

American International University-Bangladesh (AIUB)

Department of Computer Science Faculty of Science & Technology (FST) Spring 21 22

Section: C
Software Quality Assurance and Testing
Organizational Website Testing

A Report submitted By

SN	Student Name	Student ID
1	Hoque, Tahsinul	18-37883-2
2	Mahamud-Un-Nabi	18-37013-1

Under the supervision of

Abhijit Bhowmik

Associate Professor and Special Assistant of OSA, AIUB

Software Test Plan

for

<Organization Website>

Version 1.0 approved

Prepared by <Hoque, Tahsinul>

<Mahamud-Un-Nabi>

<American International University-Bangladesh (AIUB)>

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Revision History

Revision	Date	Updated by	Update Comments
0.1	22.04.2022	Hoque, Tahsinul	First Draft
0.2	22.04.2022	Mahamud-Un-Nabi	Second Draft
0.3	23.04.2022	Hoque, Tahsinul	Final Draft

1. TEST PLAN IDENTIFIER: ACC-u-1

2. REFERENCES

(Selenium Tutorial - javatpoint, 2022) www.javatpoint.com. 2022. Selenium Tutorial - javatpoint.
 [online] Available at: https://www.javatpoint.com/selenium-tutorial> [Accessed 19 April 2022].

3. INTRODUCTION

Background to the Problem

Now a days every educational institution has their own website. Almost all universities have different kinds of clubs and its own website. Most importantly the Computer Club, Art Club, Social Well fare club etc. are very active clubs in every university. Among them the computer club of AIUB is one of the most active and well-known clubs for its different events and competition organized by the members. The active web-site of AIUB computer club has many operational stuffs. Through the www.aiubcc.org website students and other club members are able to communicate, deliver event notices, gather information and show their event works and uphold the other activities of AIUB computer club.

Solution to the Problem

Since the importance of the computer club and its website is very high therefore it needs to be able to function properly and deliver the performance and must be able to handle the user engagements properly. To make sure of all the important check boxes are ensured, it needs to be tested properly. So here the system and its software testing method have been discussed as a solution of how the website will be able to perform accordingly.

4. REQUEIREMNT SPECIFICATION

4.1 SYSTEM FEATURES:

The system's functional requirements are the system's requirements that describes the system's basic functionalities.

- 1. Homepage: From the Home Page user can get access to all contents of the site
- **2. Events:** User can check for recent or former events from events section.
 - 2.1 CS Fest
 - 2.2 Cyber Gaming Fest
 - 2.3 JARVIS -Intra Acc Carnival
- 3. Community: User can directly get in contact with the executive committee members
- **4. <u>Links:</u>** From the bottom of the site user can get access to the ACC's Facebook, YouTube and LinkedIn page to get connected over there for more information and contents.
- **5.** <u>Teams:</u> From this section user can more information about ACC Development Team, Media Team, Design Team, Event Organizer Team, Public Relation Team, ECPP Crew.
- 6. **People:** Here user can get information about committee members, advisors, OSA, executive members.
- 7. About: The main motto and achievements are shown.
- 8. Contacts: User can send their feedback via sending messages through website's feedback option.

4.2 System Quality Attributes

Some of the quality attributes of the website have been shown here:

<u>Performance efficiency:</u> time behavior, resource utilization, capacity;

Reliability: maturity, availability, fault tolerance, recoverability;

<u>Usability:</u> appropriateness, recognizability, learnability, operability, user error protection, user interface aesthetics, accessibility;

Security: confidentiality, integrity, non-repudiation, accountability, authenticity;

Compatibility: co-existence, interoperability;

Maintainability: modularity, reusability, analyzability, modifiability, testability;

<u>Portability:</u> adaptability, install ability, replace ability.

4.3 Project Requirements

<u>Resource:</u> There will be multiple resources needed. Front end programmer, Back-end programmer, Tester, Computers, Software etc.

<u>Time:</u> Total time will be required approximately 1 month.

