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:
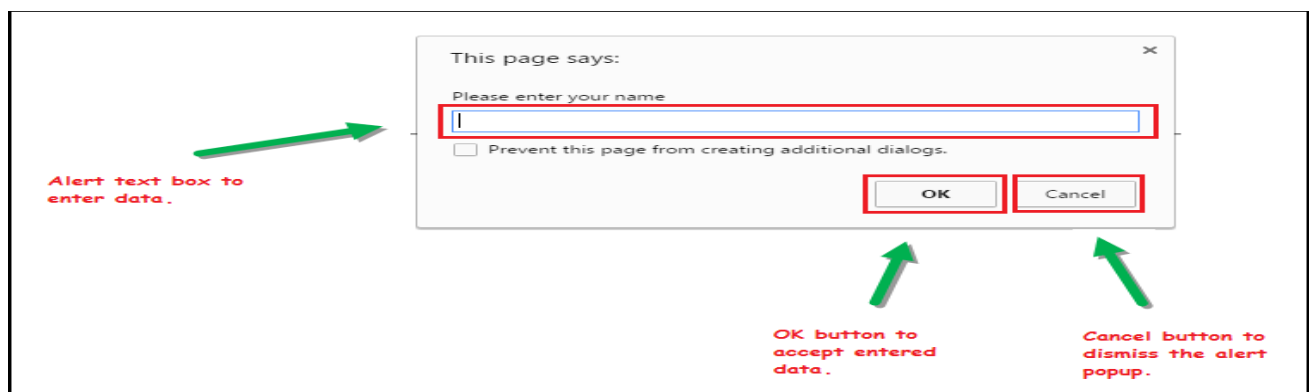
Simple Alert

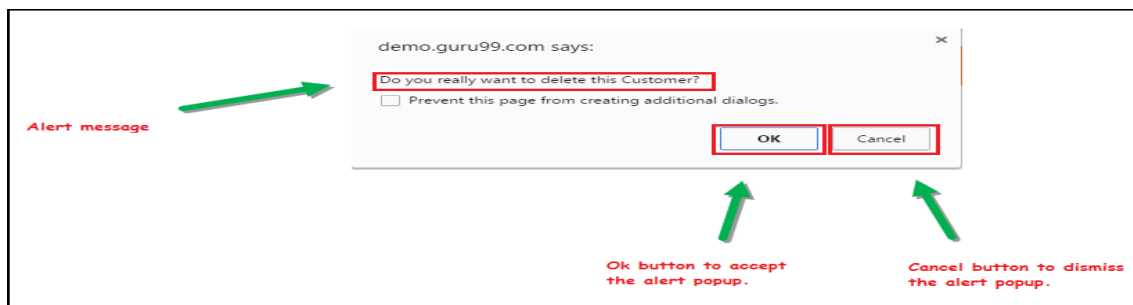The simple alert class in Selenium displays some information or warning on the screen.
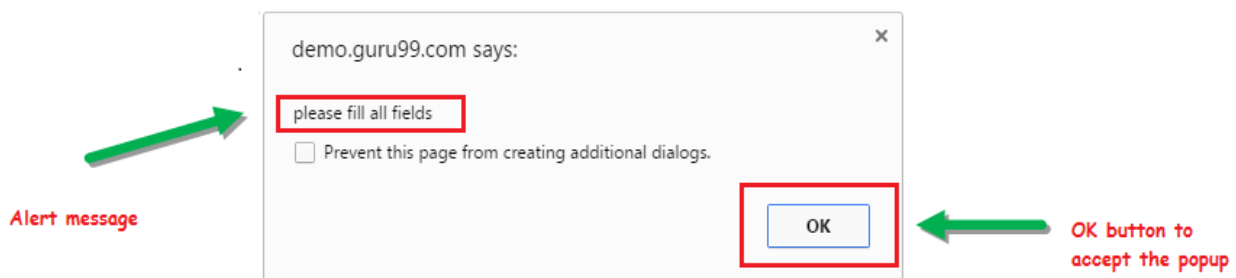
Prompt Alert.

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 <u>http://only-testing-blog.blogspot.com/2013/09/test.html</u>**

    Program:

```
package SeleniumScript;
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 q1_6 {
    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.gecko.driver","E:\\Selenium\\geckodriver.exe");
        WebDriver driver = new FirefoxDriver();
        driver.get("https://only-testing-blog.blogspot.com/2013/09/test.html");

        WebElement confirmBtn=driver.findElement(By.cssSelector("button[onclick='myFunction()']"));
        confirmBtn.click();
        Thread.sleep(2000);

        Alert confirmAlert=driver.switchTo().alert();
        confirmAlert.dismiss();

        Thread.sleep(2000);
        WebElement simpleAlertBtn=driver.findElement(By.cssSelector("input[value='Show Me Alert']"));
        simpleAlertBtn.click();

        Thread.sleep(2000);
        Alert simpleAlert=driver.switchTo().alert();
        simpleAlert.accept();
    }
}
```
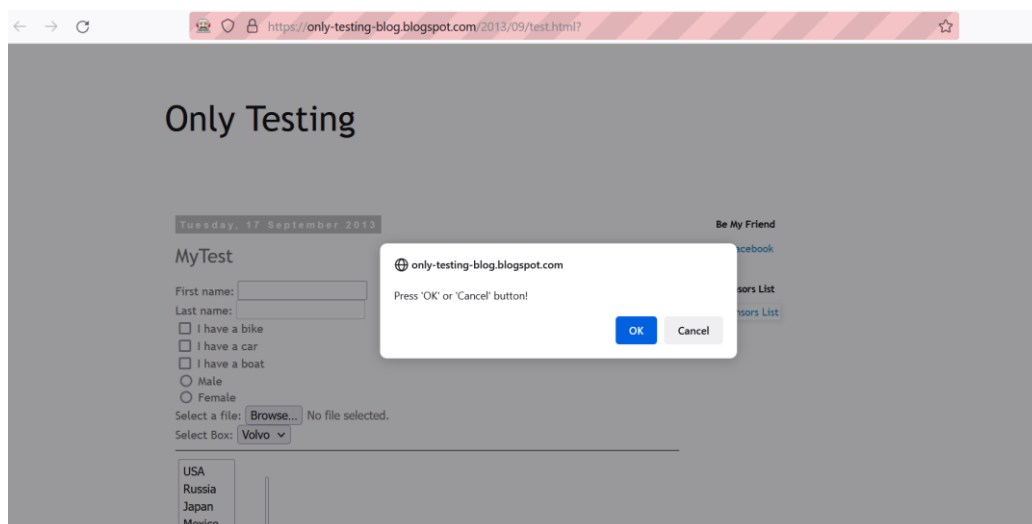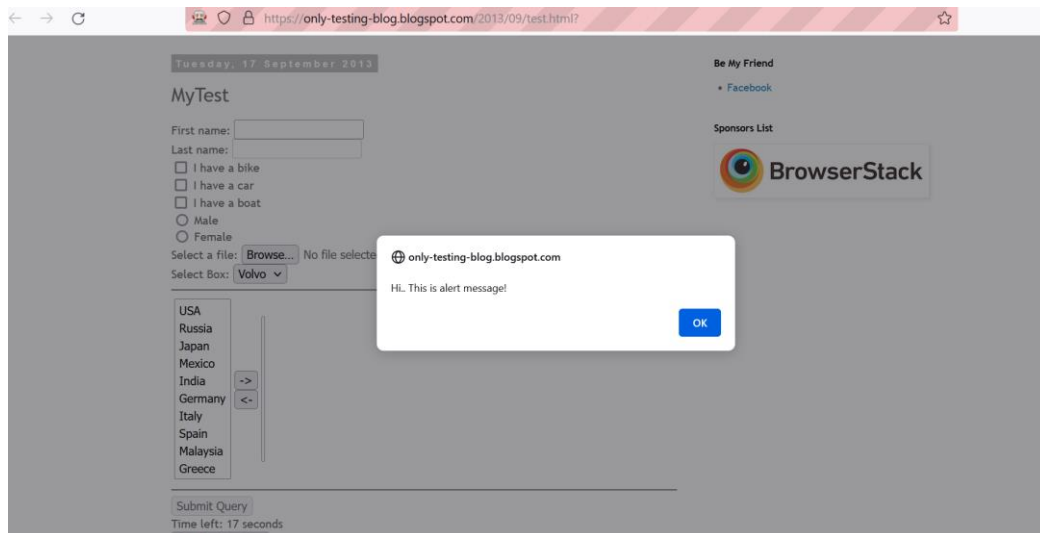
    Output:

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

Program:
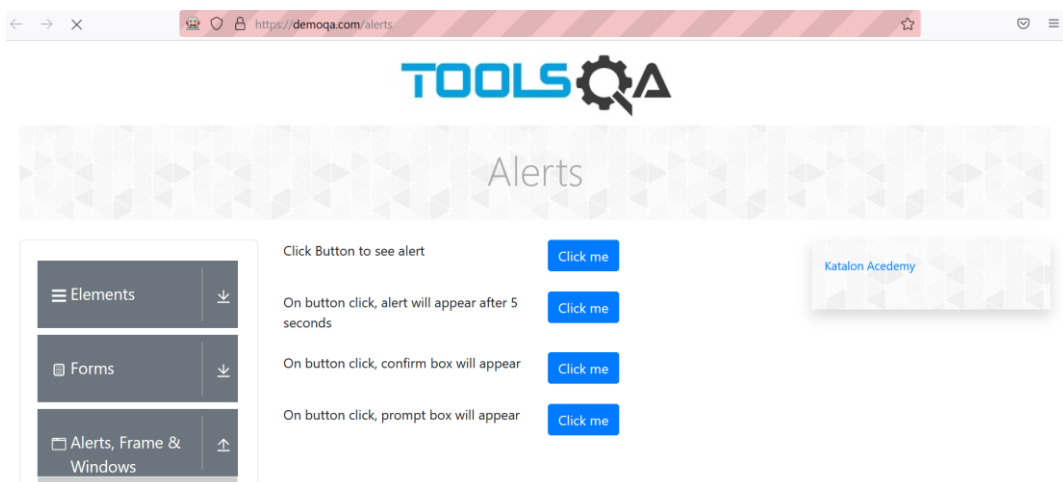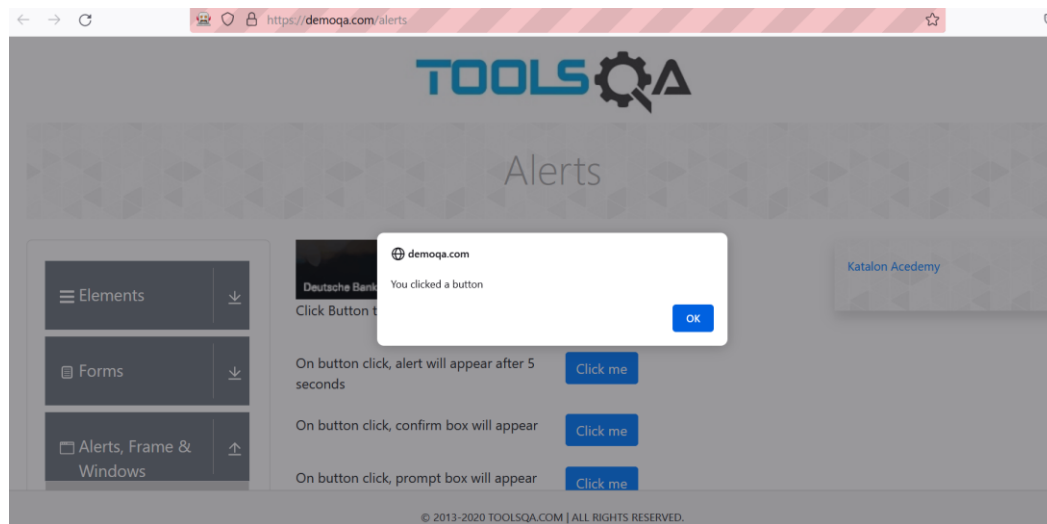
```java
package SeleniumScript;

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 q2_6 {
    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.gecko.driver","E:\\Selenium\\geckodriver.exe");
        WebDriver driver = new FirefoxDriver();
        driver.get("https://demoqa.com/alerts");

        WebElement simpleAlertBtn=driver.findElement(By.id("alertButton"));
        simpleAlertBtn.click();
        Thread.sleep(2000);
        Alert simpleAlert=driver.switchTo().alert();
        simpleAlert.accept();
        Thread.sleep(2000);

        WebElement promptAlertBtn=driver.findElement(By.id("promptButton"));
        promptAlertBtn.click();
        Alert promptAlert=driver.switchTo().alert();
        promptAlert.sendKeys("Apurva");
        Thread.sleep(1000);
        promptAlert.accept();
        }
}
```

Output:

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

Program:

```
package SeleniumScript;
import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
public class q3_6 {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.gecko.driver","E:\\Selenium\\geckodriver.exe");
        WebDriver driver = new FirefoxDriver();
        driver.get("http://demo.guru99.com/test/simple_context_menu.html\r\n");

        List<WebElement> list=driver.findElements(By.tagName("input"));
        list.get(1).sendKeys("abcd@gmail.com");
        list.get(2).sendKeys("abcd@gmail.com");
        }
    }
```

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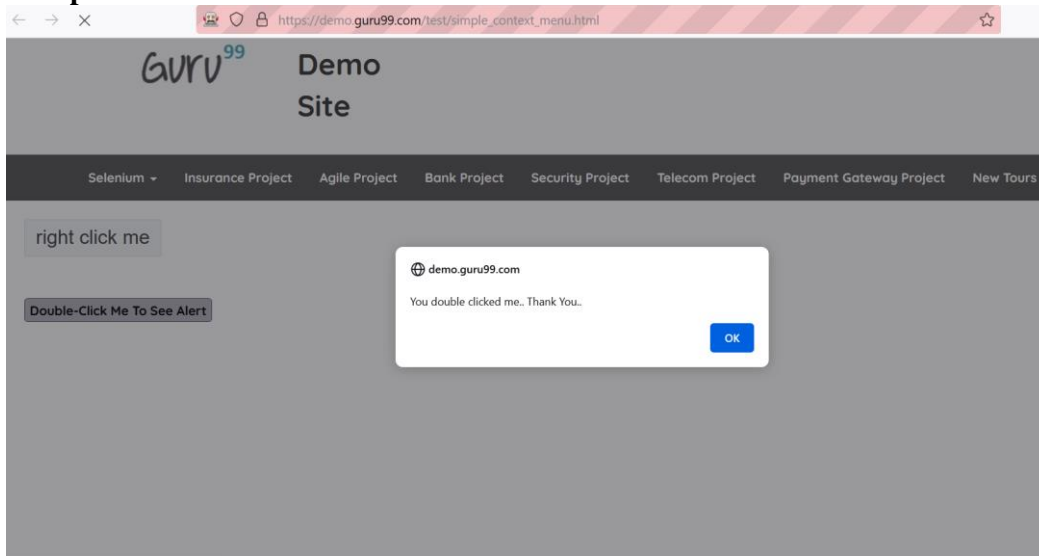
4. **Open "train_reservation.html" page and handle the alerts on that page.**

