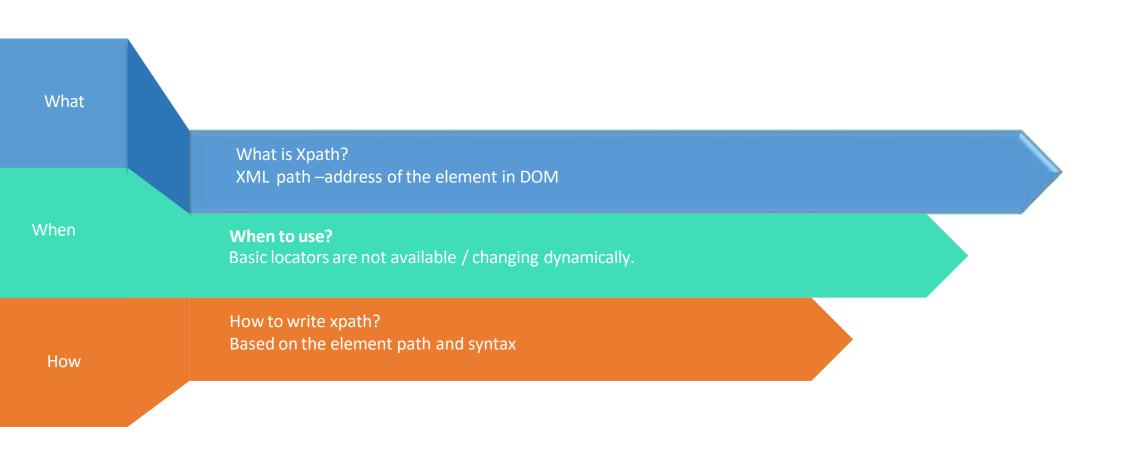
Playwright

XPATH
How? When?

The Golden Rule



Types of Xpath

Absolute Xpath



Relative Xpath







☐ You must follow the **exact route** and **fixed stops** of the railway line to reach your destination

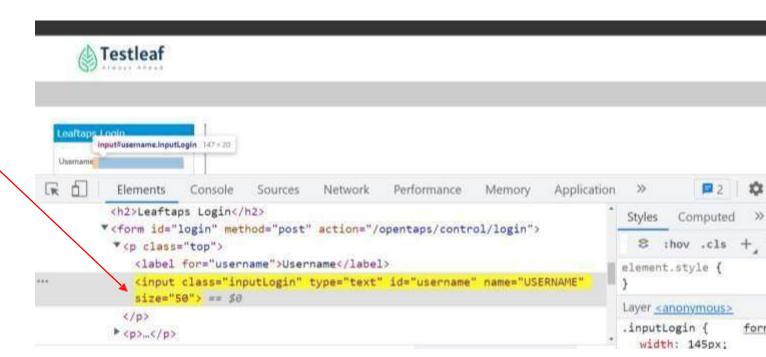
☐ You can take **shortcuts** or **adjust your route** based on current traffic or road conditions.

Absolute Xpath

- Long path, Starts from root tag(<html>) and ends at the target element tag.
- Specifies the full hierarchy to target an element.
- Prone to breaking when the page structure changes.
- Starts with "/" and traverse through each and every tag in hierarchy to reach the required
 WebElement

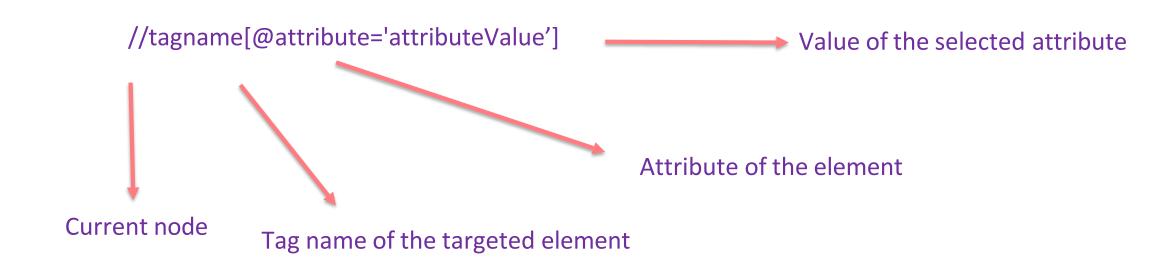
The syntax for the absolute xpath is /html/body/div[2]/div/div/form/p/input

