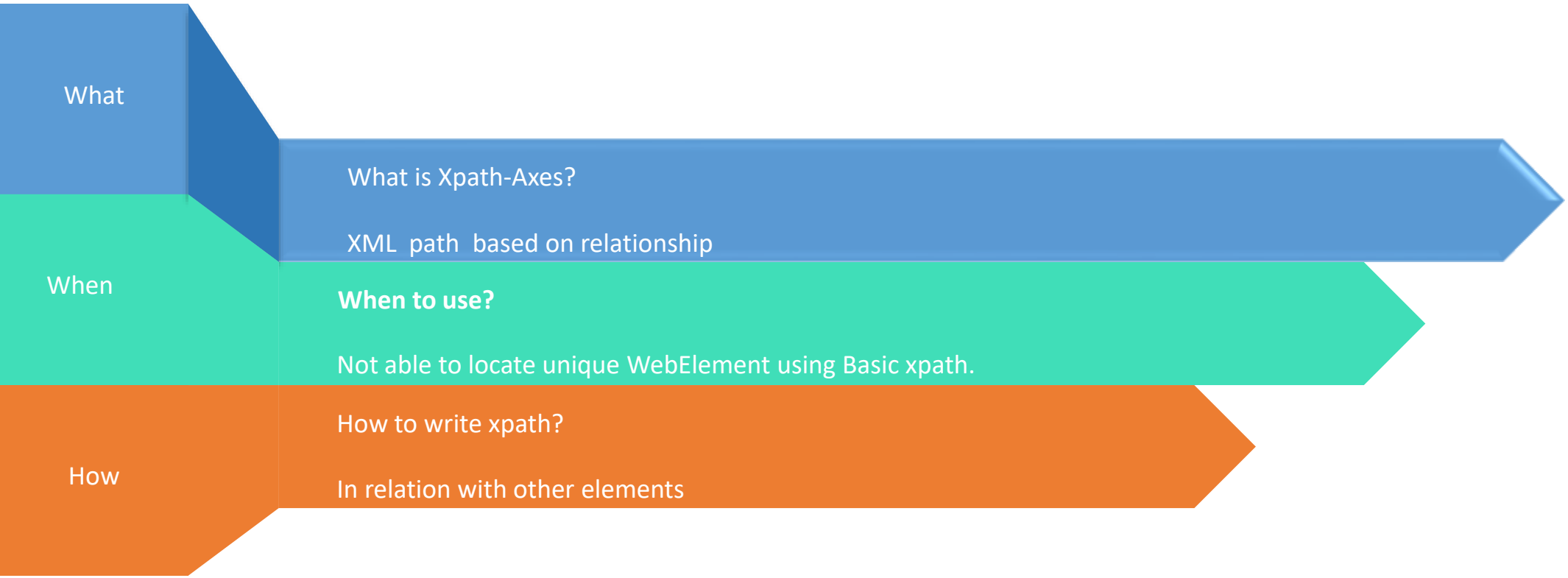
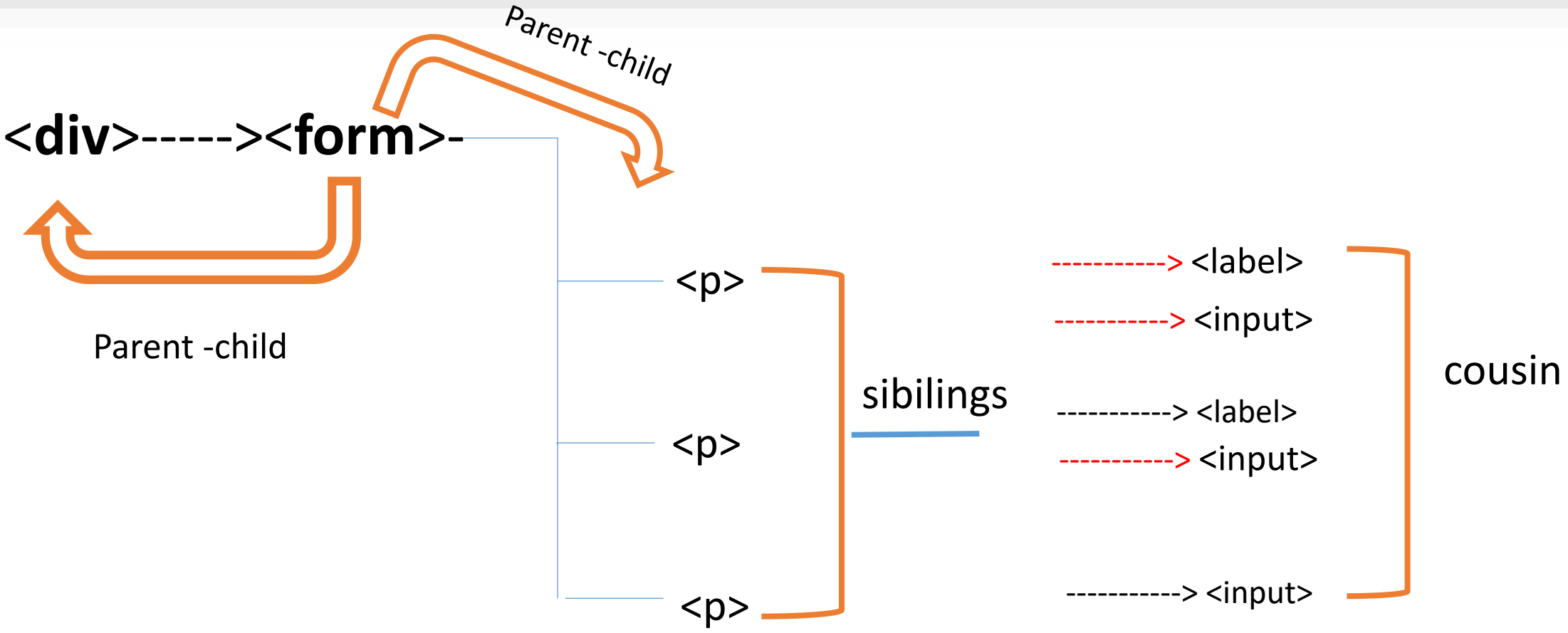
Playwright