<u>COST</u>: Total cost for the testing project is \$79000

Software Requirements:

- o Microsoft Word
- o Microsoft Visual Studio
- o Microsoft Project 2020
- o Selenium

. Hardware Requirements:

- o Desktop with minimum core i5-3.4 GHz
- o 8GB of RAM
- o SSD

Estimated costing:

	Α	В	С
1	Resource (Name	Cost
2	Tester 1		\$10,000
3	Tester 2		\$15,000
4	Project ma	anager	\$15,000
5	Frontend (Developer	\$12,000
6	Backend Developer		\$15,000
7	Sodftware		\$7,000
8	Hardware		\$20,000
9			
10	Net:		\$79,000
11			

5. FEATURES NOT TO BE TESTED

Item not to be tested is defined as which of the features of the system or sub-system will NOT be testing. This is necessary so as to avoid later confusion when stakeholders thought something would be tested, but was not. There are some features that are in my project which does not need to be tested.

Design: This is not a permanent pattern of our system. If we need to change the design of the system, it can be done easily.

Not to be included in this release of the Software: We do not need to test these types of features and functionalities

Out of scope features: This is functions which are planned to be done, but they are not required on the first stages. Usually, these auxiliary functions are written for specialists to understand how the customer sees the system (application) in the future. What has not yet been created is not yet possible to test.

Low- risk features: Each feature has some type of risk. But testing every risk is not time consuming for us. That's why we need to be test the riskiest features first.

6. TESTING APPROACH

6.1 Testing Levels

A level of software testing is a process where every unit or component of a software or system is tested. In Software Engineering, four main levels of testing are Unit Testing, Integration Testing, System Testing and Acceptance Testing.

Unit Testing: Tests a small software unit at a time, which is typically performed by the individual programmer who implemented the unit prior to Integration testing checks if software components are fulfilling functionalities or not.

Integration Testing: System integration testing (SIT) is a systematic technique for assembling a software system while conducting tests to uncover errors associated with interfacing the modules. Checks the data flow from one module to other modules.

System Testing: evaluates both functional and non-functional needs for the testing.

Acceptance Testing: checks the requirements of a specification or contract are met as per its delivery.

Dataflow Testing: Data Flow Testing is a specific strategy of software testing that focuses on data variables and their values. It makes use of the control flow graph.

6.2 Test Tools

For Project Management, Microsoft Excel, Trello and Microsoft Word were used. For automated testing, we used Selenium, Eclipse IDE.

Step 1: firstly, we gave JAVA setup.



