Selenium WebDriver Training

Target Locators
Window Handling



Window handle-Unique address



Each house holds unique address



The Golden Circle

What is WindowHandle?

Holds unique address of browser window /tab

Why do we need to handle it?

To switches between the multiple windows

How to handle it?

Transfer the driver control to child window



More about window handling...

✓ -to handle multiple windows scenarios in selenium ,window handler is used .

- ✓ -Window handles holds the address of the each opened browser window/tab
- ✓ -Window handles are unique for each window/tab and returns the address of each window as alphanumeric characters.

Ex:CDwindow-BD4E4EE55706D7CB7EA652049B03B152 CDwindow-B795D2AA615D39AFC20F6D2D904412DF

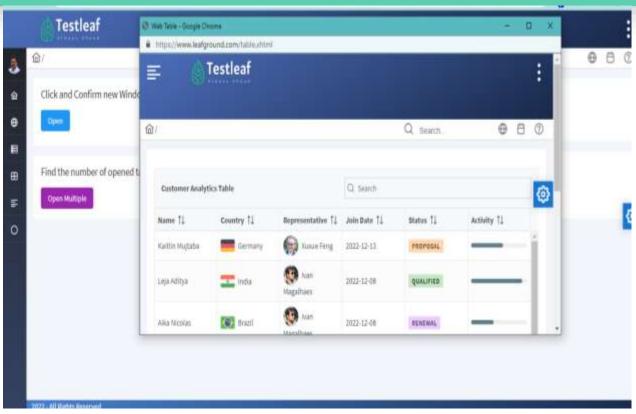


Window Handle

To get the address of opened windows, the selenium provides two methods.

getWindowHandle() -> to get the current window id
as a string

getWindowHandles ()->returns the set of all the opened windows
/tab as Set<string>





How to Handle it?

To handle windows

✓ Transfer the driver focus to requied window

syntax:

driver.switchTo().Window(Windowname);

Note: Return type of it is webdriver interface and the implementation class is RemoteWebDriver



Steps to handle multiple windows

```
Step:1
  Get the window Handles
     Set<String> windowHandles= driver. getWindowHandles();
Step:2
  Convert the set to list
                     List<String> childWindow = new ArrayList<String>(windowHandles);
                     for (int i = 0; i <= childWindow.size(); i++) {</pre>
                         String title = driver.switchTo().window(childWindow.get(1)).getTitle();
                         System.out.println(title);
                         driver.findElement(By.linkText("Button")).click();
                         driver.close();
                         driver.switchTo().window(childWindow.get(0)).getTitle();
Step:3
```

Use SwitchTo method to switch between the windows using the Windowhandle



Classroom

- 1. Load https://www.irctc.co.in/
- 2. Click on FLIGHTS link
- 3. Get the title (filghts window -AirTicket)
- 4. Close the First tab(Train ticket booking) alone



Summary

- Window handle-> hold the unique address of the web element
- To be handled by switching the driver control into the webElement
- getWindowHandle() ->hold the address of the current webpage getWindowHandles()->holds the address of all opened browsers



Mind Map

driver.quit(); closes the all opened browsers Holds the address of multiple Holds unique address windows/tab of the window To navigate to driver.SwitchTo(). driver.getWindowHandles() next window window(winHandle) **Window Handle** driver.getWindowHandle() Holds the NoSuchWindowEception driver.close(); address of closes the current active current active window/tab window