XPATH-Axes
How? When?

The Golden Rule



Let’s Analyse the Relationship

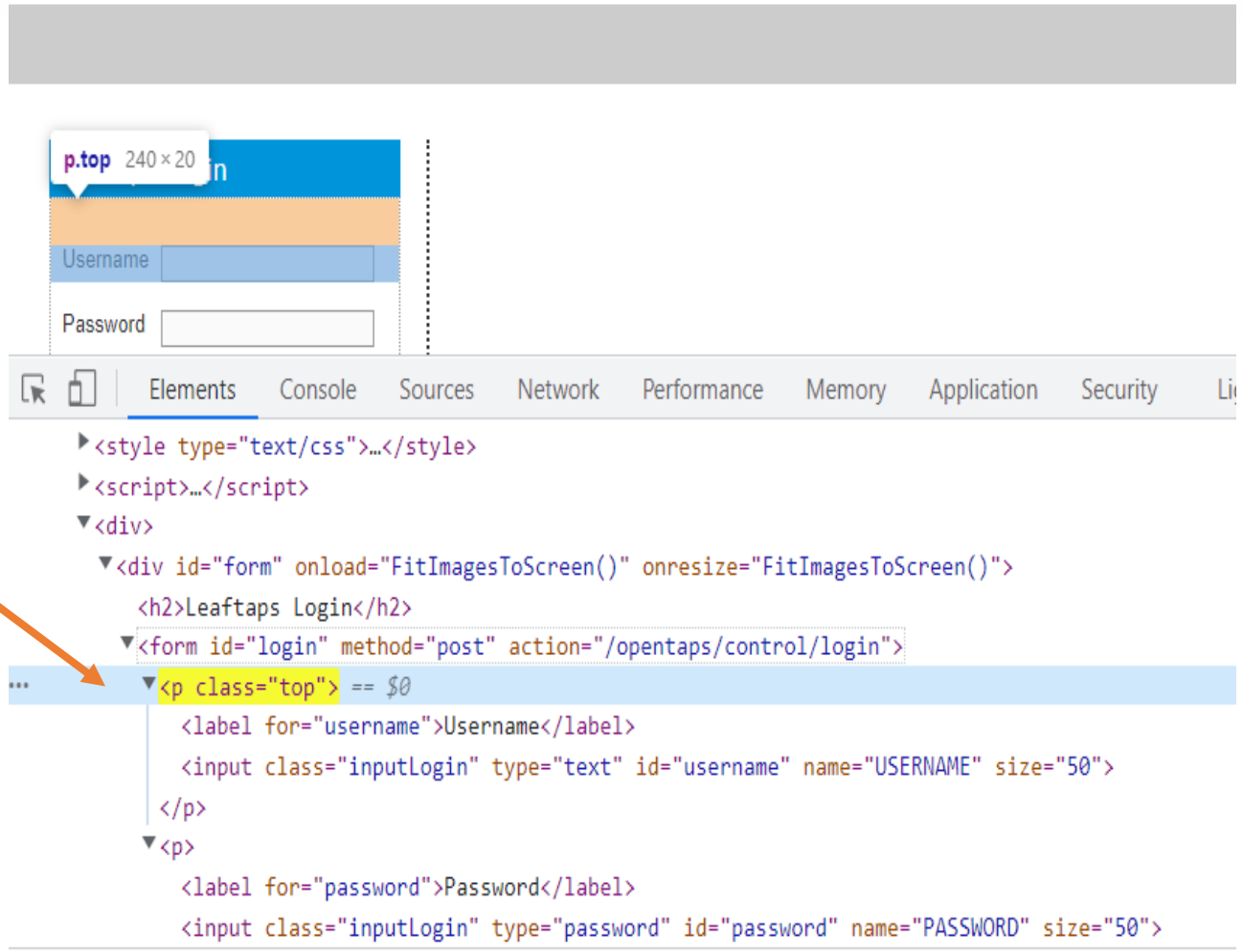


** ** represents the ancestor or grandparent
<form> represents parent to **<p>** and child of ** **
<p> represents child to **<form>**

Xpath-Axes (type 1 of 8)

Parent To child *:*

To reach the WebElement from <form>(**parent tag**) to <p> (**child**)



Syntax:

(parent realtive xpath)/(tagName of child)

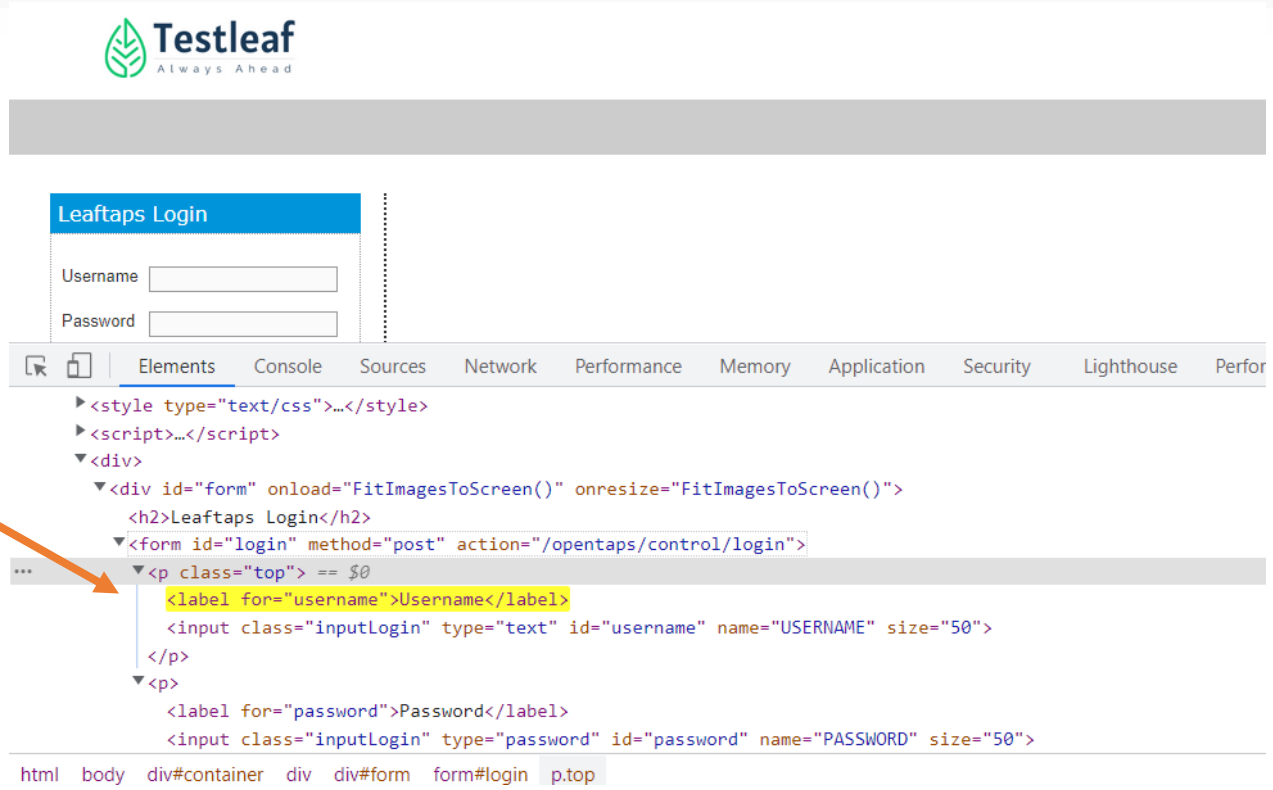
Example:

