# TECHNO STUDY 4

# **SELENIUM XPATH**

Most powerful selector



- XPath we can traverse both forward and backward whereas CSS selector only moves forward
- XPath can search by text, using contains functionality



### **GENERAL LOCATOR STRATEGY**

- 1. ID first
- 2. CSS selector for everything else
- 3. When nothing else works, use XPath





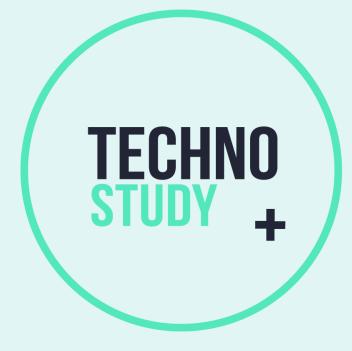
- XPath is defined as XML path.
- •XPath is used to find the location of any element on a webpage using HTML DOM structure.



## **TYPES OF X-PATH**

There are two types of XPath:

- 1) Absolute XPath
- 2) Relative XPath



#### **ABSOLUTE XPATH:**

/html/body/div[2]/div/section/
figure/figcaption/div[2]

#### **RELATIVE XPATH:**

```
//*[@id= 'contact_form']
```

```
<! DUCIYPE html>
<html lang="en">
<head>...</head>
▼ <body>
  <div class="wrapper row1">...</div>
  ▼ <div class="wrapper row2">
   ▼ <div id="container" class="clear">
       <!-- Slider -->
     ▼ <section id="slider" class="clear center">
       ▼<figure>
         ▼ <figcaption>
             <h2>Contact Us</h2>
           <div class="small">...</div>
           ▼<div id="contact_form"> == $0
                                       Username: "
              <input type="text" id="username">
               <br>
```

(br>

Password: "

<input type="password" id="password">

**TECHNO** 

#### BASIC FORMAT OF RELATIVE XPATH



Select Current node Selects Attribute

value of the attribute

Xpath=//tagname[@Attribute='Value']

Tagname like Input, Div, Img etc. Attribute Name

#### **BASIC XPATH**

```
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']
```



# CONTAINS():

```
Xpath=//*[contains(@type,'sub')] type inde sub kelimesi geçen
Xpath=//*[contains(@name,'btn')]
Xpath=//*[contains(@id,'message')]
Xpath=//*[contains(@href,'guru99.com')]
Xpath=//h2[contains(text(),'Popular right now')]
```



#### STARTS-WITH FUNCTION

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



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

The ends-with function is part of xpath 2.0 but browsers generally only support 1.0



#### USING OR & AND

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

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

Xpath =//span[@role='menuitem' or @class='text-gray-darker']
Or = || in java
And = && in java

