

Session 4.6

Alerts, Frames, Windows

# AN INITIATIVE BY



## Introduction





Let's go!!!

# Alerts, Frames, Windows



### **Alerts:**

- The alerts are pop-ups that appear on clicking a link or a button. Immediately after it appears on the page, the focus is shifted from the current page to the alert.
- To work with an alert pop up we need to switch the driver focus from the parent page to the pop up generated. his is achieved with the help of the **switch\_to.alert ()** method.

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#### **Syntax:**

a = driver.switcht\_to.alert ();

- After switching the focus on the alert, we can accept, dismiss, or get the text displayed in the alert.
- For accepting the alert or clicking on the OK button, we have to use the method as a accept ().
- Next to dismiss or to click on the X symbol, the alert method to be used is a.dismiss ().
- If we want to extract text on the pop-up, the method to be used is a.getText().
- Also, we can input text on the alert with the a.send\_keys () method.



### **Code Implementation with Alert:**

```
# import the webdriver
from selenium import webdriver
# import the Keys class
from selenium.webdriver.common import keys
driver = webdriver.Chrome (executable path="C:\\chromedriver.exe")
# get method to launch the URL
driver.get("http://183.82.4.93:5887/moss/javascript-alert-test-page.html")
# to identify the element
I = driver.find element by xpath ("//*[@id = 'content']/button")
# to click the button
l.click()
# to switch to the alert
a = driver.switch to.alert();
# to get the alert text
print ( a.text)
# to accept the alert
a.accept ()
# again producing the alert
I = driver.find element by xpath ("//*[@id = 'content']/button")
# to click the button
I.click ()
# to dismiss the alert
a.dismiss ()
# to close the browser
driver.close ()
```

## **Handling Windows**



### **Handling Windows**

A window in any browser is the main webpage on which the user is landed after hitting a link/URL. Such a window in <u>Selenium</u> is referred to as the parent window also known as the main window

#### **Syntax:**

- get.windowhandle(): This method helps to get the window handle of the current window
- get.windowhandles(): This method helps to get the handles of all the windows opened
- set: This method helps to set the window handles in the form of a string.
   set<string> set= driver.get.windowhandles()
- **switch to:** This method helps to switch between the windows
- action: This method helps to perform certain actions on the windows

### Alert interface methods



### **Handling Windows**

Selenium WebDriver provides three methods to accept and reject the Alert depending on the Alert types.

- void dismiss()
- This method is used to click on the 'Cancel' button of the alert.
  - Syntax:
  - driver.switchTo().alert().dismiss();
- void accept()
- This method is used to click on the 'Ok' button of the alert.
  - Syntax:
  - o driver.switchTo().alert().accept();
- String getText()
- This method is used to capture the alert message.
  - Syntax:
  - driver.switchTo().alert().getText();
- void sendKeys(String stringToSend)
- This method is used to send some data to the alert box.
  - Syntax:
  - o driver.switchTo().alert().sendKeys("Text");



### **UNICAL ACADEMY**

# **Handling Frames /IFrames**

**iFrame in Selenium Webdriver** is a web page or an inline frame which is embedded in another web page or an HTML document embedded inside another HTML document.

#### 1. Switch to the frame by index:

- Index is one of the attributes for frame handling in Selenium through which we can switch to it.
- Index of the iframe starts with '0'.
- Suppose if there are 100 frames in page, we can switch to frame in Selenium by using index.

#### **Syntax:**

```
driver.switchTo().frame(0);
driver.switchTo().frame(1);
```

#### 2. Switch to the frame by Name or ID:

 Name and ID are attributes for handling frames in Selenium through which we can switch to the iframe.

#### **Syntax:**

```
driver.switchTo().frame("iframe1");
driver.switchTo().frame("id of the element");
```



#### 3. Switch to the frame by Name or ID:

#### **Syntax:**

driver.switchTo().frame(WebElement frameElement);

#### **Code Implementation with frames:**

```
# import the webdriver
from selenium import webdriver
# import the Keys class
from selenium.webdriver.common import keys
driver = webdriver.Chrome (executable_path="C:\\chromedriver.exe")
# get method to launch the URL
driver.get ("http://183.82.4.93:5887/moss/nested_frames")
# to switch to a frame with name attribute
driver.switch_to.frame ("frame-bottom")
# to identify an element inside that frame and get text
print ( driver.find_element_by_css_selector ("body").text)
# to switch to the main page content
driver.switch_to.default_content ()
# to close the browser
driver.close ()
```

# **Handling Nested Frames**



### **Nested frames:**

- At first we must switch to the outer frame by either Index or ID of the iframe.
- Once we switch to the outer frame we can find the total number of iframes inside the outer frame, and.
- We can switch to the inner frame by any of the known methods.

#### **Syntax to find frame count:**

driver.findElement(By.tagName("iframe")).getSize();

### **Syntax to print frame count in develop console:**

System.out.println(driver.findElement(By.tagName("iframe")).getSize());



# **Handling multiple Browsers or Tabs**

Now let's take an example scenario to understand how it works. The scenario here is as follows:

- Open the Loan Management System URL.
- Search for "Branch" location.
- Save the URL of Branch.
- Open a new tab.
- Switch to the new tab and launch the stored URL.

#### To open the URL, use the sendKeys command as shown below:

driver.findElement(By.cssSelector("body")).sendKeys(Keys.CONTROL+ "t");

#### To switch back to the original tab:

driver.navigate().to("URL of the tab");

#### To close the Tab:

driver.close()

# TargetLocator interface methods



### **Interface WebDriver.TargetLocator:**

Modifier and Type	Method	Description
<u>WebElement</u>	activeElement()	Switches to the element that currently has focus within the document currently "switched to", or the body element if this cannot be detected.
<u>Alert</u>	alert()	Switches to the currently active modal dialog for this particular driver instance.
<u>WebDriver</u>	defaultContent()	Selects either the first frame on the page, or the main document when a page contains iframes.
<u>WebDriver</u>	<u>frame</u> (int index)	Select a frame by its (zero-based) index.
<u>WebDriver</u>	frame(java.lang.String nameOrld)	Select a frame by its name or ID.
WebDriver	<u>frame(WebElement</u> frameEleme nt)	Select a frame using its previously located WebElement.
<u>WebDriver</u>	<u>newWindow(WindowType</u> typeH int)	Creates a new browser window and switches the focus for future commands of this driver to the new window.
<u>WebDriver</u>	parentFrame()	Change focus to the parent context.
WebDriver	<u>window(j</u> ava.lang.String nameOr Handle)	Switch the focus of future commands for this driver to the window with the given name/handle.



# **Session Recap**