//form[@id='login']/p

Xpath-Axes (type 2 of 8)

GrandParent to child Relation **:**

To reach the WebElement from <form>(**grandparent tag**) to <label> (**grand-child**)



Syntax:

GrandParent relative xpath//tagName of grand child

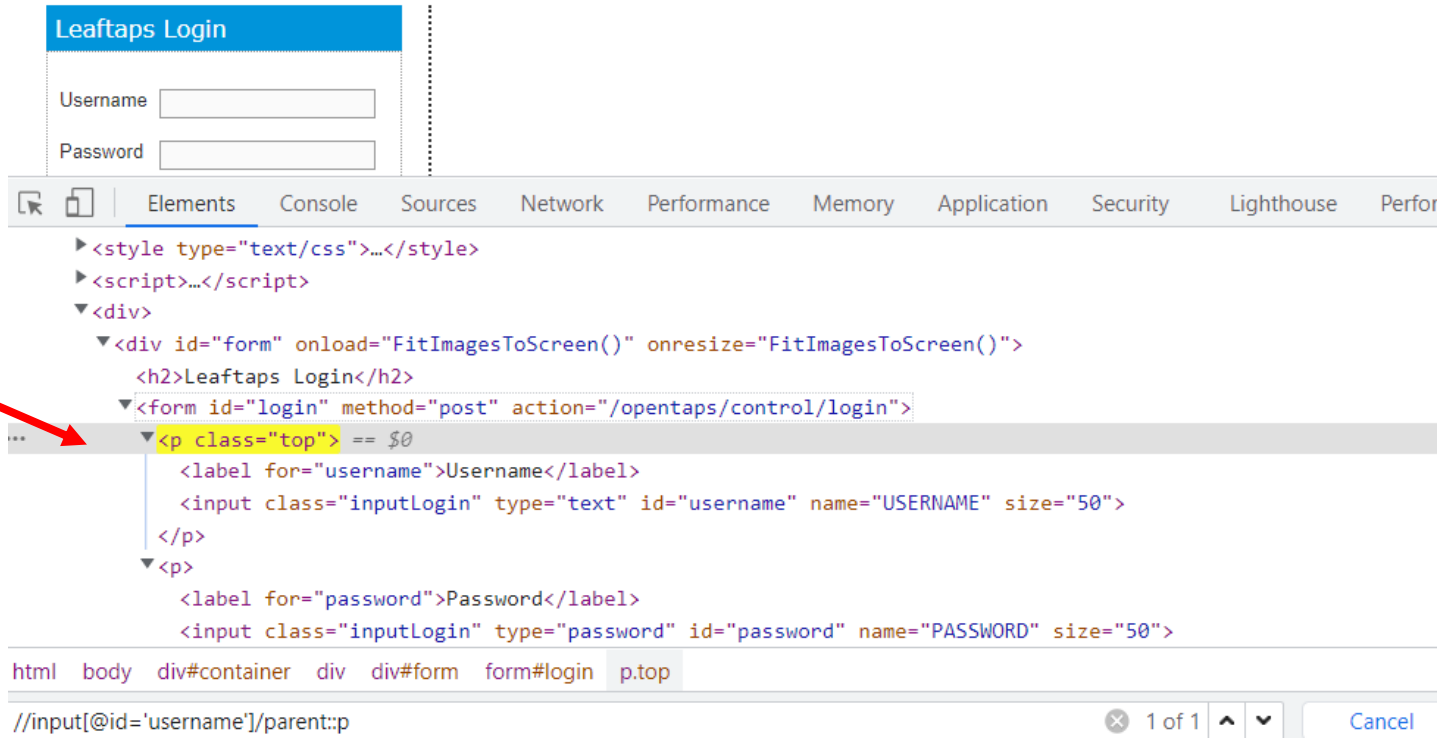
Example:

(//form[@id='login']//label)

Contd..

