

Mini Project Case Study

JavaScript Executor Usage

Problem statement: Automate the scenario using JavaScript executor.

Register the user to the website using JavaScript executor.

Detailed Description:

Launch the browser.

Open the url.

Generate alert "hello world" by clicking on "Basic Alert".

Close the alert.

Navigate to different webpage: <https://stqatools.com/demo/>

Fill the name as "Amol"

Fill the personal address as "Mumbai"

Select proper gender.

Select your hobby.

Select any city.

Select any country.

Select your date of birth.

Scroll the page to the bottom.

Click on "submit"

Verify submission is successful or not.

Close the browser.

Program:

```
package SeleniumPractice;  
  
import java.util.List;  
  
import java.util.concurrent.TimeUnit;  
  
import org.openqa.selenium.Alert;  
  
import org.openqa.selenium.By;  
  
import org.openqa.selenium.JavascriptExecutor;  
  
import org.openqa.selenium.WebDriver;
```

```
import org.openqa.selenium.WebElement;

import org.openqa.selenium.edge.EdgeDriver;

import org.openqa.selenium.interactions.Actions;

import org.openqa.selenium.support.ui.Select;


public class Miniproject {


    public static void main(String[] args) throws InterruptedException {

        // TODO Auto-generated method stub

        System.setProperty("webdriver.edge.driver","C:\\Users\\2317693\\eclipse-
workspace\\CSDQEA24SD002\\Browser\\msedgedriver.exe");

        WebDriver driver=new EdgeDriver();

        driver.manage().window().maximize();

        driver.get("https://www.stqatools.com/demo/Alerts.php");

        System.out.println("Current URL: " + driver.getCurrentUrl());

        driver.manage().timeouts().implicitlyWait(10,TimeUnit.SECONDS);


        //generate alert "hello world" by clicking on "basic alert"

        Thread.sleep(3000);

        WebElement btn=driver.findElement(By.id("btnAlert"));

        btn.click();

        Thread.sleep(3000);


        WebElement btnClse=driver.findElement(By.xpath("//*[@id='ezAlerts-footer']/button"));

        btnClse.click();


        //Navigate to diff webpage

        Thread.sleep(5000);

        driver.navigate().to("https://stqatools.com/demo/Register.php");


        //Title of the page

        System.out.println("Title of the Webpage:" + driver.getTitle());

        System.out.println("After navigation Current URL is: " + driver.getCurrentUrl());
```

```
//Name Of the person
Thread.sleep(3000);

WebElement name = driver.findElement(By.name("name"));
name.sendKeys("Amol");

System.out.println("Name:"+name.getAttribute("value"));


//Address of the person
Thread.sleep(2000);

WebElement address = driver.findElement(By.name("address"));
address.sendKeys("Mumbai");

System.out.println("Address:"+name.getAttribute("value"));


//Gender
WebElement male_rd = driver.findElement(By.xpath("//input[@id='male']"));

System.out.println("Gender: male");

male_rd.click();

System.out.println(male_rd.isSelected()); //true


//run the js code
Thread.sleep(2000);

JavascriptExecutor jse = (JavascriptExecutor) driver;
jse.executeScript("window.scrollTo(0,400)");


//hobby
Thread.sleep(2000);

WebElement checkbox = driver.findElement(By.xpath("//label[normalize-space()='Traveling']"));
checkbox.click();

System.out.println(checkbox.getText());


//country
Thread.sleep(2000);

WebElement drpCountryEle=driver.findElement(By.xpath("//select[@id='country']"));
```

```
Select drpCountry=new Select(drpCountryEle);
drpCountry.selectByVisibleText("India");
WebElement selectedOption = drpCountry.getFirstSelectedOption();
System.out.println("Selected Country: " + selectedOption.getText());

//city
Thread.sleep(2000);
WebElement drpCityEle=driver.findElement(By.xpath("//select[@id='city']"));
Select drpCity=new Select(drpCityEle);
drpCity.selectByVisibleText("Mumbai");
WebElement selectedOption2 = drpCity.getFirstSelectedOption();
System.out.println("Selected City: " + selectedOption2.getText());

//date
Thread.sleep(2000);
WebElement dob = driver.findElement(By.xpath("//input[@id='dob']"));
dob.sendKeys("08/14/2001");

// Get the entered date and print it
String enteredDate = dob.getAttribute("value");
System.out.println("Entered Date: " + enteredDate);

WebElement button = driver.findElement(By.xpath("//button[normalize-space()='Submit']"));
button.click();

driver.quit();

}

}
```

```
eclipse-workspace - CSDQEA24SD002/src/SeleniumPractice/Miniproject.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer
  csd24sd1234-springdata
  CSDQEA24SD002
    src
      SeleniumPractice
        browser.java
        CheckBox.java
        Ex2_NavWebSite.java
        Ex3_form.java
        Ex3_Uselist.java
