



Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Summer, Year: 2022), B.Sc. in CSE (Day)

LAB REPORT NO. 01

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

Lab Experiment Name: Design a test case for GMAIL web site for doing a usability and integrity testing.

Student Details

Name		ID
1.	Md Majbahul Islam	191002157

Lab Date : 4/07/2022
Submission Date : 12/09/2022
Course Teacher's Name : Md. Rajibul Palas

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

<u>Lab Report Status</u>	
Marks:	Signature:
Comments:	Date:

1. TITLE OF THE LAB EXPERIMENT

Design a test case for GMAIL web site for doing a usability and integrity testing.

2. OBJECTIVES/AIM

- To be familiar with software Operation factor.

3. PROCEDURE / ANALYSIS / DESIGN

Software Integrity:

Integrity requirements deal with the software system security, that is, requirements to prevent access to unauthorized persons, to distinguish between the majority of personnel allowed to see the information (“read permit”) and a 403 Software quality factors limited group who will be allowed to add and change data (“write permit”),and so forth.

Characteristics of software Integrating Testing

- Data compatibility with older version of OS is ensured.
- It checks while verifying data in data tables, it is altered or not.
- It examines all data whether it is successfully save, delete, modify to Database or not.
- It checks whether individual user has access to other users details or not.
- Also helps in analyzing blank value or default value whether it can be retrieved from Database or not.
- Any user can access their account using wrong password/ID or not.
- It also includes different types of security test.

Software Usability:

Usability Testing also known as User Experience (UX) Testing, is a testing method for measuring how easy and user-friendly a software application is. A small set of target end-users, use software application to expose usability defects. Usability testing mainly focuses on user’s ease of using application, flexibility of application to handle controls and ability of application to meet its objectives.

The goal of this testing is to satisfy users and it mainly concentrates on the following parameters of a system:

The effectiveness of the system

- Is the system is easy to learn?
- Is the system useful and adds value to the target audience?
- Are Content, Color, Icons, Images used are aesthetically pleasing?

Efficiency:

- Little navigation should be required to reach the desired screen or webpage, and scrollbars should be used infrequently.
- Uniformity in the format of screen/pages in your application/website.
- Option to search within your software application or website.

Accuracy:

- No outdated or incorrect data like contact information/address should be present.
- No broken links should be present.

User Friendliness


- Controls used should be self-explanatory and must not require training to operate
- Help should be provided for the users to understand the application/website
- Alignment with the above goals helps in effective usability testing

4. IMPLEMENTATION

Name of the Tester: Md Majbahul Islam		Tested Date: 10/9/2022		Testing case Status/pass/fail/Not		6/6/		
Test Execution Steps								
Serial No.	Test Case ID	Scenario	Action	Input	Expected Result	Actual Result	Status	Comments
1	TC_01	Testing login functionality of Gmail	Open www.gmail.com into web browser	www.gmail.com	Gmail Home page Opened	Gmail Home page Opened	Pass	
2	TC_02	Testing login functionality of Gmail	Type invalid gmail id	invalidmajba@gmail.com	Couldn't Find Your Google Account	Couldn't Find Your Google Account	Pass	
3	TC_03	Testing login functionality of Gmail	Type valid gmail	validmajbahia@gmail.com	Showing Password Section	Showing Password Section	Pass	
4	TC_04	Testing login functionality of Gmail	Click Next Button		Showing Password Section	Showing Password Section	Pass	
5	TC_05	Testing login functionality of Gmail	Type Wrong password	Wrong pass: 1234656	Wrong Password	Wrong Password	Pass	
6	TC_06	Testing login functionality of Gmail	Type right password	Right pass: Majahi...jkkkj.??	Singing in Page	Singing in Page	Pass	

Output:

1. Go to web page: www.gmail.com



Sign in

to continue to Gmail


Email or phone

[Forgot email?](#)

Not your computer? Use Guest mode to sign in privately.
[Learn more](#)

[Create account](#)[Next](#)

2. Type invalid gmail id:




Sign in

Use your Google Account

Email or phone

majba@gmail.com

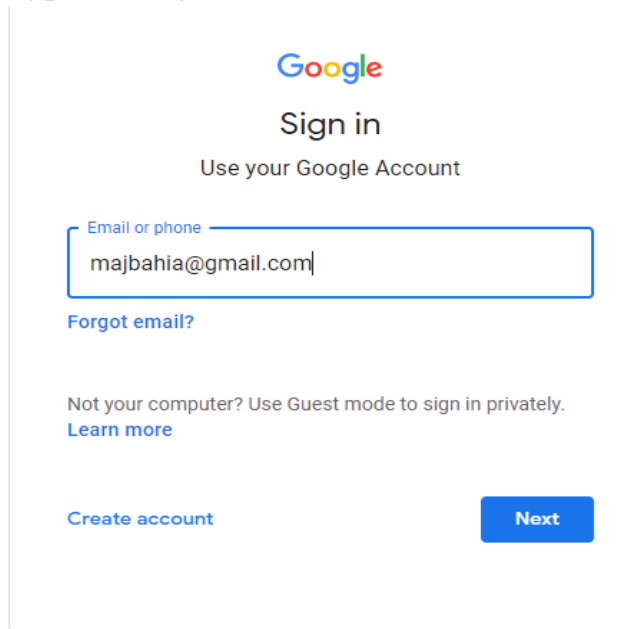
 Couldn't find your Google Account

[Forgot email?](#)

Not your computer? Use Guest mode to sign in privately.
[Learn more](#)

[Create account](#)[Next](#)

3. Type valid gmail:



Google

Sign in

Use your Google Account

Email or phone

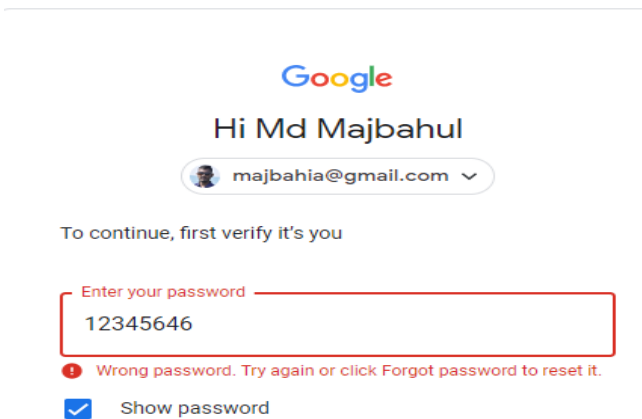
majbahia@gmail.com

[Forgot email?](#)

Not your computer? Use Guest mode to sign in privately.
[Learn more](#)


[Create account](#) [Next](#)

4. Type Wrong password:



Google


Hi Md Majbahul

 majbahia@gmail.com

To continue, first verify it's you

Enter your password

12345646

 Wrong password. Try again or click [Forgot password](#) to reset it.

☒ Show password

5. Type right password:

