

Selenium WebDriver Tutorial WebElement Methods

total-qa August 30, 2018 No Comments

In this example we will discuss about the `WebElement` Methods available in Selenium WebDriver. Refer to the Link for [WebElement API Methods](#).

Generally we mainly use methods like `sendKeys()`, `click()`, `getText()`. But they are so many other methods available to verify the input data entered by the user in the textbox. Verify the Css Attributes like `color` and `font-size` of the Web Element.

Is WebElement is a Interface or Class??

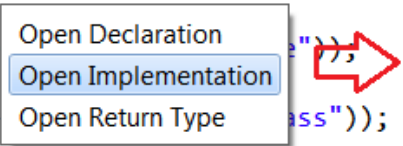
Answer:: Interface

WebElement is an interface and all the abstract methods in the interface are implemented by the `RemoteWebElement` Class. Refer to the Link to get more information on [Inheritance and Interfaces](#).

How do we know the Class which are implementing the Interface??

Hold the control button in the keyboard and place the mouse on the method and select `Open Implementation` as shown below to get the details of the classes which are implementing the interface.

```
String enteredText = e.getAttribute("value"); //Retrieve the value entered as total-qa
System.out.println("Entered Text:: " + enteredText);
System.out.println("id:: " + e.getAttribute("id"));
System.out.println("name:: " + e.getAttribute("name"));
System.out.println("class:: " + e.getAttribute("class"));
e.clear(); //Clear the Default Text
System.out.println("location:: " + e.getLocation()); //Returns the Location of the WebElement
System.out.println("size:: " + e.getSize());
```



Hold the control button and place mouse hover on the

Classes implementing the interface WebElement

```

driver.get("http://total-qa.com/live-examples/loginpage/");

WebElement e = driver.findElement(By.id("username"));
e.sendKeys("total-qa");

String enteredText = e.getAttribute("value");

System.out.println("Entered Text:: " + enteredText);

System.out.println("id:: " + e.getAttribute("id"));

System.out.println("name:: " + e.getAttribute("name"));

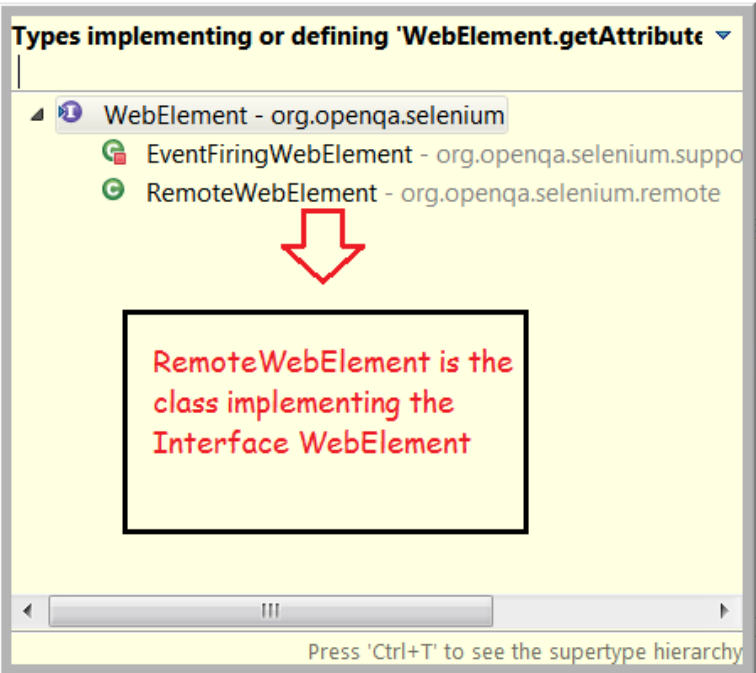
System.out.println("class:: " + e.getAttribute("class"));

e.clear(); //Clear the Default Text

System.out.println("location:: " + e.getLocation());

System.out.println("size:: " + e.getSize());

```



RemoteWebElement Class implementing the WebElement Interface

```
getCssValue("background-color")
```

Returns the Color of the WebElement

```
getCssValue("font-size")
```

Returns the font-size

```
getLocation()
```

Returns the Location of the WebElement. A point, containing the location of the top left-hand corner of the element

```
getAttribute("value")
```

Returns the input data entered by the user in the Text box using `sendKeys()` method.

Example for fetching the background-color and font-size of the Elements in the Web Page:

```

1 import java.io.IOException;
2 import org.openqa.selenium.By;
3 import org.openqa.selenium.WebElement;
4 import org.openqa.selenium.firefox.FirefoxDriver;
5 public class WebElementMethods {
6
7     public static void main(String[] args) throws IOException {
8
9         System.setProperty("webdriver.gecko.driver", "geckodriver.exe");
10        FirefoxDriver driver = new FirefoxDriver();
11
12        driver.get("http://total-qa.com/live-examples/loginpage/");

```

```
13
14     WebElement e = driver.findElement(By.id("username"));
15     e.sendKeys("total-qa");
16
17     String enteredText = e.getAttribute("value"); //Retrieve the value entered as total-qa
18
19     System.out.println("Entered Text::  "+ enteredText);
20
21     System.out.println("id:: " + e.getAttribute("id"));
22
23     System.out.println("name:: " +e.getAttribute("name"));
24
25     System.out.println("class:: " +e.getAttribute("class"));
26
27     e.clear(); //Clear the Default Text
28
29     System.out.println("location:: " +e.getLocation()); //Returns the Location of the WebElement
30
31     System.out.println("size:: " +e.getSize());
32
33     System.out.println("color:: " +e.getCssValue("background-color"));
34
35     System.out.println("fontsize:: " +e.getCssValue("font-size"));
36
37     System.out.println("Tag Name:: " + e.getTagName());
38
39
40
41
42     }
43 }
```

Output:

Entered Text:: total-qa

id:: username

name:: username

class:: textboxcolor padding

location:: (268, 849)

size:: (231, 30)

color:: rgb(255, 255, 0)

fontsize:: 13.3333px

Tag Name:: input

Conclusion:

In this example we have learnt how to use the `WebElement Methods` in Selenium WebDriver.