Practical No. 6. Handling different types of alerts in Selenium

Date:	

Aim:

To learn how to handle various types of alerts in Selenium.

Theory:

An Alert in Selenium is a small message box which appears on screen to give the user some information or notification. It notifies the user with some specific information or error, asks for permission to perform certain tasks and it also provides warning messages as well. Here are few alerts in Selenium:

Simple Alert

The simple alert class in Selenium displays some information or warning on the screen.



Prompt Alert.

This Prompt Alert asks some input from the user and Selenium webdriver can enter the text using sendkeys(" input.... ").



Confirmation Alert.

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



Apart from switching between windows and frames, you may have to handle various modal dialogs in a web application. For this, WebDriver provides an API to handle alert dialogs. The API for that is as follows:

Alert alert()

The preceding method will switch to the currently active modal dialog on the web page. This returns an Alert instance where appropriate actions can be taken on that dialog. If there is no dialog currently present, and you invoke this API, it throws back a **NoAlertPresentException**.

The Alert interface contains a number of APIs to execute different actions. The following list discusses them one after the other:

void accept():

This is equivalent to the OK button action on the dialog. The corresponding OK button actions are invoked when the accept() action is taken on a dialog.

• void dismiss():

This is equivalent to clicking on the CANCEL action button.

• java.lang.String getText():

This will return the text that appears on the dialog. This can be used if you want to evaluate the text on the modal dialog.

void sendKeys(java.lang.String keysToSend):

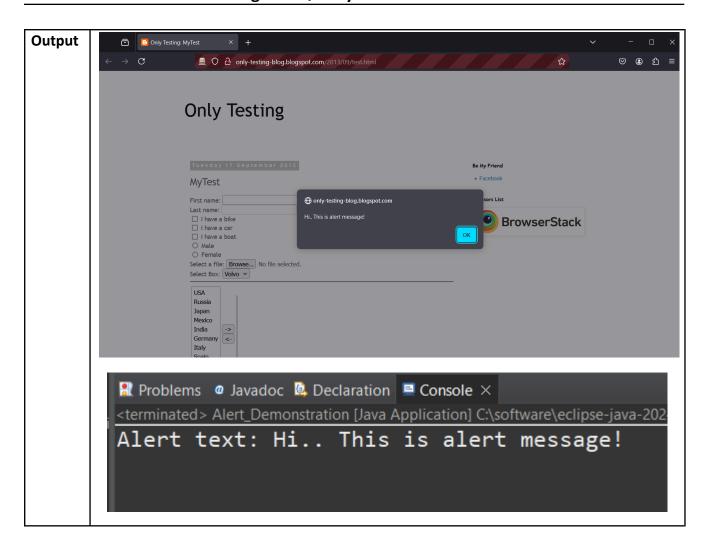
This will allow the developer to type in some text into the alert if the alert has some provision for it.

Implementation

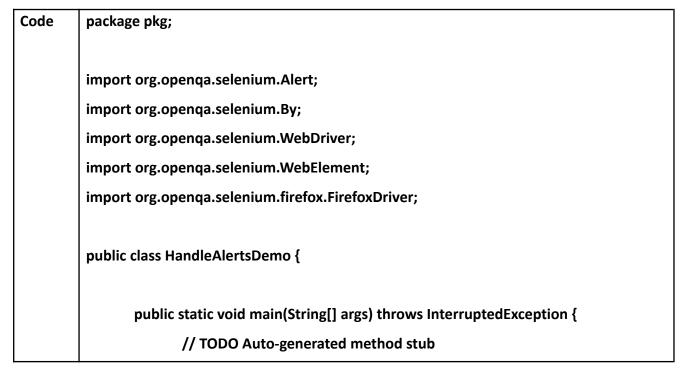
1. Write a selenium script to handle alert on http://only-testing-blog.blogspot.com/2013/09/test.html

```
Code
         package pkg;
         import org.openqa.selenium.Alert;
         import org.openqa.selenium.By;
         import org.openqa.selenium.WebDriver;
         import org.openqa.selenium.WebElement;
         import org.openqa.selenium.firefox.FirefoxDriver;
         public class Alert_Demonstration {
                    public static void main(String[] args) throws InterruptedException {
         System.setProperty("webdriver.gecko.driver","G:\\Selenium_setup\\geckodriver.exe")
                       // Web driver for FireFox
                       WebDriver driver = new FirefoxDriver();
                       // open web page
                       driver.get("http://only-testing-blog.blogspot.com/2013/09/test.html");
                       // Click the button to trigger the alert
                WebElement btnAlert1 = driver.findElement(By.cssSelector("input[value =
         'Show Me Alert']"));
                // Click on Alert 1
                btnAlert1.click();
```

```
// Switch to the alert
Alert alert = driver.switchTo().alert();
// Wait
Thread.sleep(5000);
// Get and print the alert text
System.out.println("Alert text: " + alert.getText());
// Accept the alert (click OK)
alert.accept();
// Wait
Thread.sleep(5000);
// Close the browser
driver.quit();
}
```



