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| Ex. No: 9 | **AUTOMATION TESTING ON WEB PAGES USING SELENIUM** |
| Date: 14/10/2021 |
| Video Link: | <https://drive.google.com/file/d/1PQADTm5pzTzgAwcskkI7ZJS-4OmUThoi/view?usp=sharing> |

**OBJECTIVE**

The objective of the experiment is to perform automation testing on a project web page E-Learning System using selenium framework on different browsers using Java/Python/C#

**DESCRIPTION:**

A webpage is to be exhaustively tested using different browsers using selenium

framework. A webpage with multiple form fields (Text box, radio button, drop down buttons,

buttons, hyperlink) is created and uploaded into a webserver (IIS/Apache). The content and the form fields in the webpage is individually checked. Also, the client-side validation performed using JavaScript is also to be evaluated. The evaluation is to be carried out by developing various test cases for every individual web component. To this end, an extensive software testing framework is required. Selenium is a free opensource automating and testing framework that supports C#, Java, Perl, PHP, Python and Ruby. Selenium Web driver provides the functionality of conducting various testcases.

**PROCEDURE:**

**Server side:**

* Load the designed Webpage to be tested in the server.

(IIS Server- C:\inetpub\wwwroot)

(Apache Server- ………………….)

**Client side:**

* Download all the necessary selenium packages based on the host machine requirement (windows/mac/linux, x86/x64)
* Download the corresponding browser’s (Chrome/opera/firefox) web driver to integrate the IDE & browser.
* Using the IDE (Eclipse/Jupyter) create a new Java/Python program.
* Import all the required selenium packages in the java program.
* Using setProperty(), provide the name and location of the browser’s webdriver.
* And a WebDriver class instances of the browser is created and it is used to access the webpage.
* The method navigate().to(“URL”) launches the website in the test browser.
* Every component in a webpage is accessed by the method findElement() and specific

entities using the following

o findElement(By.id(&quot;identifier value&quot;))

o findElement(By.name(&quot;name&quot;))nd

o findElement(By.linkText(“Link text”))

o findElement(By.className(“class name”))

* Values are passed on using the method sendKeys(“value”).
* Inner HTML values are obtained using the method getText().
* Values from forms are obtained using the method getAttribute(&quot;value&quot;).
* Browser events such as click, clear, back, forward, refresh, and close are performed using the methods click(), clear(), back(), forward(), refresh(), quit() respectively.
* Also, moving between windows and frames are performed using the methods switchTo().window(&quot;windowName&quot;) and switchTo().frame(&quot;frameName&quot;);
* Javascript method is invoked by the method executeScript() of the class JavascriptExecuter

**SOURCE CODE (Chrome Browser):**

**package** selenium;

**import** java.util.concurrent.TimeUnit;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.chrome.ChromeOptions;

**import** org.openqa.selenium.support.ui.FluentWait;

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

**public** **class** chrome {

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

//Opening the chrome borwser

System.*setProperty*("webdriver.chrome.driver", "D:\\Software-Engineering-Lab\\Exp-9-Selenium\\chromedriver\_win32\\chromedriver.exe");

WebDriver webDriver = **new** ChromeDriver();

//Maximize the Window

webDriver.manage().window().maximize();

//Navigate to the URL

webDriver.get("https://www.rubangino.in/EXP-9/index.html");

System.***out***.println("\nWeb Testing Started Successfully!!");

System.***out***.println("\nTEST CASES");

//Test Case 1: Verify url getCurrentURL()

System.***out***.println("\nTest Case 1: Verifying the URL");

String desiredURL = "https://www.rubangino.in/EXP-9/index.html";

String acutalURL = webDriver.getCurrentUrl();

System.***out***.println("Desired URL: " + desiredURL);

System.***out***.println("Acutal URL: " + acutalURL);

**if** (acutalURL.equals(desiredURL)) {

System.***out***.println("Status: URL is Correct");

System.***out***.println("Summary -> Test Case 1: Passed");

}

**else** {

System.***out***.println("Status: URL is Wrong");

System.***out***.println("Summary -> Test Case 1: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 2: Verify the Page title

System.***out***.println("Test Case 2: Verifying the Page TITLE");

String actualTitle = webDriver.getTitle();

String desiredTitle = "E-Learning System";

System.***out***.println("Actual TITLE: " + actualTitle);

System.***out***.println("Desired TITLE: " + desiredTitle);