Fig: 1

Step 2: Then we installed Eclipse

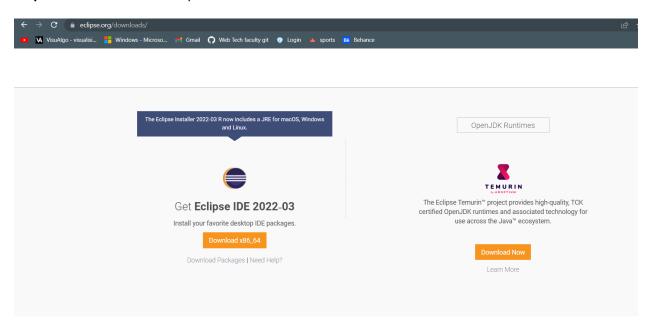


Fig: 2

Step 3: Setting up selenium for JAVA

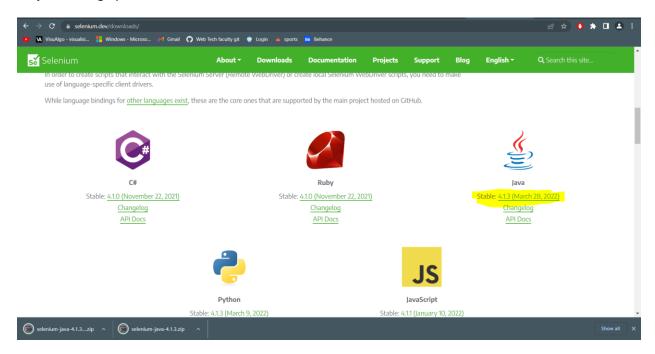


Fig: 3

Step 4: setting up selenium web driver

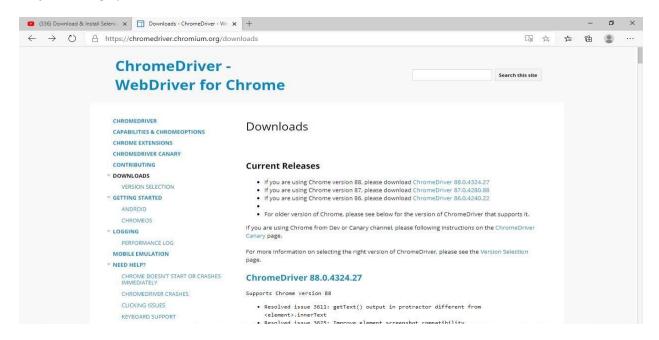


Fig: 4

Step 5: Necessary installation

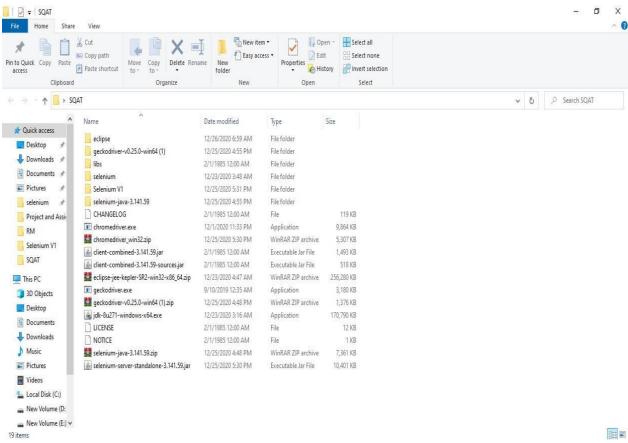


Fig: 5

Step 6: starting project

Step 6.1: creating project

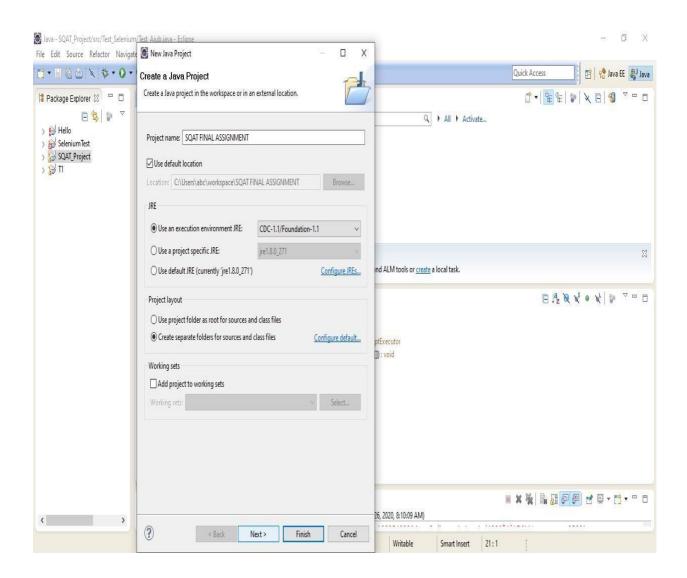


Fig: 6

Step 6.2: Adding JARs to library in Eclipse

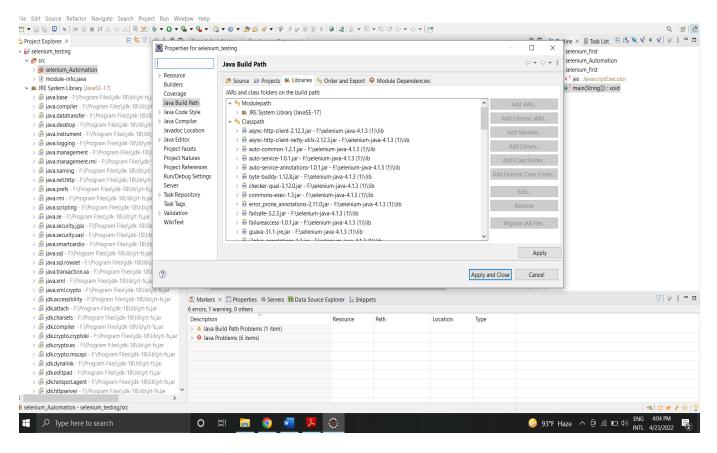
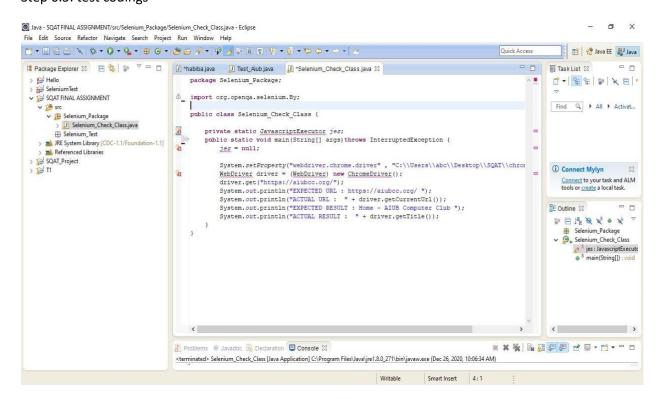