Xpath =//a[@id='item_0_title_link' or @href='./inventory-item.html?id=0']
```



## TEXT()

Xpath= //\*[text()='Accepted usernames are:'] ekranda gözüken yani tag lerinin arasında olan yazı

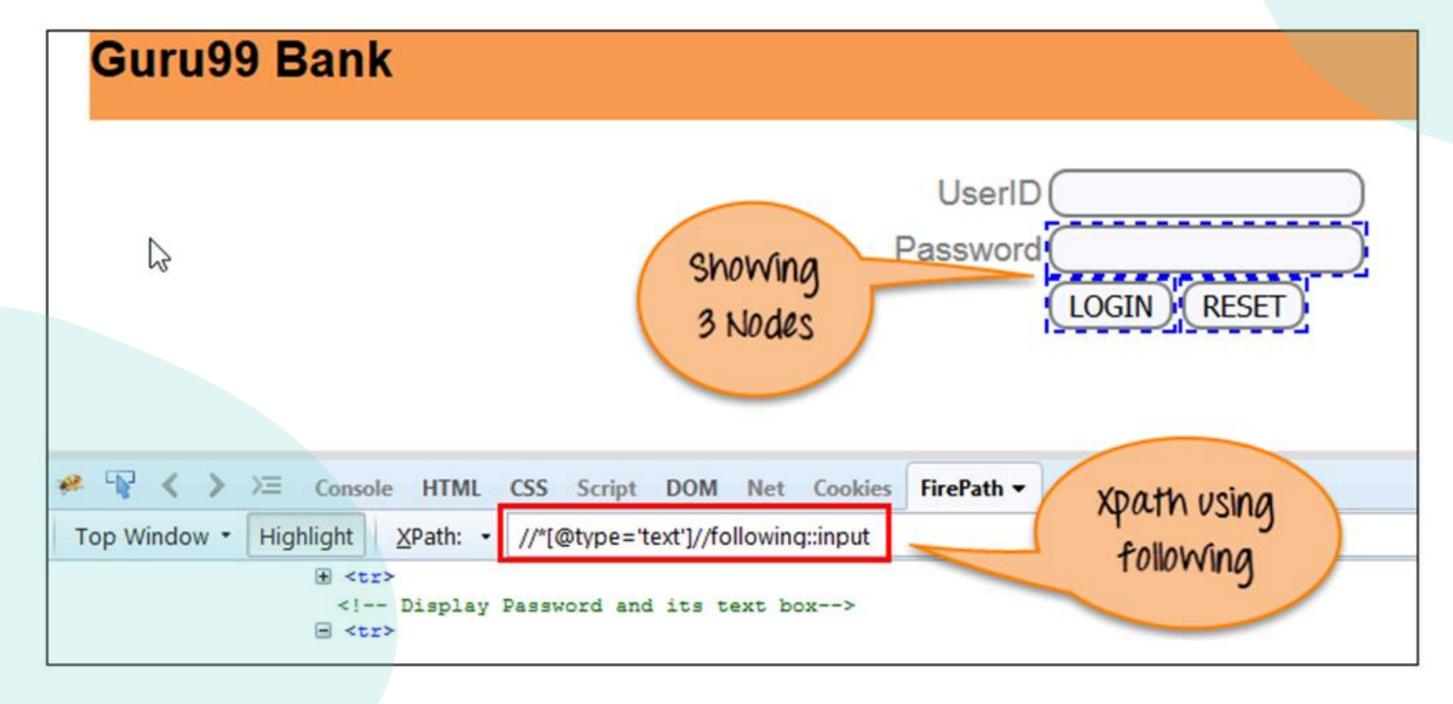


#### **FOLLOWING**

**following:** This function will return the following elements of the particular component.

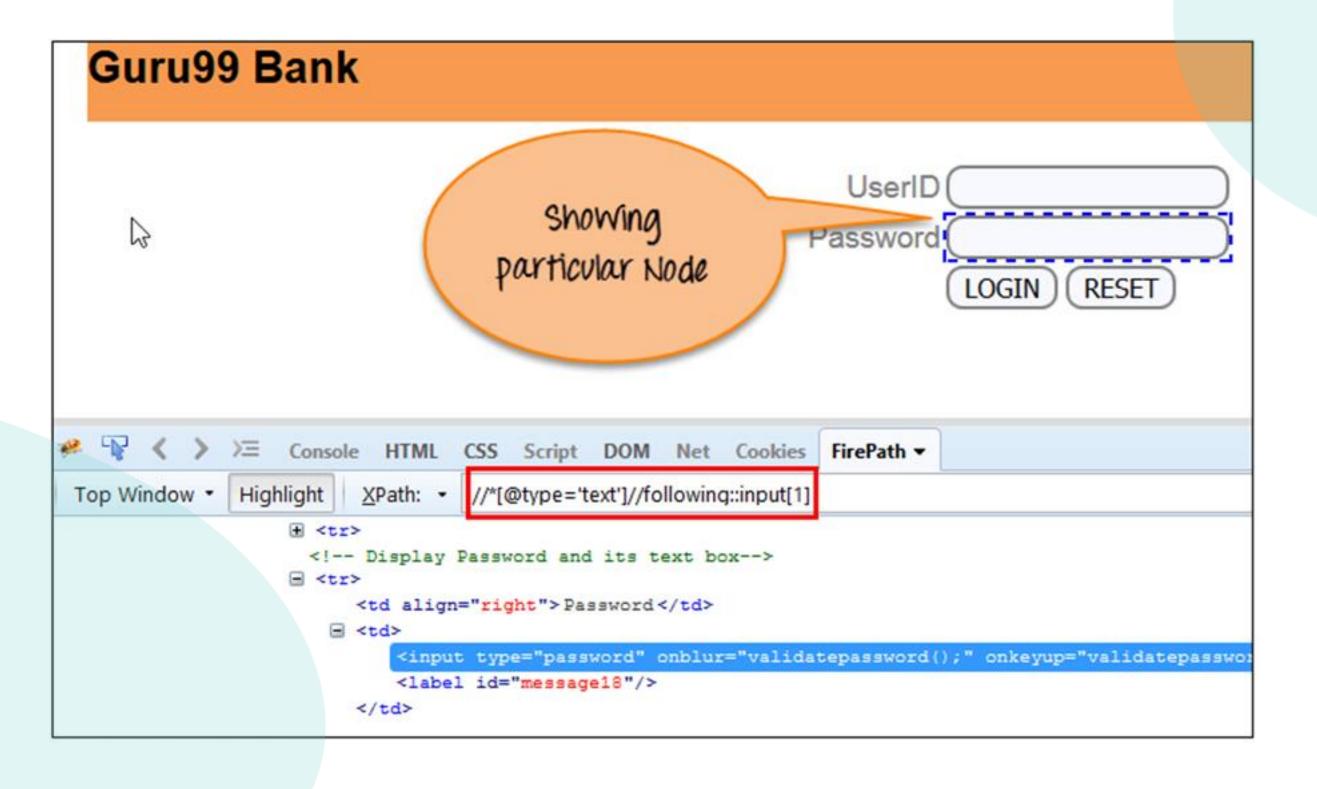
TECHNO STUDY +

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



## BY INDEX []

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