-Rarely used because of unreliable



Relative XPath

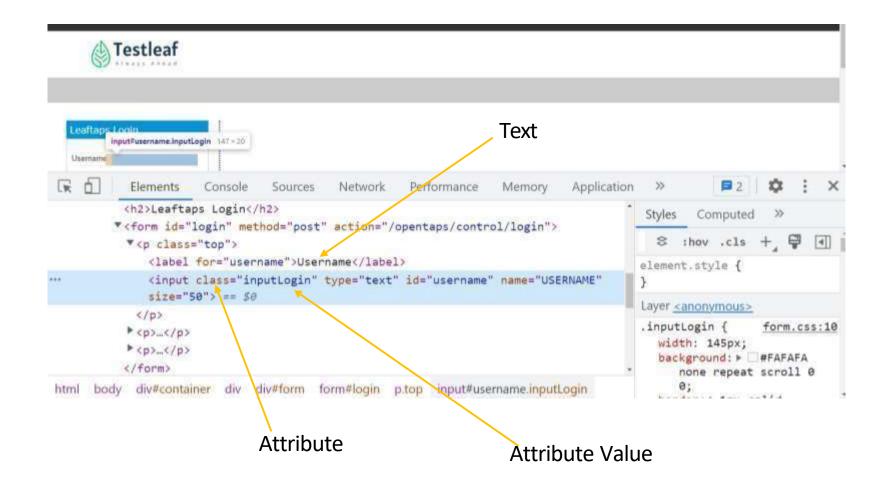
- Begins from the current element, not necessarily the root. Defines a
- shorter, context-based path to locate an element
- Offers more robust and flexible element targeting, suitable for dynamic web pages.
 Relative XPath starts with the "//" which locates the inner or middle part of the DOM.
- General syntax of the Relative XPath is:



Types of Relative Locators

Relative Locators

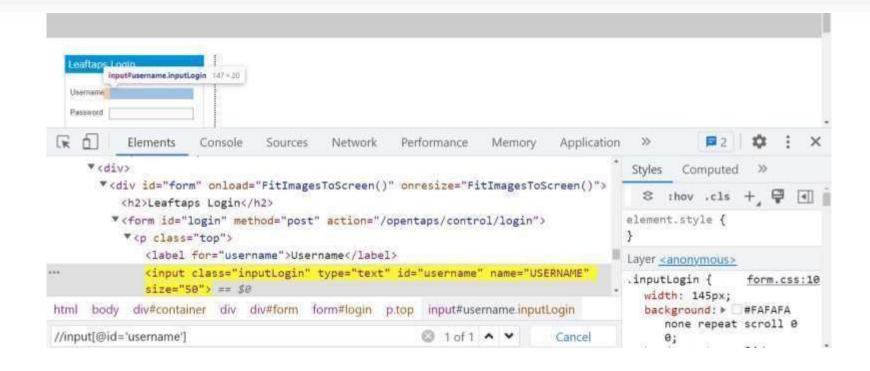
- Basic XPath
- Advanced XPath



Basic Xpath – Attribute Based

Attribute Based XPath:

->uses the attribute and attribute value of the WebElement in the DOM.



```
Syntax:
//tagName[@attribute='attributeValue']
Example
//input[@id='username']
```

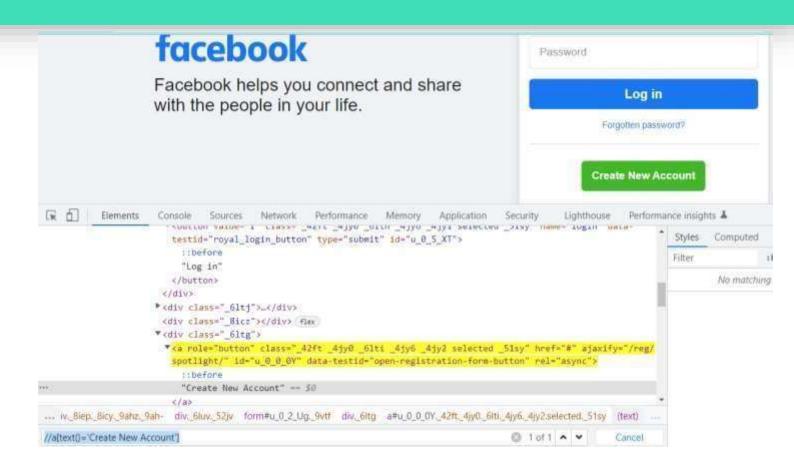
Contd...

Basic Xpath – Text Based

Text Based Xpath:

->based on the text displayed for the WebElement in dom.

```
Syntax:
//tagName[text()='text value in DOM']
Example:
//a[text()='Create New Account']
```



Contd...