Fig: 7

Step 6.3: test codings



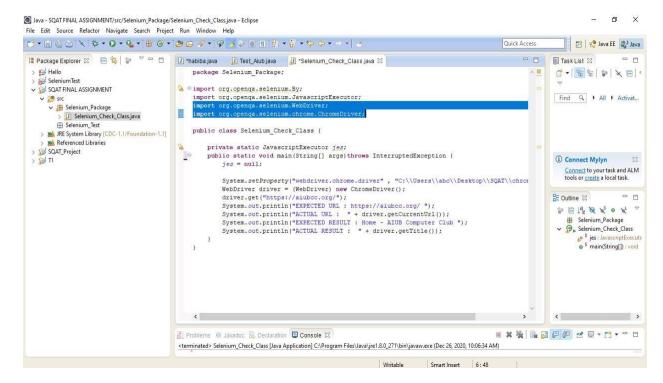


Fig: 9

A demo code:

package Selenium Package;

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

jes = null; System.setProperty("webdriver.chrome.driver",

```
"C:\\Users\\abc\\Desktop\\SQAT\\chromedriver.exe"); WebDriver driver =
(WebDriver) new ChromeDriver();
driver.get("https://aiubcc.org/");
                 System.out.println("EXPECTED URL: https://aiubcc.org/");
                 System.out.println("ACTUAL URL:
                                                                                            " + driver.getCurrentUrl());
                 System.out.println("EXPECTED RESULT: Home - AIUB Computer Club");
                 System.out.println("ACTUAL RESULT:
                                                                                            " + driver.getTitle());
Java EE - SQAT FINAL ASSIGNMENT/src/Selenium_Package/Selenium_Check_Class.java - Eclipse
                                                                                                                                                                 O
File Edit Source Refactor Navigate Search Project Run Window Help
🖺 🤮 Java EE
                             - 8
 Project Explorer 🛭
                                      ₽ Outline ₩ Task List
                                                                                                                             ٨
                      日名
                                                                                                                                                  # Selenium Package
 > 🔛 Hello
                                              public static void main(String[] args)throws InterruptedException {
  > 🔒 Selenium Test

▼ Selenium_Check_Class

                                                                                                                                           🏚 S jes : JavascriptExecutor
  V 🔓 SQAT FINAL ASSIGNMENT
                                                                                                                                           @ S main(String[]): void

→ 

## src

      ∨ Æ Selenium_Package
                                                  System.setProperty("webdriver.chrome.driver" , "C:\\Users\\abc\\Desktop\\S
         Selenium_Check_Class.java
                                                  WebDriver driver = (WebDriver) new ChromeDriver();
            > 🖟 Selenium_Check_Class
                                                  driver.get("https://aiubcc.org/");
                                                  System.out.println("EXPECTED URL : https://aiubcc.org/ ");
         ∰ Selenium Test
                                                  System.out.println("ACTUAL URL : " + driver.getCurrentUrl());

    JRE System Library [CDC-1.1/Founda

                                                  System.out.println("EXPECTED RESULT : Home - AIUB Computer Club ");
      > resources.jar - C:\Program Files\U
> rt.jar - C:\Program Files\Java\jre1
                                                  System.out.println("ACTUAL RESULT : " + driver.getTitle());
      > 👼 jsse.jar - C:\Program Files\Java\jr
       > 👼 jce.jar - C:\Program Files\Java\jre
      > darsets.jar - C:\Program Files\Ja
        ifr.jar - C:\Program Files\Java\jre
        access-bridge-64.jar - C:\Program
                                                                                                                                 📱 Markers 🔲 Properties 🚜 Servers 🏙 Data Source Explorer 🖺 Snippets 💂 Console 🛭
        cldrdata.jar - C:\Program Files\Ja
                                      <terminated> Selenium_Check_Class [Java Application] C:\Program Files\Java\jre1.8.0_271\bin\javaw.exe (Dec 26, 2020, 10:25:35 AM)
      > 🖥 dnsns.jar - C:\Program Files\Java
        jaccess.jar - C:\Program Files\Jav
                                      Starting ChromeDriver 87.0.4280.88 (89e2380a3e36c3464b5dd1302349b1382549290d-refs/branch-heads/4280@(#1761}) on port 18333
                                      Only local connections are allowed.
      > 👼 jfxrt.jar - C:\Program Files\Java\ji
                                      Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
      > Glocaledata.jar - C:\Program Files\
                                      ChromeDriver was started successfully.
      > anashorn.jar - C:\Program Files\Ja
                                      Dec 26, 2020 10:25:40 AM org.openga.selenium.remote.ProtocolHandshake createSession
      > 👼 sunec.jar - C:\Program Files\Java
                                      INFO: Detected dialect: W3C

    sunjce_provider.jar - C:\Program
    sunmscapi.jar - C:\Program Files'

                                      EXPECTED URL : https://aiubo
                                        CTUAL URL : https://aiubcc.org/
XPECTED RESULT : Home - AIUB Com
      > sunpkcs11.jar - C:\Program Files\
> zipfs.jar - C:\Program Files\Java\j
    > a selenium-server-standalone-3.141.59
      debug.log
  > SQAT_Project
                                                                                                              Smart Insert 23:6
```

