

## **Ex.4. - Web Testing using Selenium**

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**Subject:** Software Testing

### **Instructions**

To Perform Web Testing using Selenium and perform following:

1. Searching URL
2. Logout Button
3. The Text Content

**Aim:** Perform Web Testing using Selenium

### **Procedure:**

- a. Open a web browser
- b. Navigate to the specified URL
- c. Search for a specific URL
- d. Locate and click on the Logout button

### **Steps**

1. Create a Project: Selenium\_webtest\_ex4
2. In pom.xml change http to https
3. Add dependency and plugins in pom.xml

```
<project xmlns="https://maven.apache.org/POM/4.0.0"
  xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.herokuapp.the-internet</groupId>
  <artifactId>Selenium_webtest</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>selenium exp3</name>
  <dependencies>
    <dependency>
      <groupId>org.testng</groupId>
      <artifactId>testng</artifactId>
      <version>7.9.0</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>org.seleniumhq.selenium</groupId>
      <artifactId>selenium-java</artifactId>
      <version>4.17.0</version>
    </dependency>
  </dependencies>

  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.12.1</version>
        <configuration>
          <source>21</source>
          <target>21</target>
        </configuration>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-surefire-plugin</artifactId>
        <version>3.2.5</version>
      </plugin>
    </plugins>
  </build>
</project>
```

#### 4. Right click on **src/test/java**

Create new package Name : **com.herokuapp.theinternet**

Now right click on same package **com.herokuapp.theinternet** and create new class.

Enter name : **PositiveTest** The package and class will be created.

#### 5. Add code to **PostiviteTest.java**

```
package com.herokuapp.theinternet;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.Test;
@Test
public class PositiveTest {
    public void loginTest() {
        WebDriver driver=new ChromeDriver();
        String url="https://the-internet.herokuapp.com/login";
        driver.get(url);
        driver.manage().window().maximize();

        sleep(2);

        WebElement
username=driver.findElement(By.xpath("/html//input[@id='username']"));
        username.sendKeys("tomsmith");
        WebElement
password=driver.findElement(By.xpath("/html//input[@id='password']"));
        password.sendKeys("SuperSecretPassword!");
        sleep(2);
        WebElement
loginbtn=driver.findElement(By.xpath("//form[@id='login']/i[@class='fa fa-2x fa-sign-in']"));
        loginbtn.click();

        //Search URL
```

```

String expectedurl="https://the-internet.herokuapp.com/secure";
String actualurl=driver.getCurrentUrl();

Assert.assertEquals(actualurl, expectedurl,"the URL not same as
expected");
System.out.println("The program executed successfully");

//Search for logout
sleep(2);
WebElement
logoutbtn=driver.findElement(By.xpath("//div[@id='content']/a[@href='/logout']/i
[@class='icon-2x icon-signout']"));

Assert.assertTrue(logoutbtn.isDisplayed(),"Logout");

System.out.println("Logout Btn found");

//Search for content on the page does it matches;
String welcomemsg="You logged into a secure area!";
String
actual=driver.findElement(By.xpath("/html//div[@id='flash']")).getText();
Assert.assertTrue(actual.contains(welcomemsg),"Not found");
System.out.println("Welcome message matches");
System.out.print("Test Executed successfully");
driver.close();
}

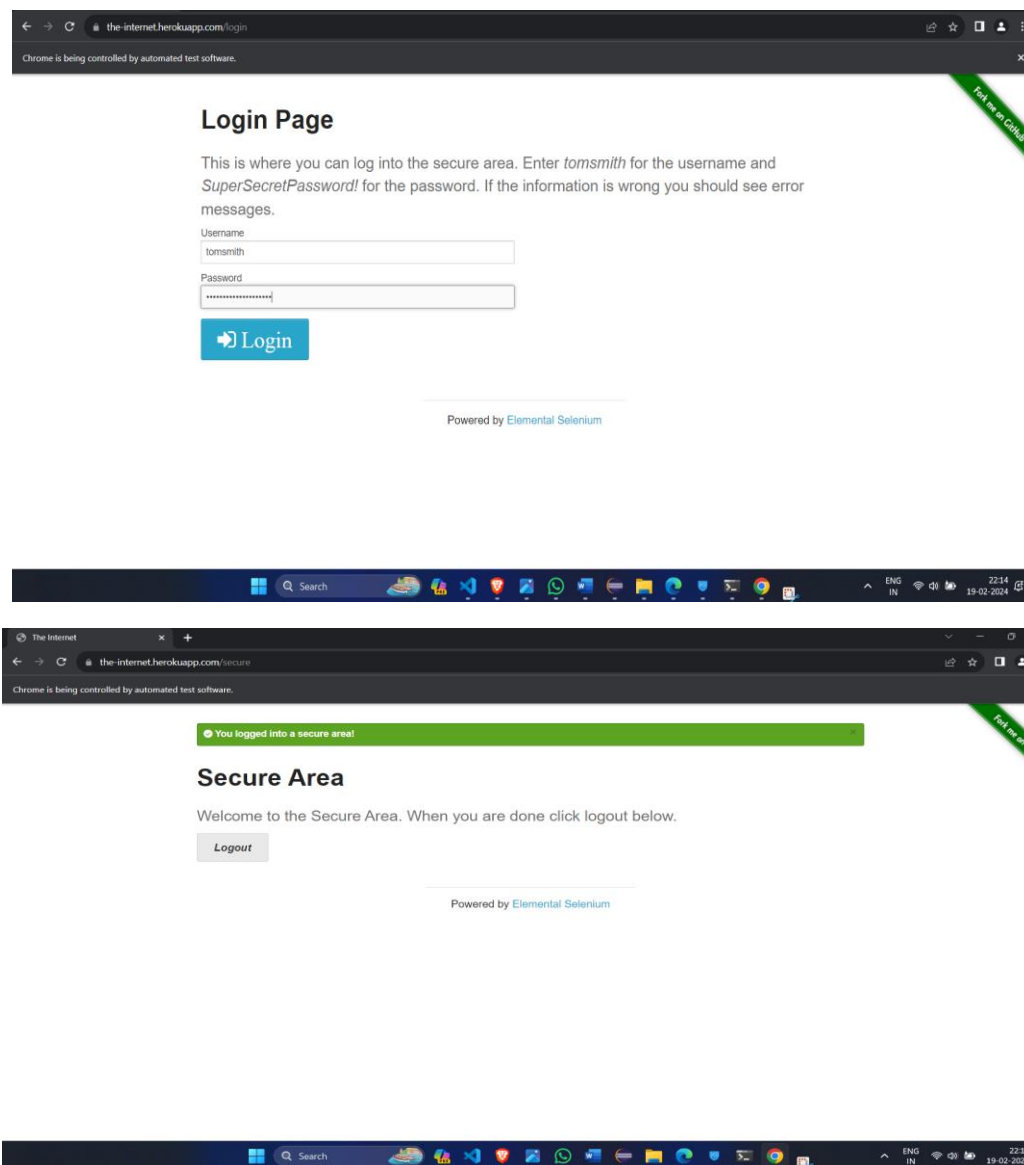
private void sleep(int sec) {
    try {
        Thread.sleep(sec*1000);
    } catch (InterruptedException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}
}

