



Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Spring, Year:2021), B.Sc. in CSE (Day/Eve)

Course Title: Software Testing and Quality Assurance Lab
Course Code: CSE 434 Section: 183DA

Lab Project Name: _ _ _ Green University website test _ _ _ _ _

Student Details

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3.		

Submission Date : _ _ _ _ **15/5/2022** _ _ _ _ _
Course Teacher's Name : _ _ _ _ **Md. Rajibul Palas** _ _ _ _ _
_ _ _

[For Teachers use only: **Don't Write Anything inside this box**]

Lab Project Status

Marks:

Signature:

Comments:

Date:

Introduction: Our project is a simple website testing operation which will operate at Green University's official student portal by using selenium and chrome driver.

Selenium:- Selenium is an open-source tool that automates web browsers. It provides a single interface that lets you write test scripts in programming languages like Ruby, Java, NodeJS, PHP, Perl, Python, and C#, among others.

Everyone who cares about the state of their web app Uses Selenium.

Google chrome WebDriver:- WebDriver is an open source tool for automated testing of webapps across many browsers. It provides capabilities for navigating to web pages, user input, JavaScript execution, and more. ChromeDriver is a standalone server that implements the W3C WebDriver standard.

Design Goals/Objective:-

- To test the integrity of the website.
- To test the button if the perform well.

Implementation of the Project:

```

package projectsqa;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import java.util.concurrent.TimeUnit;
import java.util.List;
import java.util.ArrayList;
import java.util.Scanner;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
public class ProjectSQA {

    static void note(String name){
        System.out.println("-----");
        System.out.println("          "+name+"");
        System.out.println("-----");
    }

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

```

```

Scanner myObj = new Scanner(System.in);
System.out.print("Enter userID for Login:- ");
int userID = myObj.nextInt();

System.out.print("Enter user Password for Login:- ");
String useName = myObj.nextLine();
String userName = myObj.nextLine();

System.out.print("Enter your full name:- ");
String fullName = myObj.nextLine();

System.out.print("What is the amount of your balance due(If 0 then input 00):- ");
String balance = myObj.nextLine();

System.out.print("What is Email account name:- ");
String email = myObj.nextLine();

System.setProperty("webdriver.chrome.driver", "C:\\Users\\User\\Downloads\\VACC\\chromedriver.exe");
WebDriver driver = new ChromeDriver();
driver.get("https://studentportal.green.edu.bd/Account/login");
driver.manage().window().maximize();

```

```

String url= driver.getCurrentUrl();
System.out.println("Current URL is:- "+url);

String title= driver.getTitle();
System.out.println("Current page title is:- "+title);

Thread.sleep(1000);
driver.findElement(By.id("Input_LoginId")).sendKeys(""+userID);
Thread.sleep(1000);
driver.findElement(By.id("Input_Password")).sendKeys(""+userName);
driver.findElement(By.xpath("/html/body/div/main/div/section/form/div[4]/button")).click();

String currntTitle= driver.getTitle();
note("Log In Test");
System.out.println(currntTitle);
String expectedTitle= "Home page - GUB Student Portal";
if(currntTitle.equals(expectedTitle)){
    System.out.println("Log in Successful");
    System.out.println("Current page title is:- " +currntTitle);
    note("Profile Name Check");
    String currentProfile = driver.findElement(By.xpath("/html/body/header/nav/div/div/div[2]/div/ul/li[2]/a/span")).getText();
    String expectedProfile = ""+userID+" | "+fullName;
    if(currentProfile.equals(expectedProfile)){
        System.out.println("Hurrah! Your Name and ID matched");
    }else{
        System.out.println("Name and ID not matching");
    }
    Thread.sleep(3000);
    note("Balance Check");
    driver.findElement(By.xpath("/html/body/div/main/div[1]/ul/div[1]/div/li[3]/a/span")).click();
    Thread.sleep(3000);
    String currentDue= driver.findElement(By.xpath("/html/body/div/main/div[2]/div/section/div[2]/div[2]/form/div/div[3]/div[1]")).getText();

String expectedDue= "Balance (Due/Advance): "+balance;
System.out.println("Current Balance due is :- "+currentDue);
System.out.println("Expected Balance due is :- "+expectedDue);
if(currentDue.equals(expectedDue)){
    System.out.println("Hurrah! Your Due taka is okay");
}else{
    System.out.println("There is a problem in your due");
}
note("Footer Check");
String expectedFooter = "© 2022 - Edusoft Consultants Ltd.";
String currentFooter = driver.findElement(By.xpath("/html/body/footer/div")).getText();
System.out.println("Current Footer is :- "+currentFooter);
System.out.println("Expected Footer is :- "+expectedFooter);
if(expectedFooter.equals(currentFooter)){
    System.out.println("Footer is okay");
}else{
    System.out.println("Footer is not okay");
}
note("Active status Check");
driver.findElement(By.xpath("/html/body/div/main/div[1]/ul/div[1]/div/li[8]/a/span")).click();
Thread.sleep(3000);
String currentActiveStatus= driver.findElement(By.xpath("/html/body/div/main/div[2]/div/section/div[4]/div/div/div[2]/div/div/div/div[2]/span[1]/span")).getText();
String expectedActiveStatus = "InActive";
System.out.println("Current ActiveStatus is :- "+currentActiveStatus);
System.out.println("Expected ActiveStatus is :- "+expectedActiveStatus);
if(expectedFooter.equals(currentFooter)){
    System.out.println("ActiveStatus is okay");
}else{
    System.out.println("ActiveStatus is not okay");
}

}else{
    System.out.println("ActiveStatus is not okay");
}

note("Email Check");
driver.findElement(By.xpath("/html/body/div/main/div[1]/ul/div[1]/div/li[8]/a/span")).click();
Thread.sleep(3000);
String currentEmail= driver.findElement(By.xpath("/html/body/div/main/div[2]/div/section/div[5]/div/div/div[2]/div/div/div/div[1]/span[1]/span")).getText();
String expectedEmail = email;
System.out.println("Current Email is :- "+currentEmail);
System.out.println("Expected Email is :- "+expectedEmail);
if(currentEmail.equals(expectedEmail)){
    System.out.println("Email is okay");
}else{
    System.out.println("Email is not okay");
}
note("LogOut BTN Check");
driver.findElement(By.xpath("/html/body/header/nav/div/div/div[2]/div/ul/li[3]/a")).click();
currntTitle= driver.getTitle();
System.out.println("Current page title is:- " +currntTitle);
expectedTitle= "Log in - GUB Student Portal";
if(currntTitle.equals(expectedTitle)){
    System.out.println("LogOut Successful");
}else{
    System.out.println("LogOut UnSuccessful");
}
}
}
else{
    System.out.println("Log in Unsuccessful because The Current page is still Log In page.");
}
}

driver.close();
}
}