Fig: 10

EXPECTED URL : https://aiubcc.org/ URL : https://aiubcc.org/

EXPECTED RESULT : Home - AIUB Computer Club ACTUAL RESULT : Home - AIUB Computer Club

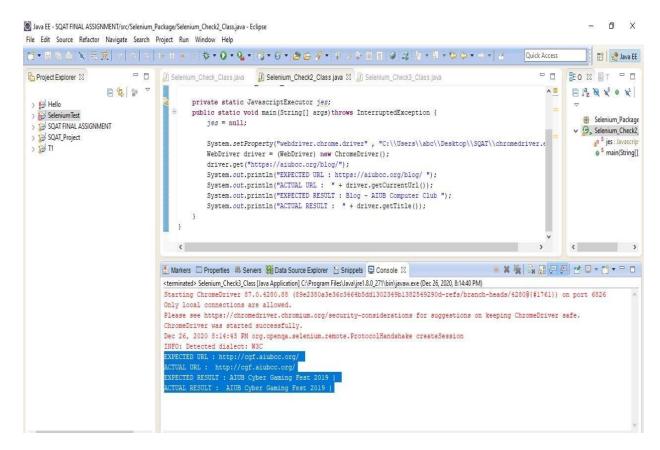


Fig: 11

EXPECTED URL : http://cgf.aiubcc.org/ ACTUAL URL : http://cgf.aiubcc.org/

EXPECTED RESULT : AIUB Cyber Gaming Fest 2019 | ACTUAL RESULT : AIUB Cyber Gaming Fest 2019 |

6.3 Meetings

The test team will meet once every two weeks to evaluate progress to date and to identify error trends and problems as early as possible. The test team leader will meet with development and the project manager once every two weeks as well. These two meetings will be scheduled on different weeks. Additional meetings can be called as required for emergency situations.

