Module 5- Computer Systems (2021-22)

Project

UNIVERSITY OF TWENTE.

Software Testing Document (STD) Template

Team ID:	Project Name:
Team members:	Mentor (s):

Instructions:

1. Refer to the below table and complete all the sections with clarity.

2. Select those test strategies that are applicable to test your application.

3. Make sure to refer to the "Development-Security by Design Checklist" to see the possible vulnerabilities in your application.

4. Feel free to add features and test cases in the table that are essential to test your application.

5. You can use Selenium, SonarQube, and/or GitLab CI/CD to perform source code review, static and dynamic application testing, etc.

Test Strategy	Date (When did you perform the testing?)	Process/Function (Features to be tested)	Test Case	Step	Description	Status (Passed/Failed /Open)	Expected Results	Actual Result	Mitigation plan/Solutions	Review on the Mitigation plan (Passed/Failed)	Remarks on the Failed mitigation plan
Example: Application Testing/API Testing/Acceptance Testing, Manual Testing, etc.		**Example 1:** Authentication	**Example:** Logging In	1	**Example 1**: The correct user ID and password should be entered.	**Failed**	**Example 1:** User should access the home page.	User directed to another page.	**Example 1:** i) Check if there is any connection issues between the home page and its sub page. ii) Check if there is any design issue., iii) Check if this test case is not passed with a particular user, etc.	**Passed**	...
...		...	...	2	The length of the password should be of n characters	**Passed**	**Example 1:** The password is strong.	...	...	...	...
...		**Example 2:** Accounting	**Example 2:** Billing	1	**Example 2:** Customer delivery (online) can be selected.	**Failed**	**Example 2:** The delivery can be searched for the customer.	Unable to search delivery.	...		
...		...	...	2	Print invoice	**Open**	**Example 2:** Invoice is printed correctly.	...	...		

Note: Refer to the following documentation on GitLab and SonarQube for clarity-

1. Source Code review with SonarQube: **https://docs.sonarqube.org/latest/**

2. GitLab integration with SonarQube: **https://docs.sonarqube.org/latest/analysis/gitlab-integration/**

3. SonarQube (Static Application Testing): **https://www.sonarqube.org/features/security/**

4. Gitlab (Static Application Testing): **https://docs.gitlab.com/ee/user/application_security/sast/**

5. GitLab (Dynamic Application Testing): **https://docs.gitlab.com/ee/user/application_security/dast/**

Prepared by:

Dipti K. Sarmah (Project Coordinator)