**if**(actualTitle.equals(desiredTitle)) {

System.***out***.println("Status: Title is Correct");

System.***out***.println("Summary -> Test Case 2: Passed");

}

**else** {

System.***out***.println("Status: Title is Wrong");

System.***out***.println("Summary -> Test Case 2: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 3: Testing Home page Register Button

System.***out***.println("Test Case 3: Testing Register Button");

webDriver.findElement(By.*id*("register-btn")).click();

String desiredRegURL = "https://www.rubangino.in/EXP-9/index.html#register";

String reg\_URL = webDriver.getCurrentUrl();

System.***out***.println("Actual URL: " + reg\_URL);

System.***out***.println("Desired URL: " + desiredRegURL);

**if**(reg\_URL.equals(desiredURL)) {

System.***out***.println("Register button is working Fine.");

System.***out***.println("Summary -> Test Case 3: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 3: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 4: Testing About Navigation button

System.***out***.println("Test Case 4: Testing About Navigation Button");

webDriver.findElement(By.*id*("about-btn")).click();

String desiredAboutURL = "https://www.rubangino.in/EXP-9/index.html#about";

String about\_URL = webDriver.getCurrentUrl();

System.***out***.println("Actual URL: " + about\_URL);

System.***out***.println("Desired URL: " + desiredAboutURL);

**if**(about\_URL.equals(desiredAboutURL)) {

System.***out***.println("About Button Working Successfull");

System.***out***.println("Summary -> Test Case 4: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 4: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 5: Testing Register Navigation button

System.***out***.println("Test Case 5: Testing Register Navigation Button");

webDriver.findElement(By.*id*("register-btn")).click();

String desiredRegisterURL = "https://www.rubangino.in/EXP-9/index.html#register";

String reg\_nav\_URL = webDriver.getCurrentUrl();

System.***out***.println("Actual URL: " + reg\_nav\_URL);

System.***out***.println("Desired URL: " + desiredRegisterURL);

**if**(reg\_nav\_URL.equals(desiredRegisterURL)) {

System.***out***.println("Register Nav Button Working Successfull");

System.***out***.println("Summary -> Test Case 5: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 5: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 6: Testing Contact Navigation button

System.***out***.println("Test Case 6: Testing Contact Navigation Button");

webDriver.findElement(By.*id*("contact-btn")).click();

String desiredContactURL = "https://www.rubangino.in/EXP-9/index.html#contact";

String contactURL = webDriver.getCurrentUrl();

System.***out***.println("Actual URL: " + contactURL);

System.***out***.println("Desired URL: " + desiredContactURL);

**if**(contactURL.equals(desiredContactURL)) {

System.***out***.println("Register Nav Button Working Successfull");

System.***out***.println("Summary -> Test Case 6: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 6: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Testing Registration Form

//Test Case 7: Testing First Name

webDriver.get("https://www.rubangino.in/EXP-9/index.html#register");

System.***out***.println("Test Case 7: Testing First Name");

WebElement firstName = webDriver.findElement((By.*id*("fname")));

firstName.sendKeys("Ruban Gino");

String string1 = firstName.getAttribute("value");

System.***out***.println("Input: " + string1);

**if**(string1.length() <= 10) {

System.***out***.println("Summary -> Test Case 7: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 7: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 8: Testing Last Name

System.***out***.println("Test Case 8: Testing Last Name");

WebElement lastName = webDriver.findElement((By.*id*("lname")));

lastName.sendKeys("Singh");

String string2 = lastName.getAttribute("value");

System.***out***.println("Input: " + string2);

**if**(string2.length() <= 10) {

System.***out***.println("Summary -> Test Case 8: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 8: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 9: Testing User Name

System.***out***.println("Test Case 9: Testing User Name");

WebElement userName = webDriver.findElement((By.*id*("username")));

userName.sendKeys("rubangino");

String string3 = userName.getAttribute("value");

System.***out***.println("Input: " + string3);

**if**(string3.length() !=0 ) {

System.***out***.println("Summary -> Test Case 9: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 9: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 10: Testing Email id

System.***out***.println("Test Case 10: Testing Email Id");

WebElement emailId = webDriver.findElement((By.*id*("email")));

emailId.sendKeys("info@rubangino.in");

String string4 = emailId.getAttribute("value");

System.***out***.println("Input: " + string4);

**if**(string4.contains("@") && string4.contains(".")) {

System.***out***.println("Summary -> Test Case 10: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 10: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 11: Testing Create Password