        FirstEx.java
        Miniproject.java
        practice.java
        RadioButton.java
        TextBox.java
      JRE System Library [JavaSE-1.8]
      Referenced Libraries
      Browser
      handson9
      Mayuri
        src/main/java
        (default package)
        Project.java
        src/main/resources
        src/test/java
        src/test/resources
      JRE System Library [J2SE-1.5]
      Maven Dependencies
      src
      target
      pom.xml
      mvnlearn

Miniproject.java
1 package SeleniumPractice;
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3 import java.util.List;
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14
15 public class Miniproject {
16
17     // TODO Auto-generated method stub
18     public static void main(String[] args) throws InterruptedException {
19         // TODO Auto-generated method stub
20         WebDriver driver = new EdgeDriver();
21         driver.manage().window().maximize();
22         driver.get("https://www.stgatoools.com/demo/Alerts.php");
23         System.out.println("Current URL: " + driver.getCurrentUrl());
24         driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
25
26         //generate alert "hello world" by clicking on "basic alert"
27         Thread.sleep(3000);
28         WebElement btn = driver.findElement(By.id("btnAlert"));
29         btn.click();
30         Thread.sleep(3000);
31
32         WebElement btnClose = driver.findElement(By.xpath("//*[@id='ezAlerts-footer']/button"));
33         btnClose.click();
34
35         //Navigate to diff webpage
36         Thread.sleep(5000);
37         driver.navigate().to("https://stgatoools.com/demo/Register.php");
38
39         //Title of the page
40         System.out.println("Title of the Webpage: " + driver.getTitle());
41         System.out.println("After navigation Current URL is: " + driver.getCurrentUrl());
42
43         //Name Of the person
44         Thread.sleep(3000);
45         WebElement name = driver.findElement(By.name("name"));
46         name.sendKeys("Amol");
47         System.out.println("Name: " + name.getAttribute("value"));
48
49         //Address of the person
50         Thread.sleep(2000);
51         WebElement address = driver.findElement(By.name("address"));
52         address.sendKeys("Mumbai");
53         System.out.println("Address: " + name.getAttribute("value"));
54
55         //Gender
56         WebElement male_rd = driver.findElement(By.xpath("//*[@input[@id='male']]"));
57         System.out.println("Gender: male");
58         male_rd.click();
59         System.out.println(male_rd.isSelected());
60
61         //run the js code
62         Thread.sleep(2000);
63         JavascriptExecutor jse = (JavascriptExecutor) driver;
64         jse.executeScript("window.scrollTo(0,400)");
65
66         //hobby
67         Thread.sleep(2000);
68         WebElement checkbox = driver.findElement(By.xpath("//*[@label[normalize-space()='Traveling']]"));
69         checkbox.click();
70         System.out.println(checkbox.getText());
71
72         //country
73         Thread.sleep(2000);
74         WebElement drpCountryEle = driver.findElement(By.xpath("//*[@select[@id='country']]"));
75         Select drpCountry = new Select(drpCountryEle);
76         drpCountry.selectByVisibleText("India");
77         WebElement selectedOption = drpCountry.getFirstSelectedOption();
78         System.out.println("Selected Country: " + selectedOption.getText());
79
80         //city
81         Thread.sleep(2000);
82         WebElement drpCityEle = driver.findElement(By.xpath("//*[@select[@id='city']]"));
83         Select drpCity = new Select(drpCityEle);
84         drpCity.selectByVisibleText("Mumbai");
85
86         //city
87         Thread.sleep(2000);
88         WebElement drpCityEle2 = driver.findElement(By.xpath("//*[@select[@id='city']]"));
89         Select drpCity2 = new Select(drpCityEle2);
90         drpCity2.selectByVisibleText("Mumbai");
91         WebElement selectedOption2 = drpCity2.getFirstSelectedOption();
92         System.out.println("Selected City: " + selectedOption2.getText());
93
94         //date
95         Thread.sleep(2000);
96         WebElement dob = driver.findElement(By.xpath("//*[@input[@id='dob']]"));
97         dob.sendKeys("08/14/2001");
98
99         // Get the entered date and print it
100         String enteredDate = dob.getAttribute("value");
101         System.out.println("Entered Date: " + enteredDate);
102
103         //button
104         WebElement button = driver.findElement(By.xpath("//*[@button[normalize-space()='Submit']]"));
105         button.click();
106         driver.quit();
107     }
108 }
```

