

# Locators in Selenium

**Presented By**

Dwarika Dhish Mishra

Email : [dwarika1987@gmail.com](mailto:dwarika1987@gmail.com)

Mob: 9999978609

Blog: <http://abodeqa.wordpress.com>

## **What are locators?**

Locators are a way to tell selenium which specific element we want it to act on

### **Locators used:**

- Id
- Name
- Class
- Tag
- linkText
- Xpath
- CSSLocator

# Finding Element By Id

- Id attribute is most preferred way to locate element on a webpage, since as per W3C standard every element should have a unique Id so that It could be indentified uniquely

```
<form name="loginForm">
```

```
<label for="username">UserName: </label> <input  
  type="text"
```

```
  id="username" /><br/>
```

```
<label for="password">Password: </label> <input  
type="password" id="password" /><br/>
```

```
<input name="login" type="submit" value="Login" />  
</form>
```

# Finding Element By Id

So to perform action on Username and Password in Selenium WebDriver we need write this line of code

```
WebElement username = driver.findElement(By.Id("username"));  
WebElement password = driver.findElement(By.Id("password"));
```

# Finding Element by Name

```
<form name="loginForm">
```

```
<label for="username">UserName: </label>
```

```
<input type="text" name="username" /><br/>
```

```
<label for="password">Password: </label>
```

```
<input type="password" name="password" /><br/>
```

```
<input name="login" type="submit" value="Login" />
```

```
</form>
```

# Finding Element by Name

Since in some situations we don't have Id attribute provided in HTML so in that case we use some other attribute like name and Class and Tagname

So Line of code that we need to use

```
WebElement username = driver.findElement(By.Name("username"));
```

```
WebElement username = driver.findElement(By.Name("password"));
```

# Find Element by Xpath

- **Using Direct Xpath**

Like `/html/body/Element`

- **Using nth of type**

- **Using attribute**

Like `//input[@name='username']`

- **Using partial match by using contain() function**

`//input[Contains(@name,'user')]`

# Continue...

- **Pattern matching using starts-with() function**

```
$x("//input[starts-with(@id,'us')]")
```

- Pattern matching using ends-with() function

```
$x("//input[ends-with(@id,'name')]")
```

- **Finding element using substring() function  
when we are dealing with some dynamic  
element**

```
$x("//input[substring(@id,3)='ername']")
```



# Continue...

- **Axis method**

- **following-sibling::HTML tag**

Like `$x("//input[substring(@id,3)='ername']/following-sibling::input[@id='password']")`

Or

`$x("//input[substring(@id,3,5)='ernam']/following-sibling::input[@id='password']")`

- **preceding-sibling::HTML tag**

- **using ‘..’ to navigate to parent**

`$x("//input[substring(@id,3)='ername']/..")`

# Coming session topic

-CSS Locator

- Launching Chrome Browser /Firefox Browser/IE Browser
- Testng framework and its annotation used in Selenium

Thank you !!