Todays Topic: 08-03-2022

WebDriver Methods

1. void get(String url):

 - It is used to open the url
 - It will wait till the whole page gets loaded before returning control to your test or script

Syntax: driverInstance.get(String url);

Example:

```java
package webdriver_methods;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class GetMethod {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        String url = "https://www.google.com/";

        System.setProperty("webdriver.chrome.driver",
         "C:\\Users\\MyDeLL\\Desktop\\Selenium_Sessions\\Drivers\\chromedriver_win32\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();

        driver.get(url);
    }
}
```

2. String getCurrentUrl():

 - It will return the current URl

Syntax: driverInstance.getCurrentUrl();

```java
package webdriver_methods;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class GetCurrentUrl {

    public static void main(String[] args)  {
        // TODO Auto-generated method stub
        String url = "https://opensource-demo.orangehrmlive.com/index.php/auth/login";
        System.setProperty("webdriver.chrome.driver",
        "C:\\Users\\MyDeLL\\Desktop\\Selenium_Sessions\\Drivers\\chromedriver_win32\\chromedriver.exe");

        WebDriver driver = new ChromeDriver();
        driver.get(url);

        driver.findElement(By.xpath("//a[text()='Forgot your password?']")).click();

        String current_url= driver.getCurrentUrl();

        System.out.println("This is couuent Url:"+ current_url);

        //driver.close();
    }

}
```

Problems @ Javadoc Declaration Console ×
<terminated> GetCurrentUrl [Java Application] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (08-Mar-2022, 1:38:15 pm – 1:38:43 pm)
INFO: Found CDP implementation for version 99 of 97
This is couuent Url:https://opensource-demo.orangehrmlive.com/index.php/auth/requestPasswordResetCode

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3. String getTitle();

- It will return the title of the current page

Syntax: driverInstance.getTitle();

```java
1  package webdriver_methods;
2
3  import org.openqa.selenium.WebDriver;
4  import org.openqa.selenium.chrome.ChromeDriver;
5
6  public class GetTitle {
7
8      public static void main(String[] args)   {
9          // TODO Auto-generated method stub
10
11         String url = "https://www.google.com/";
12         System.setProperty("webdriver.chrome.driver",
13         "C:\\Users\\MyDeLL\\Desktop\\Selenium_Sessions\\Drivers\\chromedriver_win32\\chromedriver.exe");
14
15         WebDriver driver = new ChromeDriver();
16         driver.get(url);
17
18         String current_title= driver.getTitle();
19         System.out.println("This is current Title:"+ current_title);
20         //driver.close();
21     }
22 }
23
```

Problems @ Javadoc Declaration Console ×
<terminated> GetTitle [Java Application] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (08-Mar-2022, 1:46:11 pm – 1:46:48 pm)
Mar 08, 2022 1:46:38 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
INFO: Found CDP implementation for version 99 of 97
This is current Title:Google

4. String getPageSource():

It will return the source of the current page

Syntax: driverInstance.getPageSource();

```java
4  import org.openqa.selenium.chrome.ChromeDriver;
5
6  public class GetPageSource {
7
8      public static void main(String[] args)    {
9          // TODO Auto-generated method stub
10
11         String url = "https://opensource-demo.orangehrmlive.com/index.php/auth/login";
12         System.setProperty("webdriver.chrome.driver",
13         "C:\\Users\\MyDeLL\\Desktop\\Selenium_Sessions\\Drivers\\chromedriver_win32\\chromedriver.exe");
14
15         WebDriver driver = new ChromeDriver();
16         driver.get(url);
17
18         String page_source= driver.getPageSource();
19         System.out.println("This is Page Source:"+ page_source);
20     }
21 }
```

Problems @ Javadoc Declaration Console ×

<terminated> GetPageSource [Java Application] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (08-Mar-2022, 1:53:00 pm – 1:53:48 pm)

INFO: Found CDP Implementation for version 99 of 97

```html
This is Page Source:<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en"><head>

        <title>OrangeHRM</title>

        <meta http-equiv="Content-Type" content="text/html; charset=utf-8">


        <!-- Library CSS files -->
```

Activate Windows
Go to PC settings to activate Window

IQ: What is difference between close()&quit()

5. void close();

- It is used to close the currently active window.

Syntax: driverInstance.close();

6. void quit

- It is used to close all the browsers which are opened by a WebDriver.

Syntax: driverInstance.quit();

URL Used: = `"https://only-testing-blog.blogspot.com/2014/01/textbox.html";`

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7. String getWindowHandle();

- This method is used to get the currently active window Id.
- The return type of this method is String.

Syntax: driverInstance.getWindowHandle();

Example

```java
3  import org.openqa.selenium.By;
4  import org.openqa.selenium.WebDriver;
5  import org.openqa.selenium.chrome.ChromeDriver;
6
7  public class GetWindowHandle {
8
9      public static void main(String[] args) {
10         // TODO Auto-generated method stub
11         String url = "https://only-testing-blog.blogspot.com/2014/01/textbox.html";
12
13         System.setProperty("webdriver.chrome.driver",
14         "C:\\Users\\MyDeLL\\Desktop\\Selenium_Sessions\\Drivers\\chromedriver_win32\\chromedriver.exe");
15
16         WebDriver driver = new ChromeDriver();
17         driver.get(url);
18         driver.findElement(By.xpath("//b[contains(text(),'Open New Page')]")).click();
19
20         String tabonehandle = driver.getWindowHandle();
21         System.out.println(tabonehandle + " is current browser window handle.");
22     }
23 }
24
```

Problems @ Javadoc Declaration Console ×
<terminated> GetWindowHandle [Java Application] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (08-Mar-2022, 3:16:28 pm – 3:17:21 pm)
WARNING: Unable to find an exact match for CDP version 99, so returning the closest version found: 97
Mar 08, 2022 3:16:59 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
INFO: Found CDP implementation for version 99 of 97
CDwindow-EFE88DD790E19B600E8E001E22A4E033 is current browser window handle.