   Program:

```
package SeleniumScript;
import org.openqa.selenium.Alert;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class alertdemo {
        public static void main(String[] args) throws InterruptedException {
                // TODO Auto-generated method stub
                System.setProperty("webdriver.chrome.driver", "E:\\Selenium\\chromedriver.exe");
                WebDriver driver=new ChromeDriver();
                driver.get("file:///E:/samplefiles/train_reservation.html");

                //handling simple alert
                WebElement trains_link = driver.findElement(By.linkText("Trains"));
                trains_link.click();

                Alert simpleAlert = driver.switchTo().alert();
                Thread.sleep(5000);

                String alertMessage1=simpleAlert.getText();
                System.out.println("Alert msg is "+alertMessage1);

                simpleAlert.accept();
                Thread.sleep(5000);


                //handling prompt alert
                WebElement  confirm_btn= driver.findElement(By.cssSelector("input[value='Confirm
        Details']"));
                confirm_btn.click();

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

```
promptAlert.sendKeys("5");
Thread.sleep(5000);
promptAlert.accept();
Thread.sleep(5000);


//handling confirmation alert
WebElement   book_btn   =   driver.findElement(By.cssSelector("input[value='Book
Tickets']"));

book_btn.click();

Alert confirmAlert=driver.switchTo().alert();
String alertMessage2 = confirmAlert.getText();
System.out.println("Alert message is "+alertMessage2);
Thread.sleep(3000);
confirmAlert.dismiss();
       }
   }
```
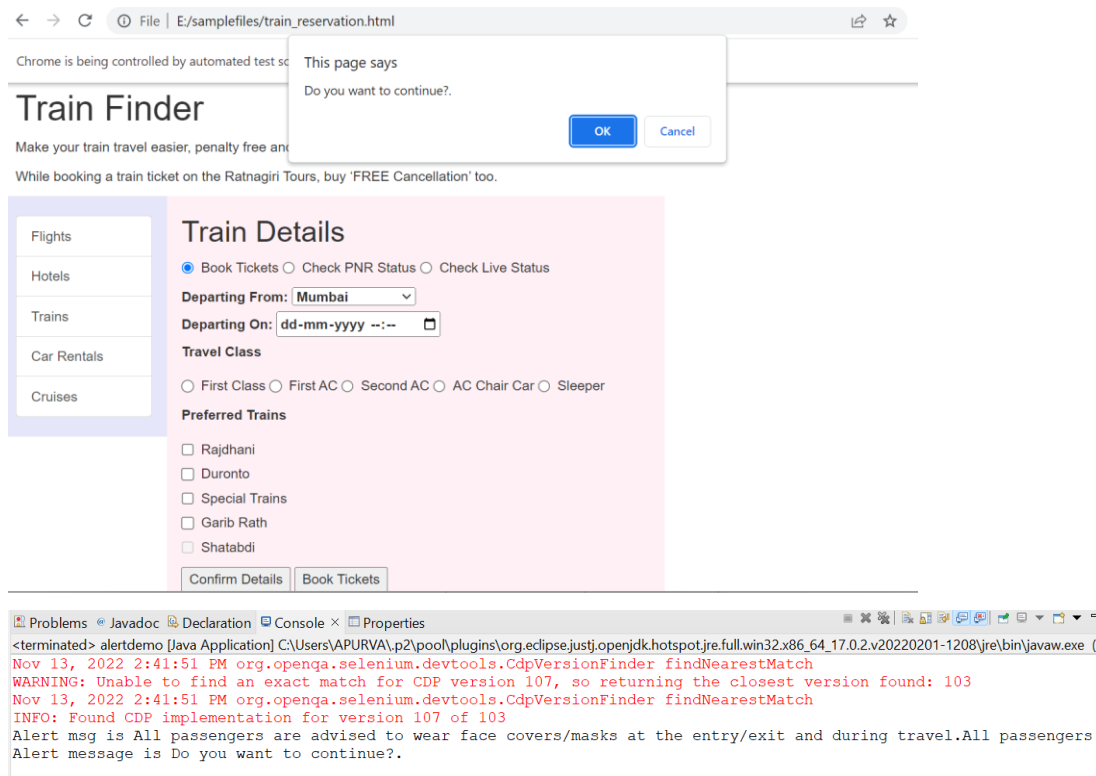
Output:
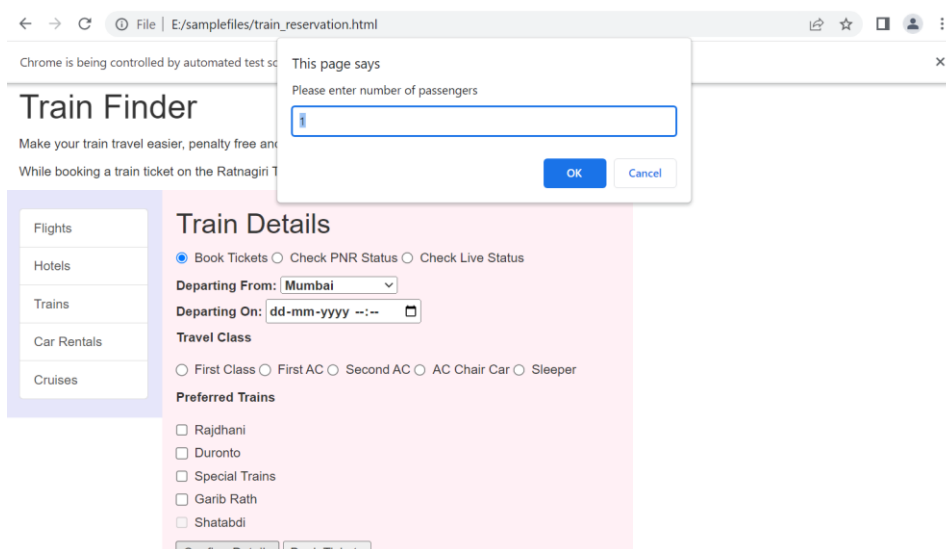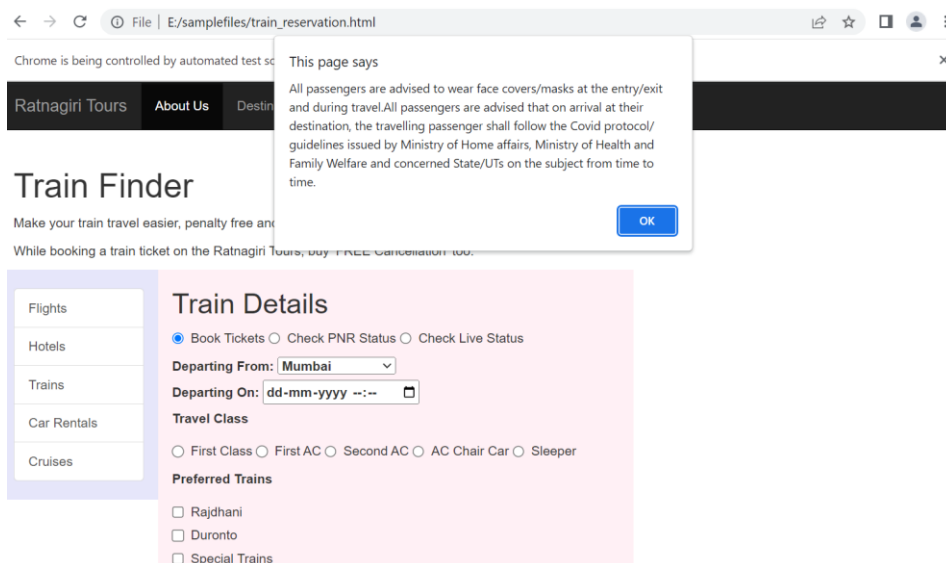
Conclusion: Learnt to handle all types of alerts in Selenium