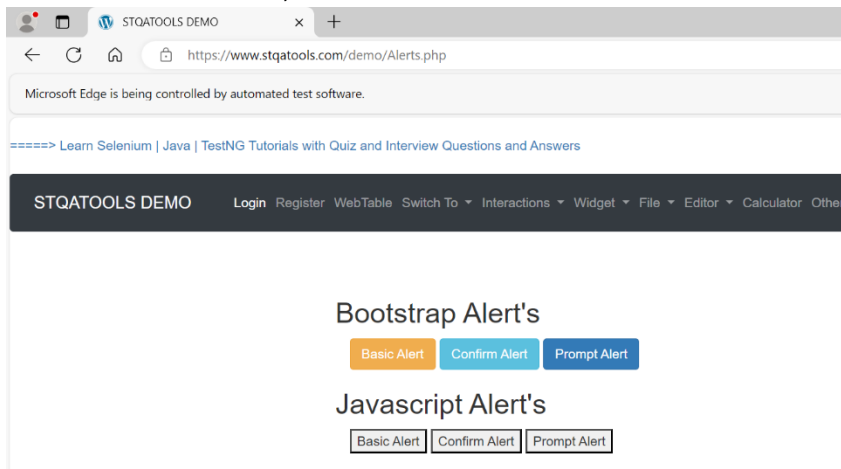
```
eclipse-workspace - CSDQEA24SD002/src/SeleniumPractice/Miniproject.java - Eclipse IDE
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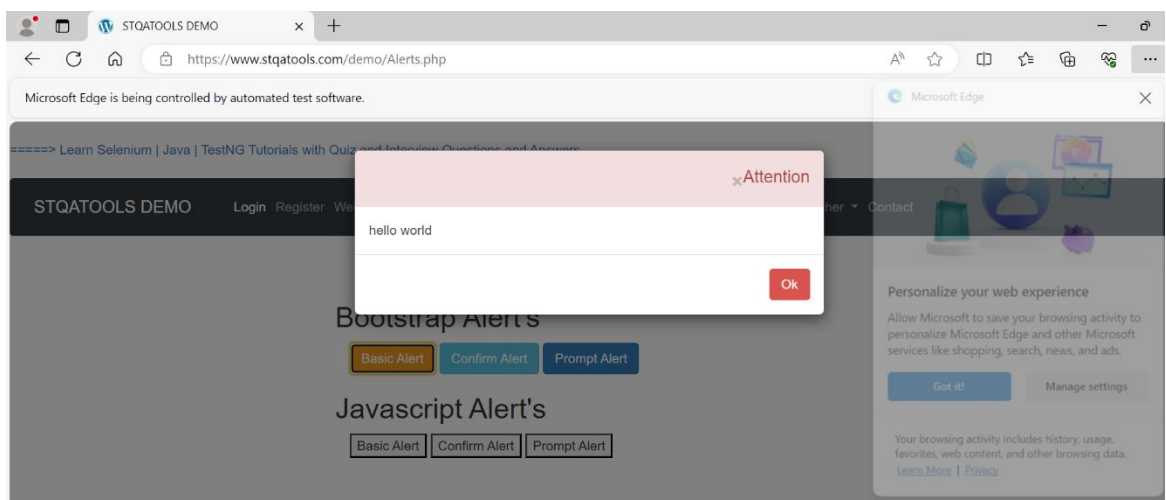
Miniproject.java
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Output :

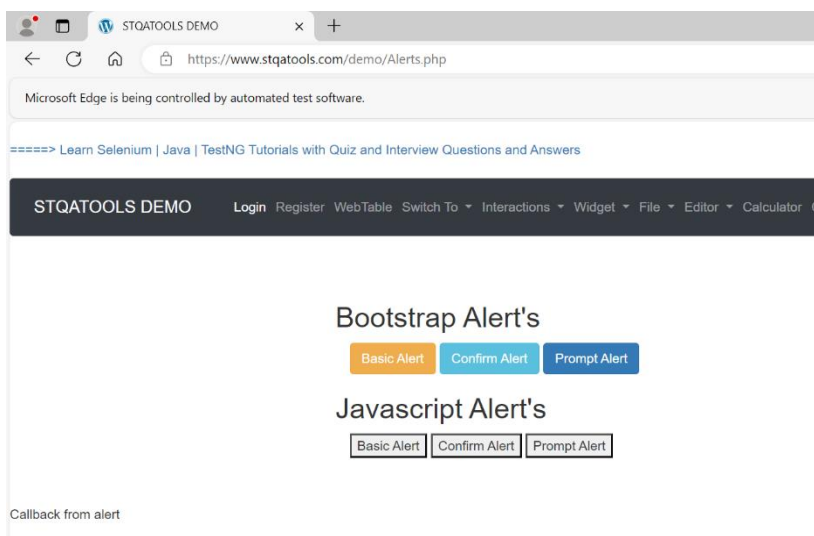
1. Here is the pic of console.
2. First the url is launched, and basic alert is clicked > alert visible > clicked on alert.



3. Alert box is opened.



4. Alert box is closed.



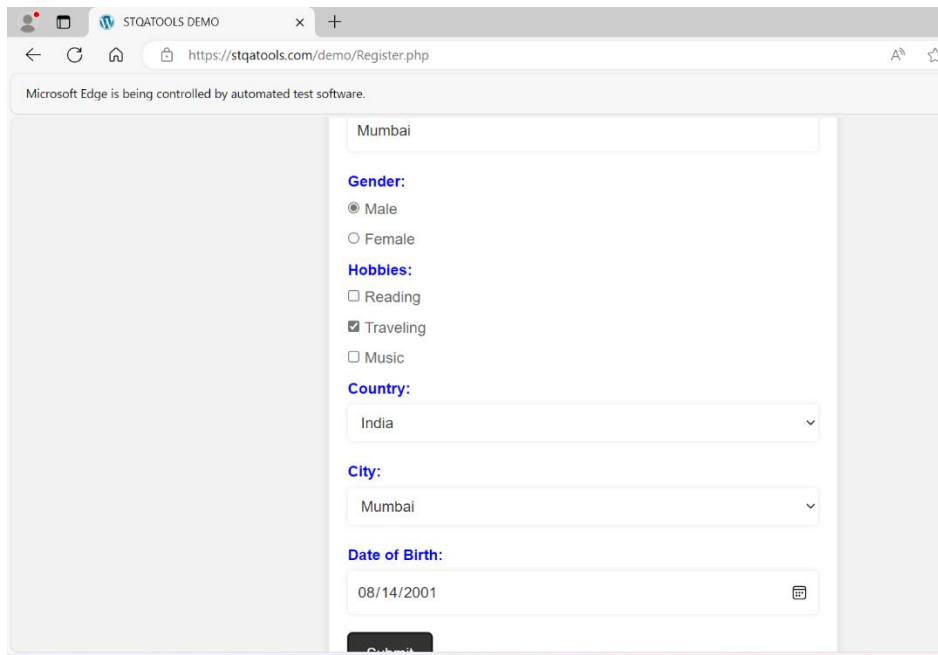
5. Navigate to another website that is registration form.

The screenshot shows a web browser window with the address bar displaying 'https://stqatools.com/demo/Register.php'. The page title is 'STQATOOLS DEMO'. Below the title, there is a navigation bar with links: 'Login', 'Register', 'WebTable', 'Switch To', 'Interactions', 'Widget', 'File', 'Editor', and 'Calculator'. The main content area is titled 'Registration Form'. It contains four sections: 'Name:' with a text input field containing 'Enter your name'; 'Address:' with a text input field containing 'Enter your address'; 'Gender:' with two radio buttons, 'Male' and 'Female'; and 'Hobbies:' with a checkbox labeled 'Reading'.

6. Form is filled out.

The screenshot shows the same web browser window as before, but the registration form is now filled out. The 'Name:' field contains 'Amol', the 'Address:' field contains 'Mumbai', the 'Gender:' field has the 'Male' radio button selected, and the 'Hobbies:' field has the 'Reading' checkbox checked.