7. TEST CASES

7.1: Test Case 01

Project Name: Organization website			Test Designed by: Tahsinul Hoque		
Test Case ID: 0-1			Test Designed date: 20/4/2022		
Test Priority (Low, Medium, High): High				Executed by: TBA (Tw	
(2011)				•	. Manual
					.Automated)
Module Name: org homepage			Test	Execution date: 20/4/	
Test Title: loading hor				, , ,	
	whether user will get t	to the right			
	ing the url by searchin	_			
google	,				
Precondition: Have to search in google writing the full name of			ne of t	he organization	
				-	
Dependencies: None					
Test Steps	Test Data	Expected Res	ults	Actual Results	Status
					(Pass/Fail)
# Go to Google	URL:	# Two Types		URL:	Pass
search-bar	https://aiubcc.org/	1.After clickir	ng it	https://aiubcc.org/	
# Search for the		will take to A	IUB		
AIUB Computer		Computer Clu	ıbs		
Club		homepage.			
# Click on the first	on the first 2. It will show		/		
link found withing		error: page n	ot		
the matched name		found			
Post Condition: The lo	pading time should be	minimum.			

7.2: Test Case 02

Project Name: Organization website	Test Designed by: Tahsinul Hoque
Test Case ID: O-2	Test Designed date: 20/4/2022
Test Priority (Low, Medium, High): High	Test Executed by: TBA (Two types :
	1. Manual
	2.Automated)
Module Name: contacts	Test Execution date: 20/4/2022
Test Title: executive contacts	
Description: To test, whether user can easily	
executives of the organization through website.	
Precondition: Have to go to organization's website th	en found the list of executives under people tab.
Dependencies: None	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fai I)			
# Go to AIUB Computer Clubs website # Under people tab go to 'Executive Committee' # Click on the photo of the executive you want to contact.	After clicking URL: https://www.linkedin. com/in/abrar-rafid- 4a618a175	# Two Types 1.After clicking on the photo it will take to the executive's LinkedIn account 2. It will show error: page not found	URL: https://www.linkedin. com/in/abrar-rafid- 4a618a175/	Pass			
Post Condition: Upo	Post Condition: Updated LinkedIn profile should be linked of every executive.						

7.3: Test Case 03

Project Name: Organization website		Test Designed by: Tahsinul			
			Hoque		
Test Case ID: O-3			Test Designed date: 2	Test Designed date: 20/4/2022	
Test Priority (Low, Med	dium, High): Medium		Test Executed by: TB	A (Two	
			types:		
				1.	
			Manual		
			2.Automated)		
Module Name: org link			Test Execution date:	20/4/2022	
Test Title: linking Facel					
	hether user can land on offic	cial Facebook			
page from website.					
Precondition: to go to	organization's website and f	ind the Facebook	logo		
Dependencies: None		T	T	Π_	
Test Steps	Test Data	Expected Resul	ts Actual Results	Status	
# C AH ID			LIBI	(Pass/Fail)	
# Go to AIUB	URL:	# Two Types	URL:	Pass	
Computer Club's	https://www.facebook.c	1.After clicking	-		
website	om/aiubcomputerclub	will take to AIU	,		
# Scroll down to		Computer Club	•		
# Click on the			JK		
Facebook logo to		page. 2. It will show			
land on ACC's official		error: site can't			
Facebook page.		be reach			
	ı ading time should be minimu	l .		<u>l</u>	
rost condition. The loa	ading time should be millimit	AIII.			

7.4: Test Case 04

Duciost Noves Organization website	1	Toot Designed by Tal	ا د مانه
Project Name: Organization website	Test Designed by: Tahsinul		
T 10 10 0 1	Hoque		
Test Case ID: O-4		Test Designed date: 2	
Test Priority (Low, Medium, High): Medium		Test Executed by: TB	A (Two
		types :	
			1.
		Manual	
		2.Automated)	
Module Name: org links		Test Execution date:	20/4/2022
Test Title: linking LinkedIn			
Description: To test, whether user can land on	official LinkedIn		
page from website.			
Precondition: to go to organization's website a	and find the LinkedIn lo	ogo from bottom	
Dependencies: None			
Test Steps Test Data	Expected Results	Actual Results	Status
			(Pass/Fail)
# Go to AIUB URL:	# Two Types	URL:	Pass
Computer Club's https://www.linkedin	1.After clicking it	https://www.lin	
website .com/company/1324	will take to AIUB	kedin.com/comp	
# Scroll down to 8569/admin/	Computer Club's	any/13248569/a	
bottom	official LinkedIn	dmin/	
# Click on the	page.		
LinkedIn logo to land	2. It will show error:		
on ACC's official	site can't be reach		
Facebook page.			
Post Condition: The loading time should be min			

7.5: Test Case 05

Project Name: Organization website	Test Designed by: Tahsinul
	Hoque
Test Case ID: O-5	Test Designed date: 20/4/2022
Test Priority (Low, Medium, High): Medium	Test Executed by: TBA (Two
	types:
	1.
	Manual
	2.Automated)
Module Name: org links	Test Execution date: 20/4/2022
Test Title: linking YouTube	
Description: To test, whether user can land on official YouTube	
channel from website.	

Precondition: to go to organization's website and find the YouTube logo from bottom						
Dependencies: None						
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)		
# Go to AIUB	URL:	# Two Types	URL:	Pass		
Computer Club's website # Scroll down to bottom # Click on the YouTube logo to land on ACC's official YouTube channel.	https://www.youtub e.com/channel/UCBIf m4pC8AakHRjeFzV60 EA	1.After clicking it will take to AIUB Computer Club's official LinkedIn page. 2. It will show error: site can't be reach	https://www.yo utube.com/chan nel/UCBIfm4pC8 AakHRjeFzV60E A/			
Post Condition: The loading time should be minimum.						

7.6: Test Case 06

Project Name: Organization website			Test Designed by: Tahsinul	
			Hoque	
Test Case ID: O-6			Test Designed date: 2	21/4/2022
Test Priority (Low, Med	lium, High): high		Test Executed by: TB	A (Two
			types:	
				1.
			Manual	
			2.Automated)	
Module Name: event p			Test Execution date:	21/4/2022
Test Title: events page	landing			
•	hether user can land on	other sub websites		
for different events.				
Precondition: to go to	organization's website a	nd go to events section	n.	
Dependencies: None				
Test Steps	Test Data	Expected Results	Actual Results	Status
				(Pass/Fail)
# Go to AIUB	URL:	# Two Types	URL:	Pass
Computer Club's	https://www.csfest.a	1.After clicking it	https://www.csf	
website	iubcc.org/	will take to AIUB	est.aiubcc.org/	
# Scroll down and		Computer Club's		
find 'Our Events'		official CS Fest		
section in the home		webpage.		
page		2. It will show error:		
# Click on the Event		site can't be reach		
you want to go, in				

this case AIUB CS							
Fest							
Post Condition: The loading time should be minimum.							

7.7: Test Case 07

Project Name: Organiza	Test Designed by: Tahsinul								
	Hoque								
Test Case ID: O-7	Test Designed date: 21/4/2022								
Test Priority (Low, Med	Test Priority (Low, Medium, High): high								
			types:						
				1.					
			Manual						
			2.Automated)						
Module Name: event p	oage		Test Execution date:	21/4/2022					
Test Title: events page	landing								
Description: To test, w	hether user can land on	other sub websites							
for different events.									
Precondition: to go to	organization's website a	nd go to events section	on.						
		_							
Dependencies: None									
Test Steps	Test Data	Expected Results	Actual Results	Status					
•		•		(Pass/Fail)					
# Go to AIUB	URL:	# Two Types	URL:	Pass					
Computer Club's	https://cgf.aiubcc.org	1.After clicking it	https://cgf.aiubc						
website	/	will take to AIUB	c.org/						
# Scroll down and	•	Computer Club's	<i>J.</i>						
find 'Our Events'		official Cyber							
section in the home		Gaming Fest page.							
page		:							
# Click on the Event									
you want to go, in									
this case AIUB Cyber									
Gaming Fest									
	iding time should be mir	nimum.	L	I .					

7.8: Test Case 08

Project Name: Organiz	Test Designed by: Tahsinul								
	Hoque								
Test Case ID: O-7		Test Designed date: 21/4/2022							
Test Priority (Low, Med	dium, High): high		Test Executed by: TBA (Two						
			types:						
			1.						
			Manual						
			2.Automated)						
Module Name: event p			Test Execution date:	21/4/2022					
Test Title: events page	•								
	hether user can land on	other sub websites							
for different events.									
Precondition: to go to organization's website and go to events section.									
Dependencies: None									
Test Steps	Test Data	Expected Results	Actual Results	Status					
				(Pass/Fail)					
# Go to AIUB	URL:	# Two Types	URL:	Pass					
Computer Club's	https://jarvis.aiubcc.	1.After clicking it	https://jarvis.aiu						
website	org/	will take to AIUB	bcc.org/						
# Scroll down and		Computer Club's							
find 'Our Events'		official JARVIS's							
section in the home									
page		2. It will show error	:						
# Click on the Event		site can't be reach							
you want to go, in									
this case JARVIS									
Post Condition: The loa	ading time should be mi	nimum.							