```

## 6. Open cmd and go to file path

```
Microsoft Windows [Version 10.0.22631.3155]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\kingv>cd "C:\Users\kingv\eclipse-workspace\maven\Selenium_webtest_ex4"  
  
C:\Users\kingv\eclipse-workspace\maven\Selenium_webtest_ex4>|
```

## 7. Run Code: **mvn clean test**



```

C:\Users\kingv\eclipse-workspace\maven\Selenium_webtest_ex4>mvn clean test
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.herokuapp.the-internet:Selenium_webtest >-----
[INFO] Building selenium exp3 0.0.1-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- clean:3.2.0:clean (default-clean) @ Selenium_webtest ---
[INFO] Deleting C:\Users\kingv\eclipse-workspace\maven\Selenium_webtest_ex4\target
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ Selenium_webtest ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource from src\main\resources to target\classes
[INFO]
[INFO] --- compiler:3.12.1:compile (default-compile) @ Selenium_webtest ---
[INFO] Nothing to compile - all classes are up to date.
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ Selenium_webtest ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource from src\test\resources to target\test-classes
[INFO]
[INFO] --- compiler:3.12.1:testCompile (default-testCompile) @ Selenium_webtest ---
[INFO] Recompiling the module because of changed source code.
[WARNING] File encoding has not been set, using platform encoding UTF-8, i.e. build is platform dependent!
[INFO] Compiling 1 source file with javac [debug target 21] to target\test-classes
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ Selenium_webtest ---
[INFO] Using auto detected provider org.apache.maven.surefire.testng.TestNGProvider
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.herokuapp.theinternet.PositiveTest

```

```

[INFO] -----
[INFO] Running com.herokuapp.theinternet.PositiveTest
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
The program executed successfully
Logout Btn found
Welcome message matches
Test Executed successfullyFeb 19, 2024 10:14:08 PM org.openqa.selenium.remote.http.WebSocket$Listener onError
WARNING: Connection reset
java.net.SocketException: Connection reset
    at java.base/sun.nio.ch.SocketChannelImpl.throwConnectionReset(SocketChannelImpl.java:401)
    at java.base/sun.nio.ch.SocketChannelImpl.read(SocketChannelImpl.java:434)
    at java.net.http/jdk.internal.net.http.SocketTube.readAvailable(SocketTube.java:1178)
    at java.net.http/jdk.internal.net.http.SocketTube$InternalReadPublisher$InternalReadSubscription.read(SocketTube.java:841)
    at java.net.http/jdk.internal.net.http.SocketTube$SocketFlowTask.run(SocketTube.java:181)
    at java.net.http/jdk.internal.net.http.common.SequentialScheduler$SchedulableTask.run(SequentialScheduler.java:287)
    at java.net.http/jdk.internal.net.http.common.SequentialScheduler.runOrSchedule(SequentialScheduler.java:280)
    at java.net.http/jdk.internal.net.http.common.SequentialScheduler.runOrSchedule(SequentialScheduler.java:233)
    at java.net.http/jdk.internal.net.http.SocketTube$InternalReadPublisher$InternalReadSubscription.signalReadable(SocketTube.java:782)
    at java.net.http/jdk.internal.net.http.SocketTube$InternalReadPublisher$ReadEvent.signalEvent(SocketTube.java:965)
    at java.net.http/jdk.internal.net.http.SocketTube$SocketFlowEvent.handle(SocketTube.java:253)
    at java.net.http/jdk.internal.net.http.HttpClientImpl$SelectorManager.handleEvent(HttpClientImpl.java:1467)
    at java.net.http/jdk.internal.net.http.HttpClientImpl$SelectorManager.lambda$run$3(HttpClientImpl.java:1412)
    at java.base/java.util.ArrayList.forEach(ArrayList.java:1596)
    at java.net.http/jdk.internal.net.http.HttpClientImpl$SelectorManager.run(HttpClientImpl.java:1412)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 20.11 s -- in com.herokuapp.theinternet.PositiveTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 23.589 s
[INFO] Finished at: 2024-02-19T22:14:09+05:30
[INFO] -----

```