7. The page is scrolled down the page and filled the remaining fields.



8. All the tags are print in the console. Here is the image of it.

```
eclipse-workspace - CSDQEA24SD002/src/SeleniumPractice/Miniproject.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Console x
[terminated] Miniproject [Java Application] C:\Users\2317693\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.10.v20240120-1143\jre\bin\javaw.exe (Apr
Starting Microsoft Edge WebDriver 122.0.2365.92 (908657ec17be9ad27101d76cdae7448c824b705c) on port 16423
To submit feedback, report a bug, or suggest new features, please visit https://github.com/MicrosoftEdge/EdgeWebDriver

Only local connections are allowed.
Please see https://aka.ms/WebDriverSecurity for suggestions on keeping Microsoft Edge WebDriver safe.

Microsoft Edge WebDriver was started successfully.
[1712641182.524][WARNING]: This version of Microsoft Edge WebDriver has not been tested with Microsoft Edge version 123.
Apr 09, 2024 11:09:42 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Current URL: https://www.stqatools.com/demo/Alerts.php
Title of the Webpage: STQATOOLS DEMO
After navigation Current URL is: https://stqatools.com/demo/Register.php
Name: Amol
Address: Amol
Gender: male
true
Traveling
Selected Country: India
Selected City: Mumbai
Entered Date: 2001-08-14
```

Employee Id- 2317693

Vanshika