Xpath-Axes (type 3 of 8)

Child to parent *:*
To reach the WebElement from <**p**>(**child**)
to <form> (**parent**)



Syntax:

Child relative xpath/parent::parent tagName

Example

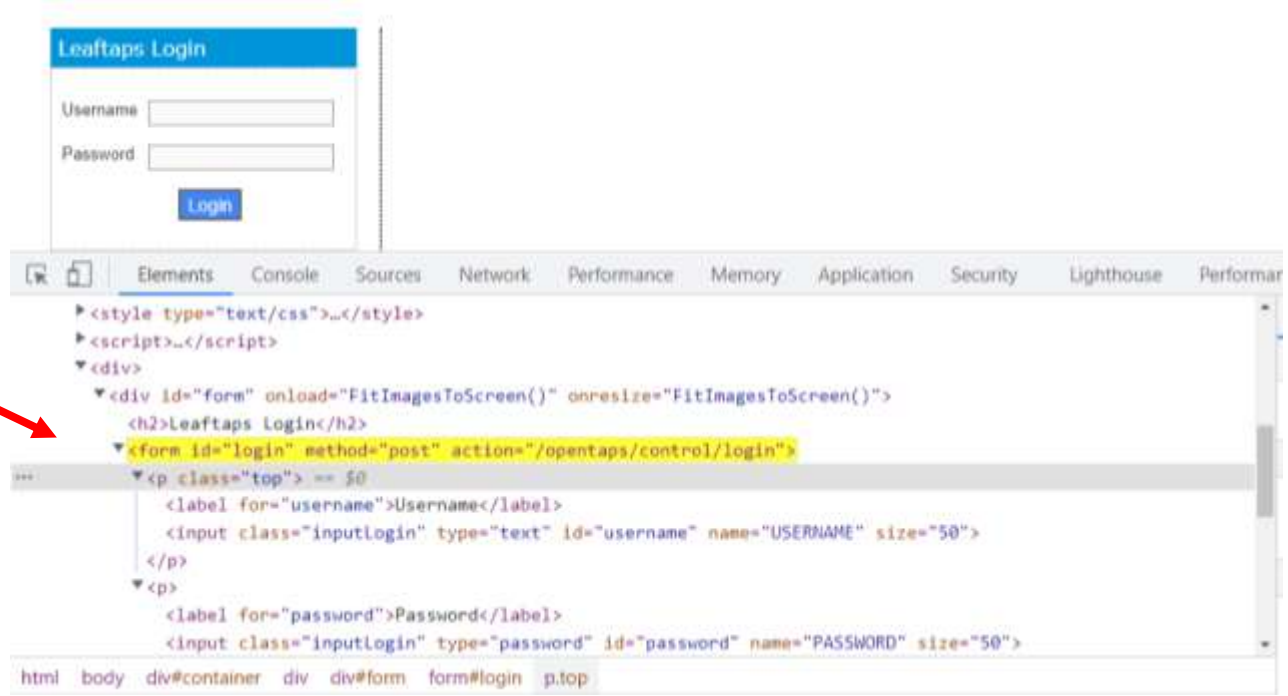
//input[@id='username']/parent::p

Contd..

Xpath-Axes(type 4 of 8)

GrandChild to Grand parent :

To reach the WebElement from <**label**>(**grand-child**) to <form> (**grand-parent**) , we have the keyword **ancestor**



Syntax:

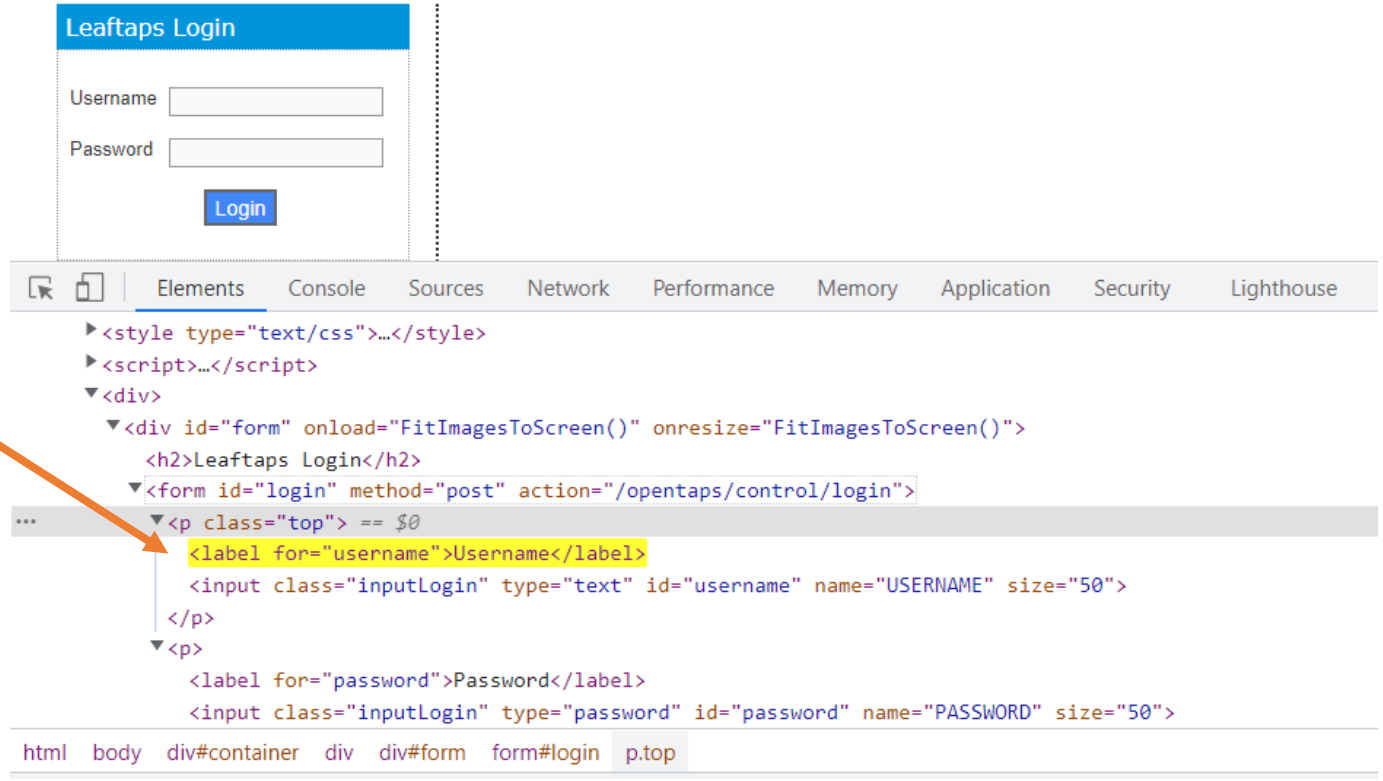
GrandChild relative xpath/ancestor::tagName of grand parent
Example:
//input[@id='password']/ancestor::form

Contd..

Xpath-Axes(type 6 of 8)

Younger Sibling to elder Sibling:

To reach the WebElement from Second **<label> (child)** to first**<label> (child)** of