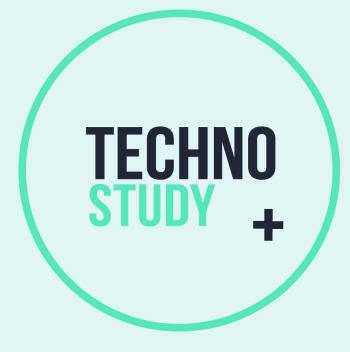


## **CHILD**

Xpath=//\*[@id='java\_technologies']//child::li

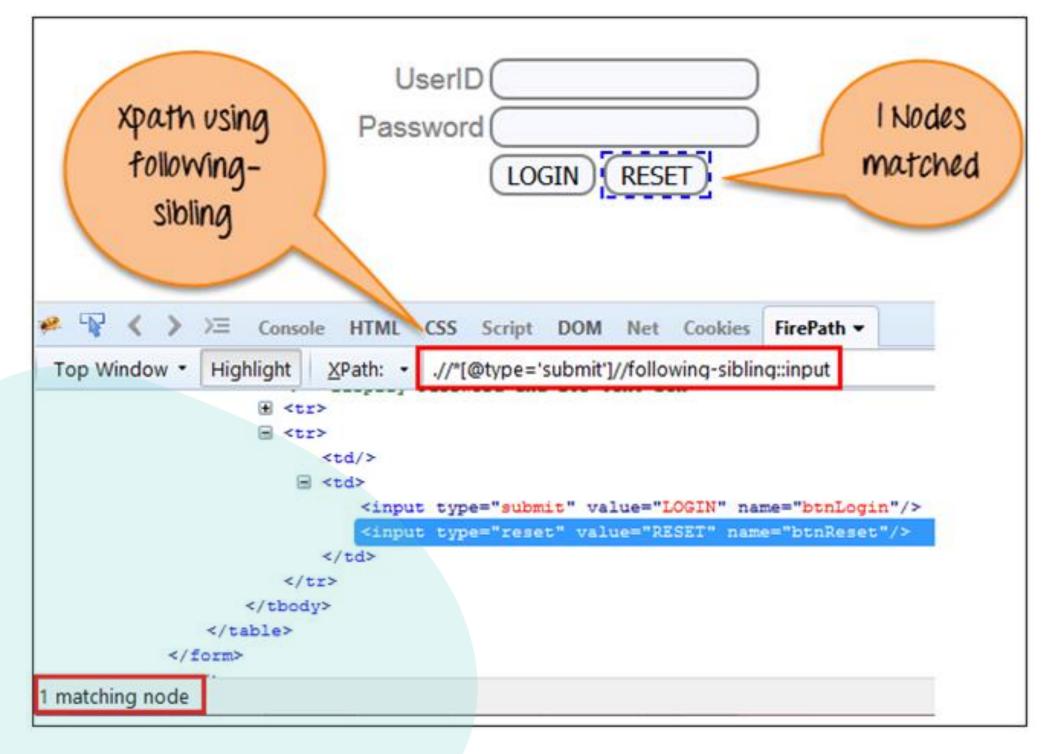
Xpath=//div[@class='cart\_list']//a

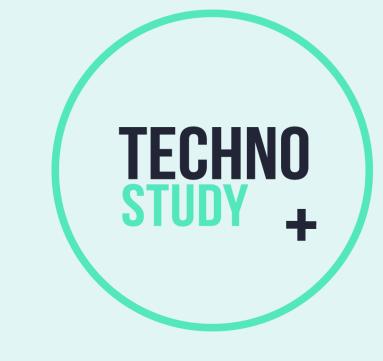
Selects all children elements of the current node



## FOLLOWING-SIBLING (SIBLINGS ON SAME LEVEL)

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





#### PRECEDING-SIBLING

## .. GOING UP ONE LEVEL

xpath=//\*[@type='submit']/../span

Xpath=//\*[text()='ADD TO CART']/parent::div

