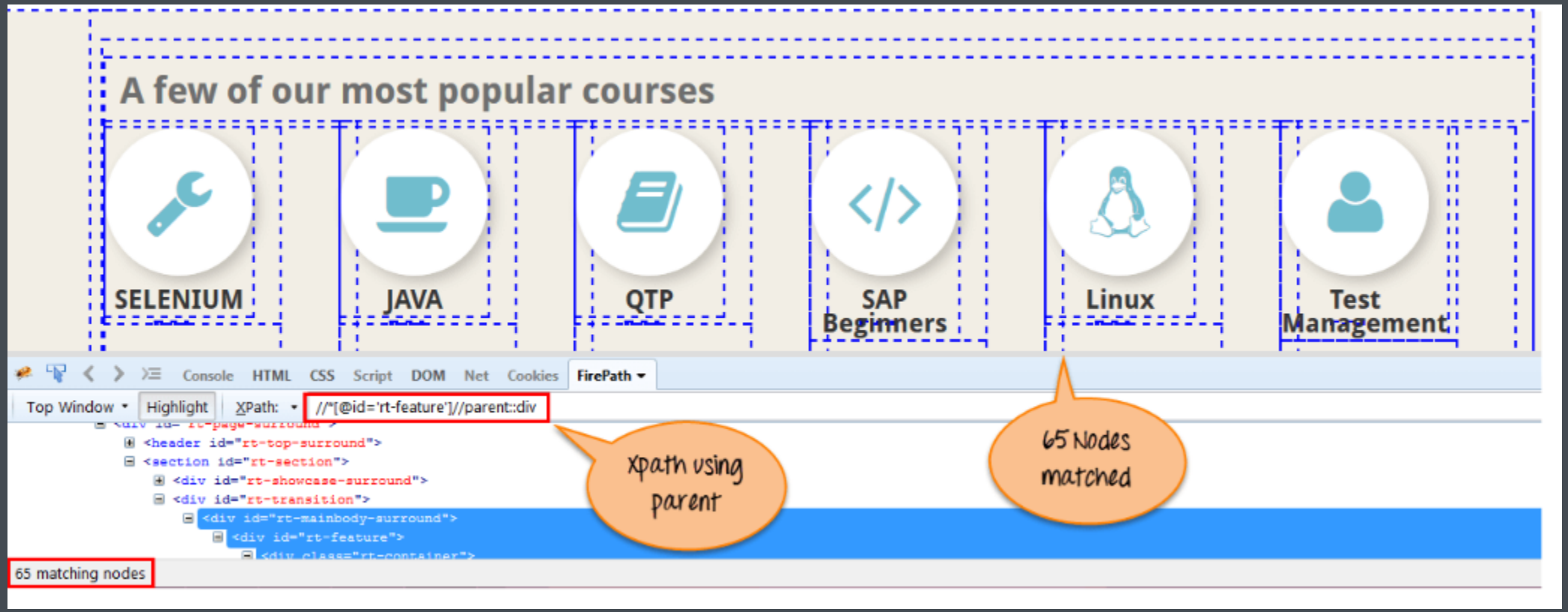
Following-Sibling

```
xpath=//*[@type='submit']//following-sibling::input
```



Parent

```
Xpath=//*[@id='rt-feature']//parent::div
```



Homework

- Site offers a way to test online booking for hotel, flight, tours, and travel
- Using the site below, create a test that will perform a search on booking a hotel and then validate that results are found.
- Use XPath

https://www.phptravels.net/

Next Session

Up Coming Topics:

- Checking for Element Properties
- Synchronizing Your Tests
- Linking automated scripts to MTM tests
- Storing project solution on the Cloud