same parent we have the keyword **preceding-sibling(finding from bottom to top)**



Syntax:

Younger sibling relative xpath/preceding-sibling::tagName of Elder sibling

Example

//input[@id='username']/preceding-sibling::label

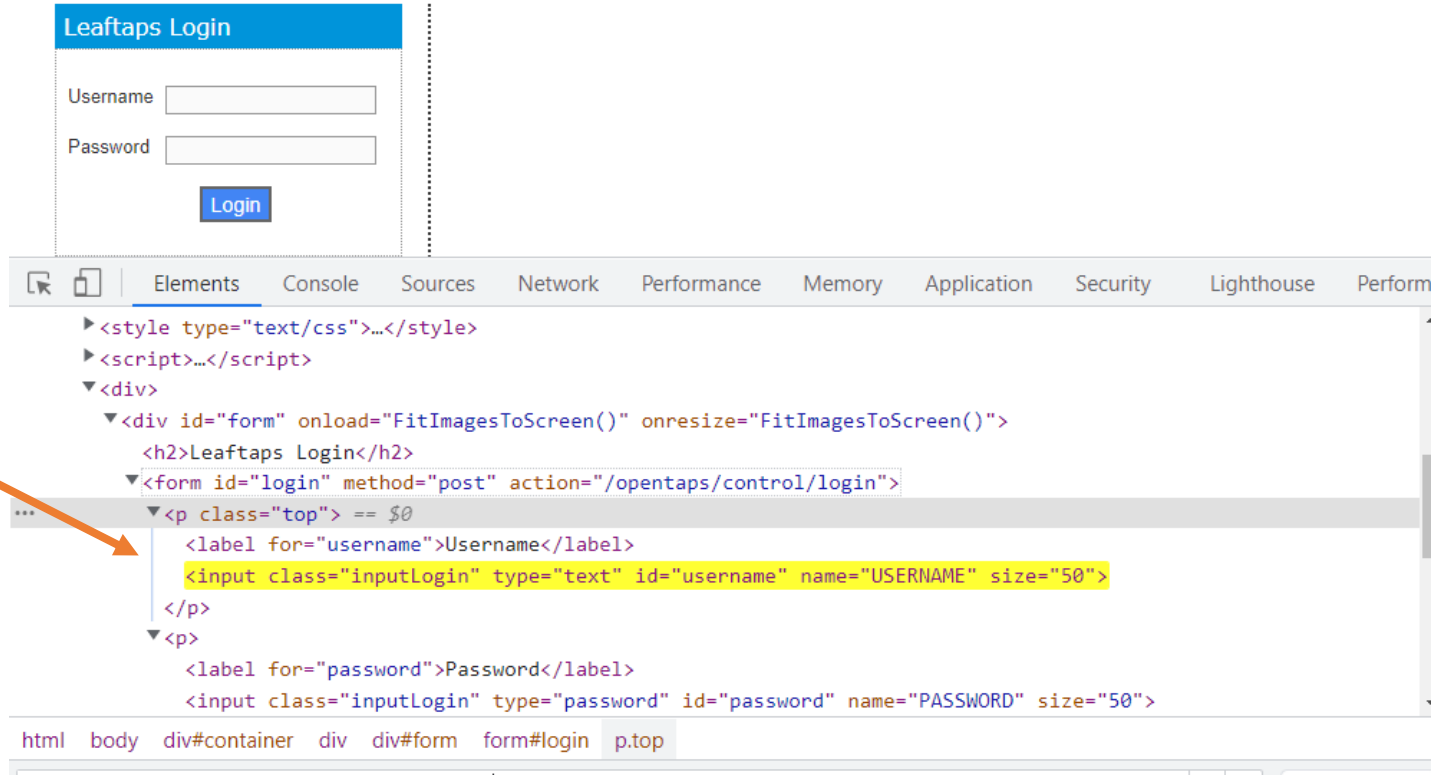
Xpath-Axes(type 5 of 8)