2. Write a selenium script to handle alerts on https://demoga.com/alerts

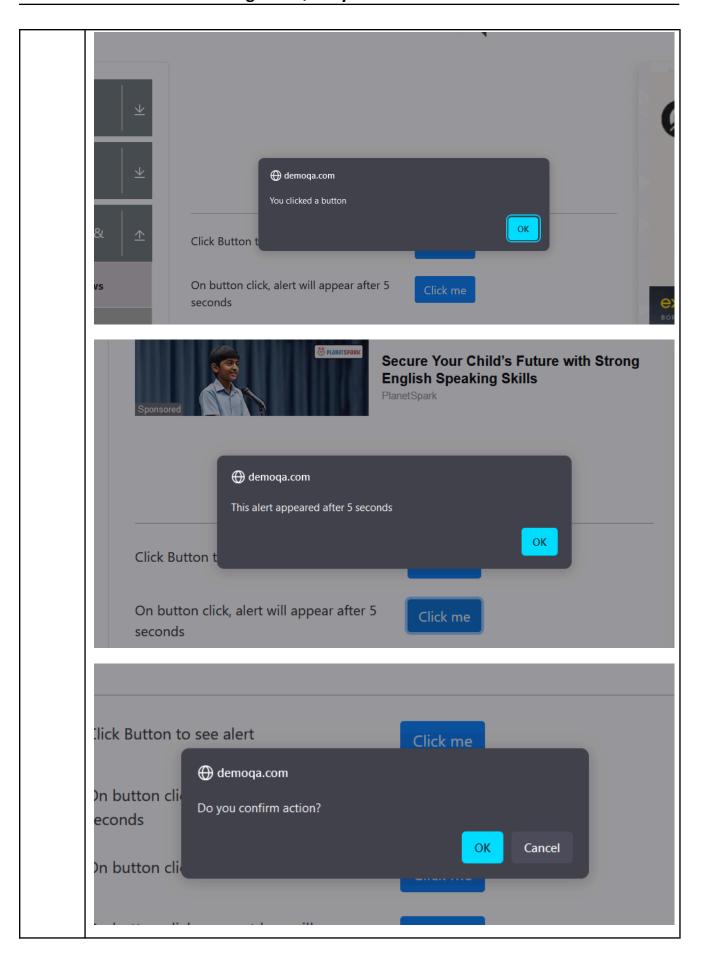


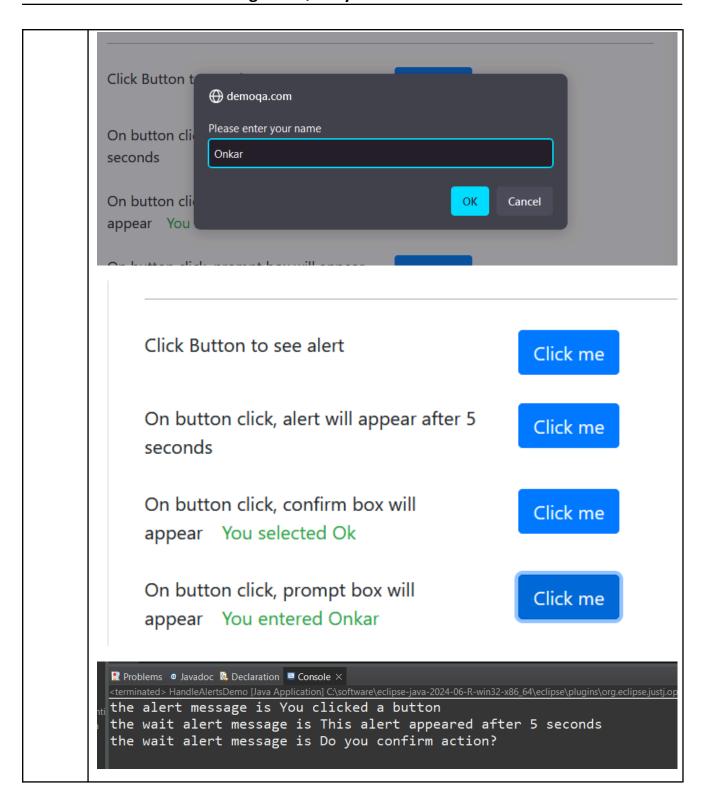
```
System.setProperty("webdriver.gecko.driver","G:\\Selenium_setup\\geckodriver.exe")
              // Web driver for FireFox
              WebDriver driver = new FirefoxDriver();
              driver.get("https://demoqa.com/alerts");
              WebElement btn = driver.findElement(By.id("alertButton")); btn.click();
              Thread.sleep(5000);
              Alert simple_alert = driver.switchTo().alert();
              System.out.println("the alert message is "+ simple_alert.getText());
              simple_alert.accept();
              Thread.sleep(5000);
              WebElement btn2 = driver.findElement(By.id("timerAlertButton"));
              btn2.click();
              Thread.sleep(5000);
              Alert wait_alert = driver.switchTo().alert();
              System.out.println("the wait alert message is "+ wait_alert.getText());
              Thread.sleep(5000);
              wait_alert.accept();
              WebElement btn3 = driver.findElement(By.id("confirmButton"));
              btn3.click();
              Thread.sleep(5000);
              Alert confirm alert = driver.switchTo().alert();
```

```
"+
                              System.out.println("the
                                                                   wait
                                                                                alert
                                                                                            message
                                                                                                              is
            confirm_alert.getText());
                              Thread.sleep(5000);
                              confirm_alert.accept();
                              WebElement promtBtn = driver.findElement(By.id("promtButton"));
                              promtBtn.click();
                              Alert promptAlert = driver.switchTo().alert();
                              promptAlert.sendKeys("Onkar");
                              Thread.sleep(5000);
                              promptAlert.accept();
                              Thread.sleep(5000);
                     }
            }
Output
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                  ፱ Frames
                                          On button click, prompt box will appear
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                  ☑ Nested Frames
