SELENIUM –HANDLING ALERTS & POPUPS

Lecture Notes

A COMPLETE GUIDE FOR BEGINNERS

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Selenium –Handling Alerts & Popups

Alert is a pop up window that comes up on screen. There are many user actions that can result in an alert on screen. For e.g. user clicked on a button that displayed a message or may be when you entered a form, HTML page asked you for some extra information. So in this chapter we will learn Handling of Alerts, JavaScript Alerts and Popup Boxes.

Types of Alerts

Java scrip provides mainly following three types of alerts:

1. Simple alert

```
document.alert("This is a simple alert");
//or
alert("This is a simple alert");
```

2. Confirmation alert

```
var popuResult = confirm("Confirm pop up with OK and Cancel button");
```

3. Prompt alert

```
var person = prompt("Do you like Softech Solution?", "Yes/No");
```

Handling alerts using Selenium WebDriver

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***

Let's use these to handle the above mentioned types of alerts one by one.

Simple alert

Simple alerts just have an **OK** button on them. They are mainly used to display some information to the user. The first alert on our test page is a simple alert. Following code will read the text from the Alert and then accept the alert. Important point to note is that we can switch from main window to an alert using the *driver.switchTo().alert()*. Below is the usage of that also:

```
public static void main(String[] args) {
      WebDriver driver = new FirefoxDriver();
      driver.get("http://softechsolutionsgroup.com/automation-
practice/handling-alerts.html");
      driver.manage().window().maximize();
      // This step will result in an alert on screen
      driver.findElement(By.xpath("//*[@id="content"]/div[1]/button"))
.click();

            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.

```
public static void main(String[] args) {
      WebDriver driver = new FirefoxDriver();
      driver.get("http://softechsolutionsgroup.com/automation-
      practice/handling-alerts.html");
      driver.manage().window().maximize();
      // This step will result in an alert on screen
      WebElement element =
      driver.findElement(By.xpath("//*[@id="content"]/div[2]/button"));
      ((JavascriptExecutor)driver).executeScript("arguments[0].click()"
      , element);

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

Prompt Alerts

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. Here is the code

```
public static void main(String[] args) throws InterruptedException {
      WebDriver driver = new FirefoxDriver();
      driver.get("http://softechsolutionsgroup.com/automation-
      practice/handling-alerts.html");
      driver.manage().window().maximize();
      // This step will result in an alert on screen
      WebElement element =
      driver.findElement(By.xpath("//*[@id="content"]/div[3]/button"));
      ((JavascriptExecutor)
      driver).executeScript("arguments[0].click()", element);

      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");
      Thread.sleep(4000); //This sleep is not necessary, just for
      demonstration
      promptAlert .accept();
}
```

That's pretty much it on the Alerts that we have.