8. ITEM PASS/FAIL CRITERIA

The test process is executed in an organization website where different actions are tested. For example, one test was to if there is way to contact authorities from website, Now if the user can successfully find a way to contact the test can be taken as passed. Like this if the test action matches our expected action the test is taken as passed otherwise fail.

9. TEST DELIVERABLES

Test Deliverables are the artefacts which are given to the stakeholders of software project during the software development lifecycle. There are different test deliverables at every phase of the software development lifecycle.

- Acceptance test plan
- System/Integration test plan
- Unit test plans/turnover documentation
- Screen prototypes
- Report mock-ups
- Defect/Incident reports and summaries
- Test logs and turnover reports
- Test Environment (Hardware and Database are required)
- Test Cases
- Test Data Sets
- Test Strategy
- Test Defect Reports
- Test Results

10. STAFFING AND TRAINING NEEDS

In order to test our system feature and functionality and to make this system perfect we need to assign a testing team. Then we will arrange a training session. In this training session we will give some instruction to testing team. We will train them about following:

- We will ask them to analyze about our system
- We will describe our system feature and functionality
- Our testing criteria
- Test item pass fail criteria according to our system future and functionality
- · Acceptance criteria from user point of view
- All Stakeholder's expectations from our system
- What feature to test and what not
- Testing tool to use
- Training about automated testing

We have to train the testing team about all mentioned above to make a better understanding among them about our system.

11. RESPONSIBILITIES

	TM	PM	Dev Team	Test Team	Client
Acceptance test Documentation & Execution	X	X		X	X
System/Integration test Documentation & Exec.	X		X	X	
Unit test documentation & execution	X		X	X	
System Design Reviews	X	X	X	X	X
Detail Design Reviews	X	X	X	X	
Test procedures and rules	X	X	X	X	
Screen & Report prototype reviews			X	X	X
Change Control and regression testing	X	X	X	X	X

12. TESTING SCHEDULE

Time has been designated inside the venture arrange for the taking after testing exercises. The particular dates and times for each action are characterized within the extended arrange timeline. The people required for each process are detailed within the venture timeline and arrange as well.

Task Name	Duration	Start	Finish	Ma	ar 27,	'22			A	or 3,	'22				Ар	r 10,	'22				Apr	17, '	22			Apr	24, '2
				S	M.	T W	T	FS	S	M	T	WI	F	S	S	M	TW	T	F	S	SI	1 T	W	TF	: §	S	MT
Requirements Gathering	3 days	Mon 3/28/22	Wed 3/30/22	2			<u>L</u>			Г																	
Test Plan	3 days	Thu 3/31/22	Mon 4/4/22	2							Ь																
Manual Testing	2 days	Tue 4/5/22	Wed 4/6/22	2						П																	
Automated Testing	6 days	Thu 4/7/22	Thu 4/14/22	2								Ĭ							h								
Integration	2 days	Fri 4/15/22	Mon 4/18/22	2																							
ReTest	2 days	Tue 4/19/22	Wed 4/20/22	2																				1			
Documentation	3 days	Thu 4/21/22	Mon 4/25/22	2																							

13. PLANNING RISKS AND CONTINGENCIES

If the test staffs are not available at the specified time frame, then the progression of the project might slow down and delay the launch date of the system. Should there be a shortage of test staff, the team lead may take that role with a representative from the stakeholder's side to perform the acceptance testing. Also, the testing software can unexpectedly crash or there could have been a problem or mistakes in set-up. The product will not be ready for delivery until all the objectives are met.

14. APROVALS

Project sponsor	
Development management	
EDI Project manager	
RS Test manager	
RS dev. Team management	
Reassigned sales	
Order Entry EDI Team manager	