



American International University-Bangladesh

Department of Computer Science
Faculty of Science & Technology (FST)

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Software Quality Assurance and Testing [B]

Assignment on

Test a software project with automated testing tool Selenium & take all screen sorts.

Submitted by

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Test Case for Login

Project Name: Tourist Management System			Test Designed by: Tonoy	
Test Case_ID: TMS_1			Test Designed date: 11/11/2023	
Test Priority (Low,Medium,High): High			Test Executed by: Tonoy	
Test Title: verify login with valid email address and password.			Test Execution date: 11/11/2023	
Description: Test the website login page				
Precondition: user has valid email address and password Dependencies: if any				
Test Steps	Test Data	Expected Results	Actual Result	Status (Pass/Fail)
1. Go to the login site. 2. Enter email address. 3. Enter password. 4. Click Sign in.	Email: sarkertonoy05@gmail.com Password: Sarkertonoy1#	User should login into the application	As Expected,	Pass

Selenium:

Project: testProject

Tests + [Run] [Stop] [Refresh] [Find]

Search tests... Run current test Ctrl+R View/signin.php

Command	Target	Value
✓ click	name=email	
✓ type	name=email	sarkeranindo@gmail.com
✓ click	name=password	
✓ type	name=password	Sarkieranindo1#
✓ click	id=login	

Command [] [] [] []

Target [] [] [] []

Value [] [] [] []

Description [] [] [] []

Log Reference

7. click on to login OK 19:57:56

'TestLog' completed successfully 19:57:56

Running 'TestLog'

1. open on http://localhost/manager/View/signin.php OK 19:58:10

2. setWindowSize on 697x768 OK 19:58:11

3. click on name=email OK 19:58:12

4. type on name=email with value sarkeranindo@gmail.com OK 19:58:14

5. click on name=password OK 19:58:15

6. type on name=password with value Sarkieranindo1# OK 19:58:17

7. click on id=login OK 19:58:18

'TestLog' completed successfully 19:58:20

Test Code:

```
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class TestLogTest {
    private WebDriver driver;
    private Map<String, Object> vars;
    JavascriptExecutor js;
    @Before
    public void setUp() {
        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        vars = new HashMap<String, Object>();
    }
    @After
    public void tearDown() {
        driver.quit();
    }
    @Test
    public void testLog() {
        driver.get("http://localhost/manager/View/signin.php");
        driver.manage().window().setSize(new Dimension(697, 768));
        driver.findElement(By.name("email")).click();
        driver.findElement(By.name("email")).sendKeys("sarkeranindo@gmail.com");
        driver.findElement(By.name("password")).click();
        driver.findElement(By.name("password")).sendKeys("Sarkeranindol#");
        driver.findElement(By.id("login")).click();
    }
}
```

Test Case for Registration

Project Name: Tourist Management System			Test Designed by: Tonoy	
Test Case_ID: TMS_2			Test Designed date: 11/11/2023	
Test Priority (Low,Medium,High): High			Test Executed by: Tonoy	
Test Title: Verify registration with valid details			Test Execution date: 11/11/2023	
Description: Test the website registration page				
Precondition: user has valid information. Dependencies: if any				
Test Steps	Test Data	Expected Results	Actual Result	Status (Pass/Fail)
1. Go to the registration site. 2. Enter all the valid information. 3. Click Sign up.	F_name: Anindo L_name: Sarker Gender: Male Dob:2000-11-15 Address: dhaka Username: sarkeranindo Phone:01722045698 Email: sarkeranindo@gmail.com Password: Sarkeranindo1#	User should signup into the application with valid details	As Expected,	Pass

Selenium:

Project: testProject

Tests +

Search tests...