                  ፱ Modal Dialogs
```





3. Write a selenium script to handle alert on http://demo.guru99.com/test/simple_context_menu.html

Code	package pkg;	
	import org.openqa.selenium.By;	
	import org.openqa.selenium.WebDriver;	

```
import org.openqa.selenium.WebElement;
                                  import org.openqa.selenium.firefox.FirefoxDriver;
                                  import org.openqa.selenium.interactions.Actions;
                                  public class AlertsSimpleContextDisplay {
                                                           public static void main(String[] args) {
                                                                                   // TODO Auto-generated method stub
                                  System.setProperty("webdriver.gecko.driver", "G:\\Selenium_setup\\geckodriver.exe")
                                                                                   // Web driver for FireFox
                                                                                   WebDriver driver = new FirefoxDriver();
                                                                                   //locate web page
                                                           driver.get("https://demo.guru99.com/test/simple_context_menu.html");
                                                                                   //double click me too see alert
                                                                                    WebElement doubleClick =
                                  driver.findElement(By.xpath("//button[@ondblclick='myFunction()']"));
                                                                                    Actions dClick = new Actions(driver);
                                                                                    dClick.doubleClick(doubleClick).perform();
                                                          }
Output

△ https://demo.guru99.com/test/simple_context_menu.html

// demo.guru99.com/test/simple_context_menu.html

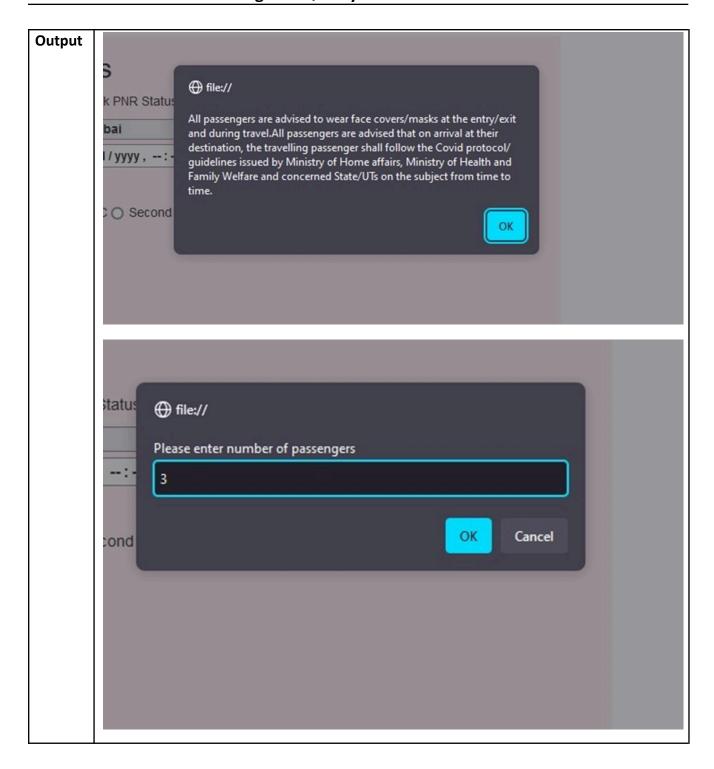
// demo.guru99.com/test/simple_con
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                                                                                                                Demo
                                                                                                                Site
                                           right click me
                                         Double-Click Me To See Alert
```