System.***out***.println("Test Case 11: Testing Create Password Input");

WebElement createPassword = webDriver.findElement((By.*id*("createPassword")));

createPassword.sendKeys("E-Learning@#$System!@#$");

String string5 = createPassword.getAttribute("value");

System.***out***.println("Input: " + string5);

**if**(string5.length() >= 8 && string5.length() <= 20) {

System.***out***.println("Summary -> Test Case 11: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 11: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 12: Testing Re-Type Password

System.***out***.println("Test Case 12: Testing Re Type Password Input");

WebElement reTypePassword = webDriver.findElement((By.*id*("reTypePassword")));

reTypePassword.sendKeys("E-Learning@#$System!@#$");

String string6 = createPassword.getAttribute("value");

System.***out***.println("Input: " + string6);

**if**(string5 == string6) {

System.***out***.println("Summary -> Test Case 12: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 12: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 13: Testing Country

System.***out***.println("Test Case 13: Testing Country Input");

WebElement countryInput = webDriver.findElement((By.*id*("country")));

countryInput.sendKeys("India");

String string7 = countryInput.getAttribute("value");

System.***out***.println("Input: " + string7);

**if**(string7.length() <= 15 && string7 != "!@#$%^&\*()\_-=<>?{}|][:;") {

System.***out***.println("Summary -> Test Case 13: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 13: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 14: Testing Profession DropDown

System.***out***.println("Test Case 14: Testing Drop Down");

WebElement profession = webDriver.findElement(By.*id*("profession"));

Select dropdown = **new** Select(profession);

dropdown.selectByVisibleText("Student");

String string9 = profession.getAttribute("value");

System.***out***.println("Input: " + string9);

String student = "Student";

String instructor = "Instructor";

**if**(string9.equals(student) || string9.equals(instructor)) {

System.***out***.println("Summary -> Test Case 14: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 14: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 15: Testing phone number

System.***out***.println("Test Case 15: Testing Phone Number");

WebElement phoneNumber = webDriver.findElement((By.*id*("phone")));

phoneNumber.sendKeys("+919344232829");

String string8 = phoneNumber.getAttribute("value");

System.***out***.println("Input: " + string8);

**if**(string8.contains("+") && string8.length() <= 13) {

System.***out***.println("Summary -> Test Case 15: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 15: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 16: Testing Check Boxes

System.***out***.println("Test Case 16: Testing Terms Check Box");

webDriver.findElement(By.*xpath*("//\*[@id=\"terms\"]")).click();

**if**(webDriver.findElement(By.*xpath*("//\*[@id=\"terms\"]")).isSelected()) {

System.***out***.println("Summary -> Test Case 16: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 16: Failed");

}

webDriver.findElement(By.*id*("submit-button")).click();

Thread.*sleep*(3000);

//Getting Alert

System.***out***.println();

String AlertText = webDriver.switchTo().alert().getText();

webDriver.switchTo().alert().accept();

System.***out***.println("Alert text is: " + AlertText);

System.***out***.println("\nAlert Accepted!!");

Thread.*sleep*(5000);

//Close the browser

webDriver.close();

System.***out***.println("\nWeb Testing Ended Successfully!");

}

}

**OUTPUT (Chrome Browser):**

Graphical user interface, text

Description automatically generated

Graphical user interface

Description automatically generated

Graphical user interface, text

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application

Description automatically generated

**Browser: Chrome Browser**

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

**SOURCE CODE (Opera Browser):**

**package** selenium;

**import** java.util.concurrent.TimeUnit;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.chrome.ChromeOptions;

**import** org.openqa.selenium.opera.OperaDriver;

**import** org.openqa.selenium.support.ui.FluentWait;

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

//import com.sun.org.apache.bcel.internal.generic.Select;

**public** **class** opera {

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

//Opening the Opera borwser

System.*setProperty*("webdriver.opera.driver", "D:\\Software-Engineering-Lab\\Exp-9-Selenium\\operadriver\_win64\\operadriver\_win64\\operadriver.exe");

WebDriver webDriver = **new** OperaDriver();

//Maximize the Window

webDriver.manage().window().maximize();

//Navigate to the URL

webDriver.get("https://www.rubangino.in/EXP-9/index.html");

System.***out***.println("\nWeb Testing Started Successfully!!");

System.***out***.println("\nTEST CASES");

//Test Case 1: Verify url getCurrentURL()

System.***out***.println("\nTest Case 1: Verifying the URL");

