



Selenium

Class 6

Agenda

Switch To Commands:

Handle Alerts

Handle Frames

Handle Windows

Alerts/PopUps

Alerts are basically popup boxes that away focus from the current browser and forces to read the alert message.

We need to do some action such as accept or dismiss the alert box to resume our task on the browser.

Alert prevents the user from accessing other parts of the web page until the box is closed.

Alerts will not allow any action on the underlying webpage if they are present. So if an alert is present on the webpage and you try to access any of the element in the underlying page you will get following exception:

UnhandledAlertException: Modal dialog present

Alerts/PopUps

There are two types of alerts:

Windows Based Alerts

Web Based/Browser Based/JavaScript Alerts

To handle alert window in Selenium Webdriver we have predefined Interface Alert .

Since alert is separate window so before using methods from Alert Interface we have to switch to alert window using **switchTo()** method

```
Alert alert = driver.switchTo().alert();
```

Types of Alerts

1) Simple Alert

Simple alert displays some information or warning on the screen.

2) Confirmation Alert

This confirmation alert asks permission to do some type of operation.

3) Prompt Alert

Prompt Alert asks some input from the user and selenium webdriver can enter the text using `sendKeys("input....")`.

Handle Alerts

Selenium provides us with an interface called Alert.

It is present in the `org.openqa.selenium.Alert` package.

Alert interface gives us following methods to deal with the alert:

- `accept()` To accept the alert
- `dismiss()` To dismiss the alert
- `getText()` To get the text of the alert
- `sendKeys()` To write some text to the alert

Simple Alert

Simple alerts just have a OK button on them. They are mainly used to display some information to the user.

Important point to note is that we need to switch from main window to an alert using the `driver.switchTo().alert()`.

```
Alert simpleAlert = driver.switchTo().alert();  
String alertText = simpleAlert.getText();  
system.out.println("Alert text is " + alertText);  
simpleAlert.accept();
```

Confirmation Alert

This alert comes with an option to accept or dismiss the alert.

To accept the alert you can use `Alert.accept()` and to dismiss you can use the `Alert.dismiss()`. Here is the code to dismiss a prompt alert.

```
Alert confirmationAlert = driver.switchTo().alert();  
String alertText = confirmationAlert.getText();  
system.out.println("Alert text is " + alertText);  
confirmationAlert.dismiss();
```


Prompt Alert

In prompt alerts you get an option to add text to the alert box.

This is specifically used when some input is required from the user.

We will use the `sendKeys()` method to type something in the Prompt alert box.

```
Alert promptAlert = driver.switchTo().alert();
String alertText = promptAlert.getText();
system.out.println("Alert text is " + alertText);
//Send some text to the alert
promptAlert.sendKeys("Accepting the alert");
promptAlert.accept();
```

Test Case

TC 1: JavaScript alert text verification

1. Open chrome browser
2. Go to
“<https://www.seleniumeasy.com/test/javascript-alert-box-demo.html>”
3. Verify
 - alert box with text “I am an alert box!” is present
 - confirm box with text “Press a button!” is present
 - prompt box with text “Please enter your name” is present
4. Quit browser