Elder Sibling to Younger Sibling :

To reach the WebElement from **<label> (child)** to **<label> (child)** of same parent..

we have the keyword

following-sibling (finding from top to bottom)



Syntax:

(Elder sibling relative xpath)/following-sibling::tagName of younger sibling

Example:

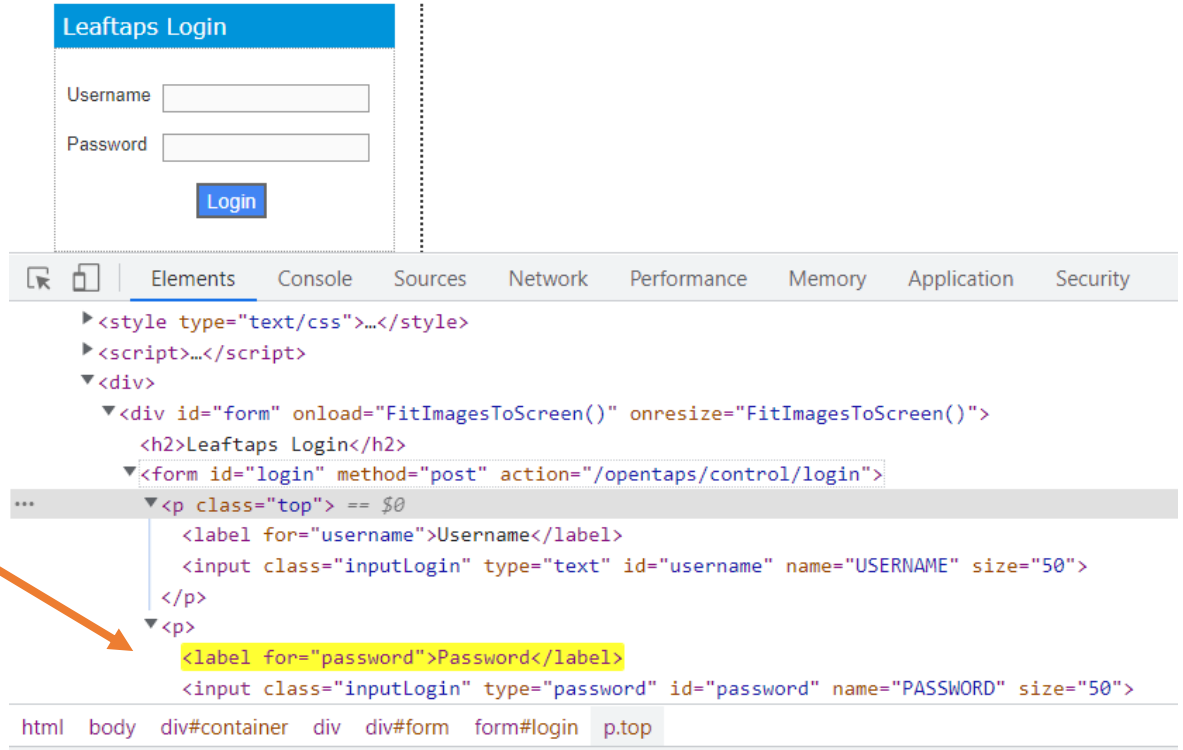
//label[text()='Username']/following-sibling::input

Contd..