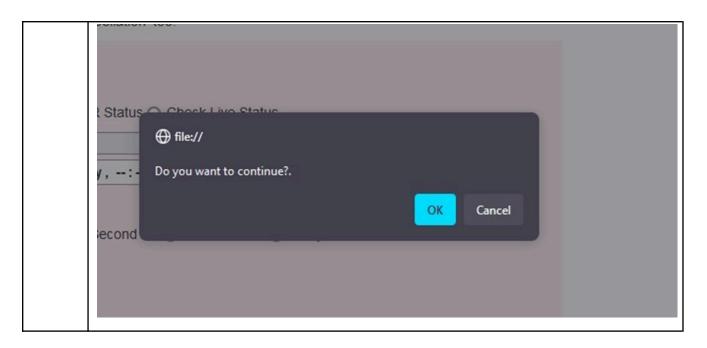
4. Open "train_reservation.html" page and handle the alerts on that page.

```
Code
         package pkg;
         import org.openqa.selenium.Alert;
         import org.openqa.selenium.By;
         import org.openqa.selenium.WebDriver;
         import org.openqa.selenium.WebElement;
         import org.openqa.selenium.firefox.FirefoxDriver;
         public class trainReservationAlert {
                public static void main(String[] args) throws InterruptedException {
                       // TODO Auto-generated method stub
         System.setProperty("webdriver.gecko.driver","G:\\Selenium_setup\\geckodriver.exe")
                       // Web driver for FireFox
                       WebDriver driver = new FirefoxDriver();
                       //locate web page
                       driver.get("file:///G:/Flight_Reservation/train_reservation.html");
                       //locate trains hyperlink
                       WebElement trains_link = driver.findElement(By.linkText("Trains"));
                       //click on trains link
                       trains_link.click();
                       //Alert window opens
```

```
//switch from main window to alert window
              Alert simpleAlert = driver.switchTo().alert(); // simpleAlert
             //print alert text
              System.out.println("The Text inside alert window
                                                                             is:
"+simpleAlert.getText());
             //perform action on clicking on simple alert
              Thread.sleep(2000);
              simpleAlert.accept();
              Thread.sleep(5000);
              //locate confirm details button
              WebElement
                                                 confirmBtn
driver.findElement(By.cssSelector("input[value='Confirm Details']"));
              confirmBtn.click();
             //Alert window opens
             //switch from main window to alert window
              Alert promt Alert = driver.switchTo().alert();
             //enter input
              promt_Alert.sendKeys("3");
              Thread.sleep(2000);
              promt_Alert.accept();
              Thread.sleep(5000);
              WebElement book_Ticket
```

```
driver.findElement(By.cssSelector("input[value='Book Tickets']"));
              book_Ticket.click();
              //Alert window opens
              //switch from main window to alert window
              Alert Confimation_alert = driver.switchTo().alert();
              //text retrieve from confirmation Text
              System.out.println("The
                                                              inside
                                                                              window:
                                                Text
"+Confimation_alert.getText());
              Thread.sleep(2000);
              Confimation_alert.accept();
              Thread.sleep(5000);
              WebElement
                                              book ticket cancel
driver.findElement(By.cssSelector("input[value='Book Tickets']"));
              book_ticket_cancel.click();
              Alert decline_alert = driver.switchTo().alert();
              Thread.sleep(2000);
              decline_alert.dismiss();
       }
}
```





Conclusion: Learnt to handle all types of alerts in Selenium

After performing this Practical/lab, students are expected to answer following questions

- Q.1 What are different types of alert()?
- Q.2 Which method is used to cancel or close alert window?