

## **EX: 5 WEB TESTING AND DATA ENTRY USING SELENIUM AND TESTING**

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**Subject:** Software Testing

### **Instructions**

**Website:** <http://testphp.vulnweb.com/userinfo.php>

To Perform Web Testing using Selenium and perform following:

1. Login the website
2. Enter text document to notepad
3. Update text content to website

**Aim:** Perform Web Testing using Selenium

### **Procedure:**

- a. Open a web browser and Login
- b. Retrieve and manipulate text content on the webpage

### **Steps**

1. Created 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 : TestHero The package and class will be created.

5.Add code to TestHero.java

```
package com.herokuapp.theinternet;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;
import java.io.File;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;

public class TestHero {

    @Test
    public void loginTest() throws IOException, InterruptedException {
        WebDriver driver = new ChromeDriver();
        String url = "http://testphp.vulnweb.com/login.php";
        driver.get(url);
        driver.manage().window().maximize();
        sleep(2);

        WebElement username =
driver.findElement(By.xpath("//div[@id='content']/div[1]/form[@name='loginform']/table//input[@name='uname']"));
        username.sendKeys("test");

        WebElement password =
driver.findElement(By.xpath("//div[@id='content']/div[1]/form[@name='loginform']/table//input[@name='pass']"));
        password.sendKeys("test");
        sleep(2);

        WebElement loginbtn =
driver.findElement(By.xpath("//div[@id='content']//form[@name='loginform']/table/tbody/tr[3]/td/input[@value='login']"));
        loginbtn.click();
        System.out.println("The Test Executed Successfully");

        String filePath = System.getProperty("user.dir") + File.separator +
"userdetail.txt";
        BufferedReader reader = new BufferedReader(new FileReader(filePath));
//        BufferedReader reader = new BufferedReader(new
FileReader(filePath));
        String line = reader.readLine();
    }
}
```

```

        String[] content = line.split(",");

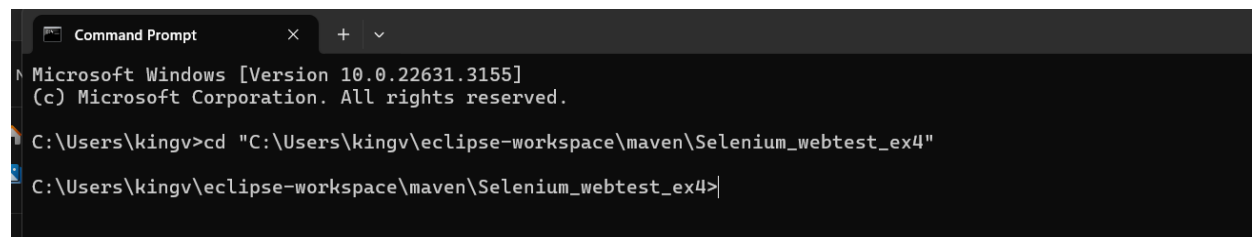
        WebElement field1_input =
driver.findElement(By.xpath("//div[@id='content']/div[2]/form[@name='form1']/
table//input[@name='uname']"));
        WebElement field2_input =
driver.findElement(By.xpath("//div[@id='content']/div[2]/form[@name='form1']/
table//input[@name='ucc']"));
        WebElement field3_input =
driver.findElement(By.xpath("//div[@id='content']/div[2]/form[@name='form1']/
table//input[@name='uemail']"));
        WebElement field4_input =
driver.findElement(By.xpath("//div[@id='content']/div[2]/form[@name='form1']/
table//input[@name='uphone']"));
        WebElement field5_input =
driver.findElement(By.xpath("//div[@id='content']/div[2]/form[@name='form1']/
table//textarea[@name='uaddress']"));

        // Clear the input fields
        field1_input.clear();
        field2_input.clear();
        field3_input.clear();
        field4_input.clear();
        field5_input.clear();
//
        sleep(5);
        field1_input.sendKeys(content[0]);
        field2_input.sendKeys(content[1]);
        field3_input.sendKeys(content[2]);
        field4_input.sendKeys(content[3]);
        field5_input.sendKeys(content[4]);
        sleep(5);
        WebElement submit_btn =
driver.findElement(By.xpath("//div[@id='content']//form[@name='form1']/table/
tbody/tr[6]/td/input[@name='update']"));
        submit_btn.click();
        reader.close();
        driver.close();
    }

    private void sleep(int sec) {
        try {
            Thread.sleep(sec * 1000);
        } catch (InterruptedException e) {
            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\workspace\maven\Selenium_webtest_ex4"

C:\Users\kingv\workspace\maven\Selenium_webtest_ex4>

```

## 7. Run Code: mvn clean test

The screenshot shows a web browser window with the address bar displaying "testphp.vulnweb.com/login.php". The page title is "login page". The browser's address bar also shows "Not secure". The page content includes the Acunetix logo and a navigation menu with links: home, categories, artists, disclaimer, your cart, guestbook, and AJAX Demo. A search bar is present with a "go" button. A sidebar on the left contains links: Browse categories, Browse artists, Your cart, Signup, Your profile, Our guestbook, and AJAX Demo. A "Links" section includes Security art, PHP scanner, PHP vuln help, and Fractal Explorer. A "Warning" box at the bottom states: "Warning: This is not a real shop. This is an example PHP application, which is intentionally vulnerable to web attacks. It is intended to help you test Acunetix. It also helps you understand how developer errors and bad configuration may let someone break into your website. You can use it to test other tools and your manual hacking skills as well. Tip: Look for potential SQL injections, Cross-site Scripting (XSS), and Cross-site Request Forgery (CSRF), and more."



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```
Command Prompt
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.TestHero
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 Test Executed Successfully
Mar 01, 2024 4:53:02 PM org.openqa.selenium.remote.http.WebSocket$Listener onError
WARNING: Connection reset
```

```
Command Prompt
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
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The Test Executed Successfully
Mar 01, 2024 4:53:02 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$SchedulableTask.run(SequentialScheduler.java:207)
    at java.net.http/jdk.internal.net.http.common.SequentialScheduler.runOrSchedule(SequentialScheduler.java:280)
    at java.net.http/jdk.internal.net.http.common.SequentialScheduler.runOrSchedule(SequentialScheduler.java:233)
    at java.net.http/jdk.internal.net.http.SocketTube$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: 50.24 s -- in com.herokuapp.theinternet.TestHero
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 55.650 s
[INFO] Finished at: 2024-03-01T16:53:03+05:30
[INFO]
[INFO] -----
```