TestReg

Command

Target

Value

1	✓ open	http://localhost/manager/View/register.php	
2	✓ set window size	697x768	
3	✓ click	name=fname	
4	✓ type	name=fname	Anindo
5	✓ click	name=lname	

Command

Target

Value

Description

Log

Reference

10. type on name=email with value sarkeranindo@gmail.com OK 19:36:50

11. click on name=password OK 19:36:50

12. type on name=password with value Sarkeranindo1# OK 19:36:50

13. click on name=address OK 19:36:50

14. type on name=address with value dhaka OK 19:36:51

15. click on name=phone OK 19:36:51

16. type on name=phone with value 01722045698 OK 19:36:51

17. click on name=gender OK 19:36:51

18. select on name=gender with value label=Male OK 19:36:51

19. click on name=u_birthday OK 19:36:51

20. type on name=u_birthday with value 2000-11-15 OK 19:36:51

Test Code:

```
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class TestRegTest {
    private WebDriver driver;
    private Map<String, Object> vars;
    JavascriptExecutor js;
    @Before
    public void setUp() {
        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        vars = new HashMap<String, Object>();
    }
    @After
    public void tearDown() {
        driver.quit();
    }
    @Test
    public void testReg() {
        // Test name: TestReg
        // Step # | name | target | value
        // 1 | open | http://localhost/manager/View/register.php |
        driver.get("http://localhost/manager/View/register.php");
        // 2 | setWindowSize | 697x768 |
        driver.manage().window().setSize(new Dimension(697, 768));
        // 3 | click | name=fname |
        driver.findElement(By.name("fname")).click();
        // 4 | type | name=fname | Anindo
        driver.findElement(By.name("fname")).sendKeys("Anindo");
        // 5 | click | name=lname |
        driver.findElement(By.name("lname")).click();
        // 6 | type | name=lname | Sarker
        driver.findElement(By.name("lname")).sendKeys("Sarker");
        // 7 | click | name=uname |
        driver.findElement(By.name("uname")).click();
        // 8 | type | name=uname | sarkeranindo
        driver.findElement(By.name("uname")).sendKeys("sarkeranindo");
        // 9 | click | name=submit |
    }
}
```

Test Case for Add Employee

Project Name: Tourist Management System			Test Designed by: Sujoy	
Test Case_ID: TMS_3			Test Designed date: 12/11/2023	
Test Priority (Low,Medium,High): Low			Test Executed by: Sujoy	
Test Title: Add employee by manager			Test Execution date: 12/11/2023	
Description: Test the add employee page				
Precondition: Manager have valid first name and last name of employee. Dependencies: if any				
Test Steps	Test Data	Expected Results	Actual Result	Status (Pass/Fail)
1. Go to the homepage site. 2. Click Employee management. 3. Enter First name. 4. Enter Last name. 5. Click Save button.	First name: Tonoy Last name: Sarker	Manager can add employee.	As Expected	Pass

Selenium:

The screenshot displays the Selenium IDE interface. The top toolbar includes buttons for running, saving, and other test actions. The main area shows a test suite named 'TestAddEmployee' with the following steps:

Step	Command	Target	Value
5	double click	id=fname	
6	type	id=fname	Aniruddho
7	click	id=fname	
8	type	id=fname	Das
9	click	id=save-button	

Below the steps, there is a form to add new steps with fields for Command, Target, Value, and Description. At the bottom, the log shows the test execution details:

```

Log      Reference
Running 'TestAddEmployee'
1. open on http://localhost/manager/View/Employee.php OK
2. setWindowSize on 697x768 OK
3. click on id=fname OK
4. click on id=fname OK
5. doubleClick on id=fname OK
6. type on id=fname with value Aniruddho OK
7. click on id=fname OK
8. type on id=fname with value Das OK
9. click on id=save-button OK
'TestAddEmployee' completed successfully
  
```

Test Code:

```
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;

public class TestAddEmployeeTest {
    private WebDriver driver;
    private Map<String, Object> vars;
    JavascriptExecutor js;

    @Before
    public void setUp() {
        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        vars = new HashMap<String, Object>();
    }

    @After
    public void tearDown() {
        driver.quit();
    }

    @Test
    public void testAddEmployee() {
        driver.get("http://localhost/manager/View/Employee.php");
        driver.manage().window().setSize(new Dimension(697, 768));
        driver.findElement(By.id("fname")).click();
        driver.findElement(By.id("fname")).click();
        {
            WebElement element = driver.findElement(By.id("fname"));
            Actions builder = new Actions(driver);
            builder.doubleClick(element).perform();
        }
    }
}
```