```

Result:-

Output - ProjectSQA (run)

```
run:
Enter userID for Login:- 183002049
Enter user Password for Login:- 12345@#
Enter your full name:- Kowser Ahmed Sajol
What is the amount of your balance due(If 0 then input 00):- 7000
What is Email account name:- kowsersojol@gmail.com
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.
Starting ChromeDriver 100.0.4896.60 (6a5d10861ce8de5fce22564658033b43cb7de047-refs/branch-heads/4896@{#875}) on port 54137
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
May 15, 2022 3:12:35 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
May 15, 2022 3:12:35 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 100, so returning the closest version found: 99
May 15, 2022 3:12:35 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
INFO: Found CDP implementation for version 100 of 99
```

INFO: Found CDP implementation for version 100 of 99

Current URL is:- <https://studentportal.green.edu.bd/Account/login>

Current page title is:- Log in - GUB Student Portal

Log In Test

Home page - GUB Student Portal

Log in Successful

Current page title is:- Home page - GUB Student Portal

Profile Name Check

Hurrah! Your Name and ID matched

Balance Check

Current Balance due is :- Balance (Due/Advance): 7000

Expected Balance due is :- Balance (Due/Advance): 7000

Hurrah! Your Due taka is okey

Footer Check

Current Footer is :- © 2022 - Edusoft Consultants Ltd.

Expected Footer is :- © 2022 - Edusoft Consultants Ltd.

Footer is okey

Active status Check

Current ActiveStatus is :- InActive

Expected ActiveStatus is :- InActive

ActiveStatus is okey

Email Check

Current Email is :- kowersojol@gmail.com

Expected Email is :- kowersojol@gmail.com

Email is okey

LogOut BTN Check

Current page title is:- Log in - GUB Student Portal

LogOut Successful

Current page title is:- Log in - GUB Student Portal

LogOut Successful

May 15, 2022 3:12:52 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:394)
at java.base/sun.nio.ch.SocketChannelImpl.read(SocketChannelImpl.java:426)
at io.netty.buffer.PooledByteBuf.setBytes(PooledByteBuf.java:258)
at io.netty.buffer.AbstractByteBuf.writeBytes(AbstractByteBuf.java:1132)
at io.netty.channel.socket.nio.NioSocketChannel.doReadBytes(NioSocketChannel.java:350)
at io.netty.channel.nio.AbstractNioByteChannel$NioByteUnsafe.read(AbstractNioByteChannel.java:151)
at io.netty.channel.nio.NioEventLoop.processSelectedKey(NioEventLoop.java:722)
at io.netty.channel.nio.NioEventLoop.processSelectedKeysOptimized(NioEventLoop.java:658)
at io.netty.channel.nio.NioEventLoop.processSelectedKeys(NioEventLoop.java:584)
at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:496)
at io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.java:986)
at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
at io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
at java.base/java.lang.Thread.run(Thread.java:833)
```

BUILD SUCCESSFUL (total time: 54 seconds)

Bug Reporting:-

Category	Label	Value
Bug	Id number	#101
	name	Website does not show the correct account details.
	Reporter	Kowser Ahmed Sajol
	Submit date	15-May-22
Bug overview	Summary	When I go to the bill history, it shows last months account details. It is unable to update this months account details.
	URL	https://studentportal.green.edu.bd/Student/StudentBillHistory
	Screenshot	
Environment	Platform	Microsoft Windows
	Operating System	Windows 10
	Browser	Google chrome
Bug Details	Steps to reproduce	1. Go to website, 2. Log In, 3. Go to bill history

	Expected result	Balance (Due/Advance): 00
	Actual result	Balance (Due/Advance): 7000
	Description	
Bug tracking	Severity	S2
	Assigned to	
	Priority	P2

Scope of Future Work:-

Some tests were unable to perform in this project because of not having the permission of the database. If we try to test those object we will need full authority of the database.

Conclusion:- Software testing is an essential part of the software industry. It has a big role in the software industry. Our idea was to execute a test in our university student portal and we are proud to say that we have our success.