String desiredURL = "https://www.rubangino.in/EXP-9/index.html";

String acutalURL = webDriver.getCurrentUrl();

System.***out***.println("Desired URL: " + desiredURL);

System.***out***.println("Acutal URL: " + acutalURL);

**if** (acutalURL.equals(desiredURL)) {

System.***out***.println("Status: URL is Correct");

System.***out***.println("Summary -> Test Case 1: Passed");

}

**else** {

System.***out***.println("Status: URL is Wrong");

System.***out***.println("Summary -> Test Case 1: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 2: Verify the Page title

System.***out***.println("Test Case 2: Verifying the Page TITLE");

String actualTitle = webDriver.getTitle();

String desiredTitle = "E-Learning System";

System.***out***.println("Actual TITLE: " + actualTitle);

System.***out***.println("Desired TITLE: " + desiredTitle);

**if**(actualTitle.equals(desiredTitle)) {

System.***out***.println("Status: Title is Correct");

System.***out***.println("Summary -> Test Case 2: Passed");

}

**else** {

System.***out***.println("Status: Title is Wrong");

System.***out***.println("Summary -> Test Case 2: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 3: Testing Home page Register Button

System.***out***.println("Test Case 3: Testing Register Button");

webDriver.findElement(By.*id*("register-btn")).click();

String desiredRegURL = "https://www.rubangino.in/EXP-9/index.html#register";

String reg\_URL = webDriver.getCurrentUrl();

System.***out***.println("Actual URL: " + reg\_URL);

System.***out***.println("Desired URL: " + desiredRegURL);

**if**(reg\_URL.equals(desiredURL)) {

System.***out***.println("Register button is working Fine.");

System.***out***.println("Summary -> Test Case 3: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 3: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 4: Testing About Navigation button

System.***out***.println("Test Case 4: Testing About Navigation Button");

webDriver.findElement(By.*id*("about-btn")).click();

String desiredAboutURL = "https://www.rubangino.in/EXP-9/index.html#about";

String about\_URL = webDriver.getCurrentUrl();

System.***out***.println("Actual URL: " + about\_URL);

System.***out***.println("Desired URL: " + desiredAboutURL);

**if**(about\_URL.equals(desiredAboutURL)) {

System.***out***.println("About Button Working Successfull");

System.***out***.println("Summary -> Test Case 4: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 4: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 5: Testing Register Navigation button

System.***out***.println("Test Case 5: Testing Register Navigation Button");

webDriver.findElement(By.*id*("register-btn")).click();

String desiredRegisterURL = "https://www.rubangino.in/EXP-9/index.html#register";

String reg\_nav\_URL = webDriver.getCurrentUrl();

System.***out***.println("Actual URL: " + reg\_nav\_URL);

System.***out***.println("Desired URL: " + desiredRegisterURL);

**if**(reg\_nav\_URL.equals(desiredRegisterURL)) {

System.***out***.println("Register Nav Button Working Successfull");

System.***out***.println("Summary -> Test Case 5: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 5: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 6: Testing Contact Navigation button

System.***out***.println("Test Case 6: Testing Contact Navigation Button");

webDriver.findElement(By.*id*("contact-btn")).click();

String desiredContactURL = "https://www.rubangino.in/EXP-9/index.html#contact";

String contactURL = webDriver.getCurrentUrl();

System.***out***.println("Actual URL: " + contactURL);

System.***out***.println("Desired URL: " + desiredContactURL);

**if**(contactURL.equals(desiredContactURL)) {

System.***out***.println("Register Nav Button Working Successfull");

System.***out***.println("Summary -> Test Case 6: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 6: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Testing Registration Form

//Test Case 7: Testing First Name

webDriver.get("https://www.rubangino.in/EXP-9/index.html#register");

System.***out***.println("Test Case 7: Testing First Name");

WebElement firstName = webDriver.findElement((By.*id*("fname")));

firstName.sendKeys("Ruban Gino");

String string1 = firstName.getAttribute("value");

System.***out***.println("Input: " + string1);

**if**(string1.length() <= 10) {

System.***out***.println("Summary -> Test Case 7: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 7: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 8: Testing Last Name

System.***out***.println("Test Case 8: Testing Last Name");

WebElement lastName = webDriver.findElement((By.*id*("lname")));

lastName.sendKeys("Singh");

String string2 = lastName.getAttribute("value");

System.***out***.println("Input: " + string2);