Test Case for Forgotten Password

Project Name: Tourist Management System			Test Designed by: Sujoy	
Test Case_ID: TMS_4			Test Designed date: 12/11/2023	
Test Priority (Low,Medium,High): Medium			Test Executed by: Sujoy	
Test Title: Update password			Test Execution date: 12/11/2023	
Description: Test the add Forgotten Password page.				
Precondition: Users need his profile email address Dependencies: if any				
Test Steps	Test Data	Expected Results	Actual Result	Status (Pass/Fail)
1. Go to the sign in site. 2. Click forgotten password button. 3. Enter email address. 4. Click check button.	Email: sarkeranindo@gmail.com	Manager can find his account.	As Expected,	Pass

Selenium:

The screenshot displays the Selenium IDE interface. At the top, the project name is 'testProject'. Below the toolbar, there's a search bar and a dropdown menu showing 'Run current test Ctrl+R' and 'View/emailvari.php'. The main area contains a table of test steps:

	Command	Target	Value
✓ TestForgotPassword*	✓ open	http://localhost:manager/View/emailvari.php	
✓ TestAddEmployee*	✓ set window size	697x768	
✓ TestLog	✓ click	name=email	
✓ TestReg	✓ type	name=email	sarkertonoy05@gmail.com
	✓ click	id=mail	

Below the table, there are input fields for Command, Target, Value, and Description, each with a dropdown menu and a button. At the bottom, there's a 'Log' and 'Reference' section showing the execution log:

```

7. click on id=name OK
8. type on id=name with value Das OK
9. click on id=save-button OK
'TestAddEmployee' completed successfully
Running 'TestForgotPassword'
1. open on http://localhost:manager/View/emailvari.php OK
2. setWindowSize on 697x768 OK
3. click on name=email OK
4. type on name=email with value sarkertonoy05@gmail.com OK
5. click on id=mail OK
'TestForgotPassword' completed successfully
  
```


Test Code:

```
import org.junit.After;
import static org.junit.Assert.*;
import static org.hamcrest.CoreMatchers.is;
import static org.hamcrest.core.IsNot.not;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;

public class TesrForgottenPasswordTest {
    private WebDriver driver;
    private Map<String, Object> vars;
    JavascriptExecutor js;
    @Before
    public void setUp() {
        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        vars = new HashMap<String, Object>();
    }
    @After
    public void tearDown() {
        driver.quit();
    }
    @Test
    public void tesrForgottenPassword() {
        driver.get("http://localhost/manager/View/emailvari.php");
        driver.manage().window().setSize(new Dimension(697, 768));
        driver.findElement(By.name("email")).click();
    }
}
```

Test Case for Update Password

Project Name: Tourist Management System			Test Designed by: Iftier	
Test Case_ID: TMS_5			Test Designed date: 13/11/2023	
Test Priority (Low,Medium,High): High			Test Executed by: Iftier	
Test Title: Update password			Test Execution date: 13/11/2023	
Description: Test the change password page				
Precondition: Dependencies: if any				
Test Steps	Test Data	Expected Results	Actual Result	Status (Pass/Fail)
1. Go to the chnagePassword site. 2. Enter Password and Confirm Password. 3. Click update button.	Password: Sarkeranindo1@ Confirm Password: Sarkeranindo1@	Manager can update his profile password	As Expected	Pass

Selenium:

The screenshot displays the Selenium IDE interface. At the top, the project is named 'testProject'. Below the toolbar, a list of tests is shown on the left, including 'TestForgottenPassword', 'TestAddEmployee', 'TestChangePass', 'TestLog', and 'TestReg'. The 'TestChangePass' test is selected, and its steps are listed in the center:

Step	Command	Target	Value
3	click	id=mypass	
4	type	id=mypass	Sarkeranindo1@
5	click	id=mypass1	
6	type	id=mypass1	Sarkeranindo1@
7	click	name=update	