---

8. Set<String> getWindowHandles();

- This method is used to get all the window Id's, which is open by the WebDriver.
- The return type of this method is Set of String.

Syntax: Set<String> command= driverInstance.getWindowHandles();

Example

```java
1 package webdriver_methods;
2
3 import java.util.Iterator;
4 import java.util.Set;
5
6 import org.openqa.selenium.By;
7 import org.openqa.selenium.WebDriver;
8 import org.openqa.selenium.chrome.ChromeDriver;
9
10 public class GetWindowHandle {
11
12     public static void main(String[] args) {
13         // TODO Auto-generated method stub
14         String url = "https://only-testing-blog.blogspot.com/2014/01/textbox.html";
15
16         System.setProperty("webdriver.chrome.driver",
17         "C:\\Users\\MyDeLL\\Desktop\\Selenium_Sessions\\Drivers\\chromedriver_win32\\chromedriver.exe");
18
19         WebDriver driver = new ChromeDriver();
20         driver.get(url);
21         driver.findElement(By.xpath("//b[contains(text(),'Open New Page')]")).click();
22
23         String tabonehandle = driver.getWindowHandle();
24         System.out.println(tabonehandle + " is current browser window handle.");
25
26         Set<String> allhandles = driver.getWindowHandles();
27
28         // Iterate through allhandles
29         Iterator<String> it = allhandles.iterator();
30
31         String tabTwoHandle = null;
32
33         while (it.hasNext()) {
34             // Store iterator window handle value in temp
35             String temp = it.next();
36
37             // compare temp value with tabonehandle
38             if (!tabonehandle.equalsIgnoreCase(temp)) {
39                 // If not match with tabonehandle then it is tab two handle and store it in
40                 // tabtwohandle.
41                 tabTwoHandle = temp;
42                 System.out.println(tabTwoHandle + " is tab two window handle.");
43             }
44         }
45         System.out.println(tabonehandle + " is current browser window handle.");
46     }
47 }
48
```

```
Problems  @ Javadoc  Declaration  Console X
<terminated> GetWindowHandle [Java Application] C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe  (08-Mar-2022, 3:24:35 pm – 3:26:01 pm)
INFO: Found CDP implementation for version 99 of 97
CDwindow-40F9EA65ACEB3534DAB231D677A7E549 is current browser window handle.
CDwindow-0ADC8C8008D38F1A94DEC3A983049D24 is tab two window handle.
CDwindow-40F9EA65ACEB3534DAB231D677A7E549 is current browser window handle.
```

9. STargetLocator switchTo();

It is used switch to different window with the help of window_handle_value/ window_handle_value id

Sytax: driverInstance.switchTo().window('window_handle_value');

```java
1  package webdriver_methods;
2
3  import java.util.Iterator;
9
10 public class GetWindowHandle {
11
12     public static void main(String[] args) {
13         // TODO Auto-generated method stub
14         String url = "https://only-testing-blog.blogspot.com/2014/01/textbox.html";
15
16         System.setProperty("webdriver.chrome.driver",
17         "C:\\Users\\MyDeLL\\Desktop\\Selenium_Sessions\\Drivers\\chromedriver_win32\\chromedriver.exe");
18
19         WebDriver driver = new ChromeDriver();
20         driver.get(url);
21         driver.findElement(By.xpath("//b[contains(text(),'Open New Page')]")).click();
22
23         String tabonehandle = driver.getWindowHandle();
24         System.out.println(tabonehandle + " is current browser window handle.");
25
26         Set<String> allhandles = driver.getWindowHandles();
27
28         // Iterate through allhandles.
29         Iterator<String> it = allhandles.iterator();
30
31         String tabTwoHandle = null;
32
33         while (it.hasNext()) {
34             // Store iterator window handle value in temp
35             String temp = it.next();
36
37             // compare temp value with tabonehandle
38             if (!tabonehandle.equalsIgnoreCase(temp)) {
39                 // If not match with tabonehandle then it is tab two handle and store it in
40                 // tabtwohandle.
41                 tabTwoHandle = temp;
42                 System.out.println(tabTwoHandle + " is tab two window handle.");
43             }
44         }
45         System.out.println(tabonehandle + " is current browser window handle.");
46
47         // Switch to tab two of browser using tabtwohandle
48             driver.switchTo().window(tabTwoHandle);
49
50             // type text in text box of tab two
51             driver.findElement(By.id("fname")).sendKeys("some text");
52
53             // Switch to tab one of browser using tabonehandle
54             driver.switchTo().window(tabonehandle);
55             // select radio button on tab one.
56             driver.findElement(By.id("radio2")).click();
57     }
58 }
```

Activate Windows