**if**(string2.length() <= 10) {

System.***out***.println("Summary -> Test Case 8: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 8: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 9: Testing User Name

System.***out***.println("Test Case 9: Testing User Name");

WebElement userName = webDriver.findElement((By.*id*("username")));

userName.sendKeys("rubangino");

String string3 = userName.getAttribute("value");

System.***out***.println("Input: " + string3);

**if**(string3.length() !=0 ) {

System.***out***.println("Summary -> Test Case 9: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 9: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 10: Testing Email id

System.***out***.println("Test Case 10: Testing Email Id");

WebElement emailId = webDriver.findElement((By.*id*("email")));

emailId.sendKeys("info@rubangino.in");

String string4 = emailId.getAttribute("value");

System.***out***.println("Input: " + string4);

**if**(string4.contains("@") && string4.contains(".")) {

System.***out***.println("Summary -> Test Case 10: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 10: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 11: Testing Create Password

System.***out***.println("Test Case 11: Testing Create Password Input");

WebElement createPassword = webDriver.findElement((By.*id*("createPassword")));

createPassword.sendKeys("E-Learning@#$System!@#$");

String string5 = createPassword.getAttribute("value");

System.***out***.println("Input: " + string5);

**if**(string5.length() >= 8 && string5.length() <= 20) {

System.***out***.println("Summary -> Test Case 11: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 11: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 12: Testing Re-Type Password

System.***out***.println("Test Case 12: Testing Re Type Password Input");

WebElement reTypePassword = webDriver.findElement((By.*id*("reTypePassword")));

reTypePassword.sendKeys("E-Learning@#$System!@#$");

String string6 = createPassword.getAttribute("value");

System.***out***.println("Input: " + string6);

**if**(string5 == string6) {

System.***out***.println("Summary -> Test Case 12: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 12: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 13: Testing Country

System.***out***.println("Test Case 13: Testing Country Input");

WebElement countryInput = webDriver.findElement((By.*id*("country")));

countryInput.sendKeys("India");

String string7 = countryInput.getAttribute("value");

System.***out***.println("Input: " + string7);

**if**(string7.length() <= 15 && string7 != "!@#$%^&\*()\_-=<>?{}|][:;") {

System.***out***.println("Summary -> Test Case 13: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 13: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 14: Testing Profession DropDown

System.***out***.println("Test Case 14: Testing Drop Down");

WebElement profession = webDriver.findElement(By.*id*("profession"));

Select dropdown = **new** Select(profession);

dropdown.selectByVisibleText("Student");

String string9 = profession.getAttribute("value");

System.***out***.println("Input: " + string9);

String student = "Student";

String instructor = "Instructor";

**if**(string9.equals(student) || string9.equals(instructor)) {

System.***out***.println("Summary -> Test Case 14: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 14: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 15: Testing phone number

System.***out***.println("Test Case 15: Testing Phone Number");

WebElement phoneNumber = webDriver.findElement((By.*id*("phone")));

phoneNumber.sendKeys("+919344232829");

String string8 = phoneNumber.getAttribute("value");

System.***out***.println("Input: " + string8);

**if**(string8.contains("+") && string8.length() <= 13) {

System.***out***.println("Summary -> Test Case 15: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 15: Failed");

}

System.***out***.println();

Thread.*sleep*(3000);

//Test Case 16: Testing Check Boxes

System.***out***.println("Test Case 16: Testing Terms Check Box");

webDriver.findElement(By.*xpath*("//\*[@id=\"terms\"]")).click();

**if**(webDriver.findElement(By.*xpath*("//\*[@id=\"terms\"]")).isSelected()) {

System.***out***.println("Summary -> Test Case 16: Passed");

}

**else** {

System.***out***.println("Summary -> Test Case 16: Failed");

}

webDriver.findElement(By.*id*("submit-button")).click();

Thread.*sleep*(3000);

//Getting Alert

System.***out***.println();

String AlertText = webDriver.switchTo().alert().getText();

webDriver.switchTo().alert().accept();

System.***out***.println("Alert text is: " + AlertText);

System.***out***.println("\nAlert Accepted!!");

Thread.*sleep*(5000);

//Close the browser

webDriver.close();

System.***out***.println("\nWeb Testing Ended Successfully!");

}

}

**OUTPUT (Opera Browser):**

Graphical user interface, text

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**Browser: Opera Browser**

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

**RESULT:**

A web page was tested in the Chrome & Opera Browsers by creating various testcases

For the project E-Learning System using java and selenium framework.