Below the test steps, there are input fields for Command, Target, Value, and Description. At the bottom, the 'Log' tab is active, showing the execution log for the 'TestChangePass' test. The log indicates that the test completed successfully at 20:58:57.

```

Log Reference
12: click on name=update OK 20:57:18
'TestChangePass' completed successfully 20:58:18
Running 'TestChangePass' 20:58:47
1. open on http://localhost/manager/View/changePass.php OK 20:58:48
2. setWindowSize on 697x768 OK 20:58:49
3. click on id=mypass OK 20:58:51
4. type on id=mypass with value Sarkeranindo1@ OK 20:58:52
5. click on id=mypass1 OK 20:58:54
6. type on id=mypass1 with value Sarkeranindo1@ OK 20:58:55
7. click on name=update OK 20:58:56
'TestChangePass' completed successfully 20:58:57
  
```

Test Code:

```
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;

public class TestChangePassTest {
    private WebDriver driver;
    private Map<String, Object> vars;
    JavascriptExecutor js;
    @Before
    public void setUp() {
        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        vars = new HashMap<String, Object>();
    }
    @After
    public void tearDown() {
        driver.quit();
    }
    @Test
    public void testChangePass() {
        driver.get("http://localhost/manager/View/changepass.php");
        driver.manage().window().setSize(new Dimension(697, 768));
        driver.findElement(By.id("mypass")).click();
        driver.findElement(By.id("mypass")).sendKeys("Sarkeranindol@");
        driver.findElement(By.id("mypass1")).click();
        driver.findElement(By.id("mypass1")).sendKeys("Sarkeranindol@");
        driver.findElement(By.name("update")).click();
    }
}
```

Test Case for Update Profile

Project Name: Tourist Management System			Test Designed by: Iftier	
Test Case_ID: TMS_6			Test Designed date: 13/11/2023	
Test Priority (Low,Medium,High): Medium			Test Executed by: Iftier	
Test Title: Edit Profile test			Test Execution date: 13/11/2023	
Description: Test the edit profile page.				
Precondition: Dependencies: if any				
Test Steps	Test Data	Expected Results	Actual Result	Status (Pass/Fail)
1. Go to the 2. Edit profile site. 3. Edit the information where want to change. 4. Click save button.	F_name: Anindita L_name: Sarker Gender: Male Dob:2000-11-15 Address: dhaka Username: sarkeranindo Phone:01722045698 Email: sarkeranindo@gmail.com Password: Sarkeranindo1@	Manager can edit his profile.	As Expected,	Pass

Selenium:

Project: testProject

Tests

Search tests...

Run current test Ctrl+R

View/edit.php

✓ TestForgottenPassword

✓ TestAddEmployee

✓ TestChangePass

✓ TestEditProfile*

✓ TestLog

✓ TestReg

	Command	Target	Value
5	✓ click	name=L_name	
6	✓ type	name=L_name	Roy
7	✓ click	name=u_mobile	
8	✓ type	name=u_mobile	01822839304
9	✓ click	name=update	

Command

Target

Value

Description

Log

Reference

Running Tests on remote

1. open on http://localhost/manager/View/edit.php OK

2. setWindowSize on 697x768 OK

3. click on id=f_name OK

4. type on id=f_name with value Anindita OK

5. click on name=L_name OK

6. type on name=L_name with value Roy OK

7. click on name=u_mobile OK

8. type on name=u_mobile with value 01822839304 OK

9. click on name=update OK

TestEditProfile* completed successfully

Test Code:

```
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;

public class TestEditProfileTest {
    private WebDriver driver;
    private Map<String, Object> vars;
    JavascriptExecutor js;
    @Before
    public void setUp() {
        driver = new ChromeDriver();
        js = (JavascriptExecutor) driver;
        vars = new HashMap<String, Object>();
    }
    @After
    public void tearDown() {
        driver.quit();
    }
    @Test
    public void testEditProfile() {
        driver.get("http://localhost/manager/View/edit.php");
        driver.manage().window().setSize(new Dimension(697, 768));
        driver.findElement(By.id("f_name")).click();
        driver.findElement(By.id("f_name")).sendKeys("Anindita");
        driver.findElement(By.name("l_name")).click();
        driver.findElement(By.name("l_name")).sendKeys("Roy");
        driver.findElement(By.name("u_mobile")).click();
        driver.findElement(By.name("u_mobile")).sendKeys("01822839304");
        driver.findElement(By.name("update")).click();
    }
}
```