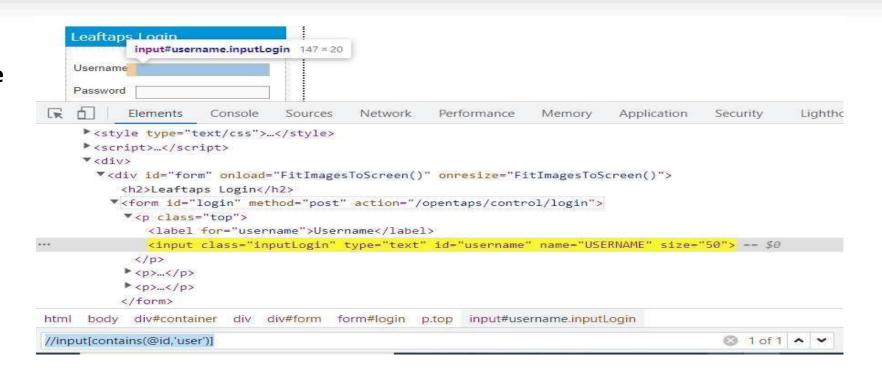
Basic Xpath – Partial Match

Partial attribute Based Xpath:

=>uses the partial attribute value of the WebElement

*Contains ->check for the given attribute

value with the value in DOM



```
Syntax:
```

//tagName[contains(@attribute, 'Partial value of the attribute')]

Example:

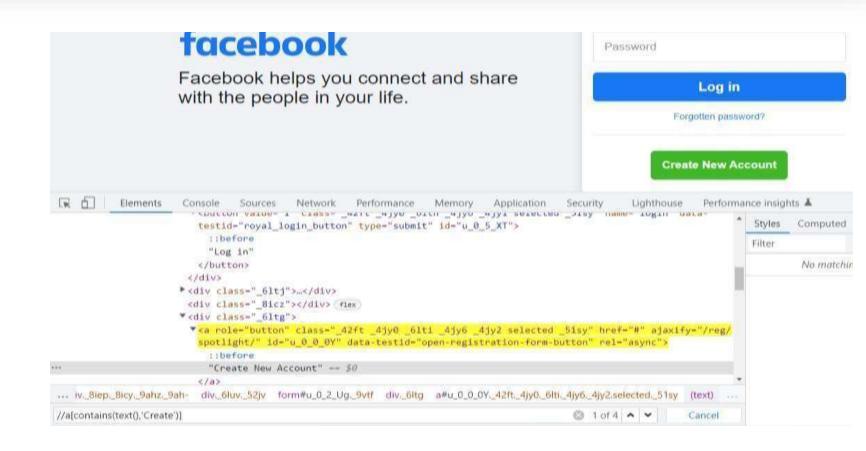
//input[contains(@id,'user')]

Contd..

Basic Xpath – Partial Match

Partial Text Based Xpath:

->uses the partial text value of the WebElement



Syntax:

//tagname[contains(text(),' Partial text in my DOM' ')]

Example:

//a[contains(text(),'Create')]

Contd...

Basic Xpath - Collection

Collection Based Xpath:

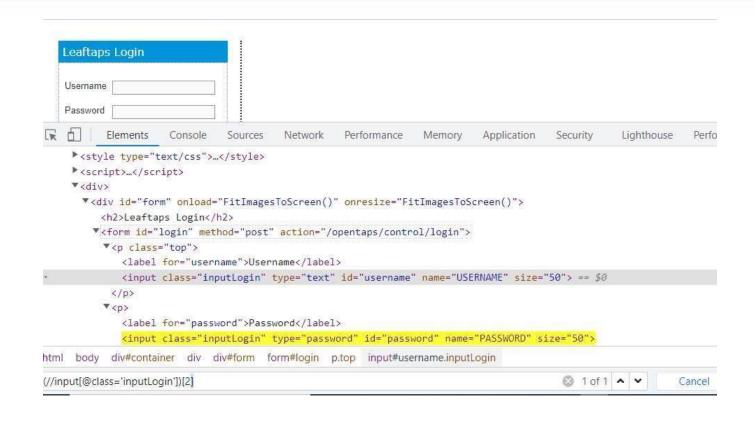
-> when there is multiple

matches of found for a xpath

->uses index to match the excact

element

->Index starts with 1



```
Syntax:

(//tagName[@attribute='attributeValue'])[index]

Example

(//input[@class='inputLogin'])[2]
```

Summary

- Basic Xpath-What , when, How?
- 2 types- Absolute and Relative xpath
- Most recommended Relative xpath

Let's learn few actions & add a new Test

Practice a simple program by creating a lead in the Leaftap application and understand few actions:

- Typing
- Clicking
- Navigating