Xpath-Axes(type 7 of 8)

Elder cousin to Younger cousin :

To reach the WebElement from first parent child**<label> (child)** to second parent child **<label> (child)** we have the keyword **following** **(finding from top to bottom)**



Syntax:

Elder cousing relative xpath/following::tagName of younger Cousin

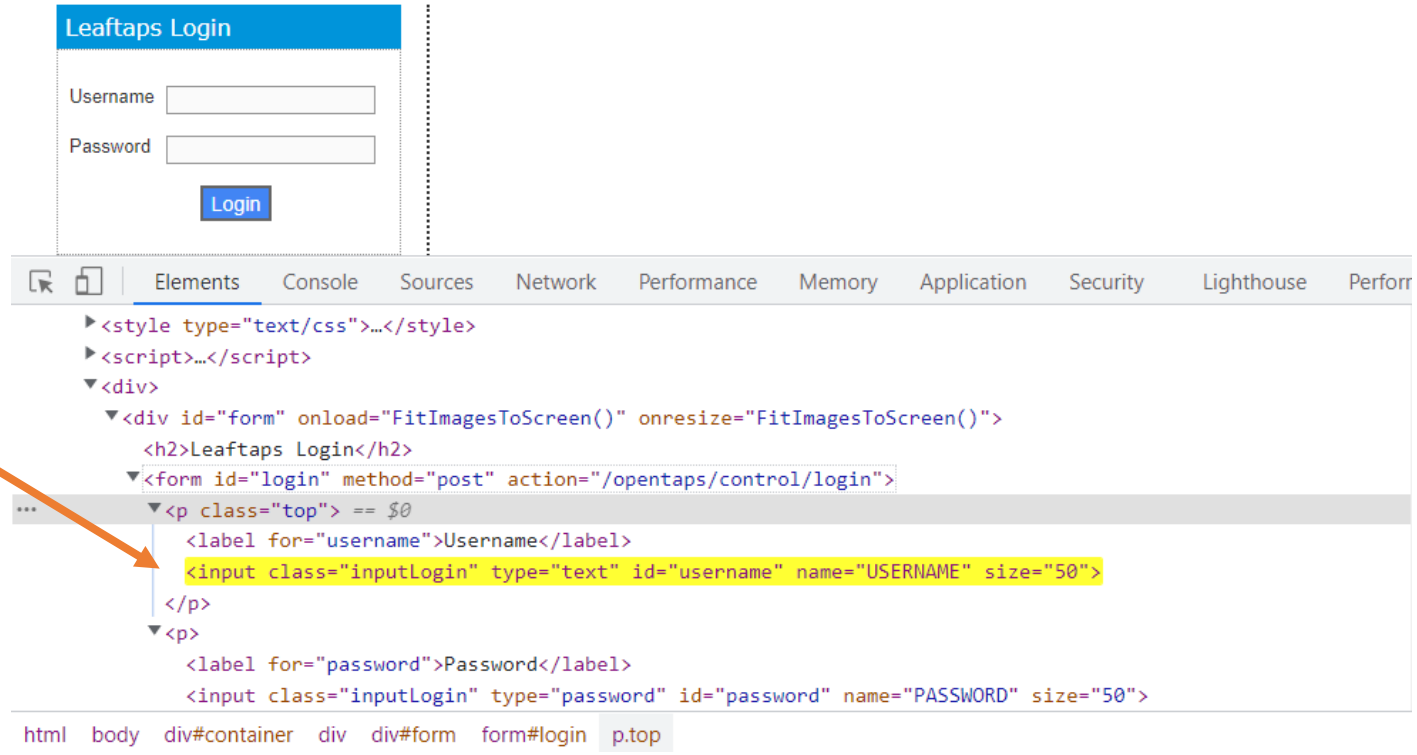
Example

//input[@id='username']/following::label

Xpath-Axes(type 8 of 8)

Younger cousin to Elder cousin :

To reach the WebElement from second parent child<**label> (child)** to first parent child <**label**> (**child**) we have the keyword **preceding(finding from bottom to top)**



Syntax:

Younger cousin xpath/preceding::tagName of Elder cousin

Example

//label[text()='Password']/preceding::input

Quick Recall

- ✓ Axes Xpath-What , when, How?
- ✓ 8 types of Relationship based Xpath
- Parent to Child & Viceversa
- Grandparent to Grandchild & Viceversa
- Sibling:

  Elder to younger

  Younger to Elder
- Cousin

  Elder to younger

  Younger to Elder

Interview Tips