

# Testing Plan Report

1. Validation Test .....	3
A. Functional Requirements .....	3
B. Non-functional Requirements .....	5
I. Product Requirement.....	5
II. Organizational Requirement .....	6
III. External Requirement .....	6
2. Defect Test .....	7

# 1. Validation Test

## A. Functional Requirements

Requirements	Flows & Conditions	Testing Result	Status
User Authentication	1. wrong Username & wrong password	return to login page	pass
Student Profiles	1. view profile	Profile display on main page	pass
	2. update phone number	New phone number updated and displayed	pass
	3. update email	New email updated and displayed	pass
Attendance Tracking	1. take attendance (not taken)	Display message and update attendance	pass
	2. take attendance (taken)	Display message	pass
	3. view attendance record with selected month	Display table of attendance record	pass
Grading and Transcripts	1. teacher update grade with selected student	Updated student grade	pass
	2. student view their grades	Display grades on difference class	pass
Course Management	1. admin register student into program	Student created in database	pass
	2. admin register teacher	Student created in database	pass
	3. admin create program with selected teacher as program leader	Program created and teacher is assigned to be program leader	pass
	4. admin switch program leader	Program leader updated	pass
	5. program leader create course with selected teacher as course leader	Course created and teacher is assigned to be course leader	pass
	6. program leader switch course leader	Course leader updated	pass
	7. course leader create class with selected teacher	Class created and teacher is assigned to teach class	pass

	8. course leader enroll student into class	Students are enrolled into class	pass
	9. teachers view student score	Display a list of student from different class	Pass
	10. teachers compute student score	Student score updated	pass
	11. students view score	Display table of student score of different class	pass

## B. Non-functional Requirements

### I. Product Requirement

#### a. Hardware Requirements

Users can access the system using computers or mobile devices.

-> Pass, User can access the system through browser.

#### b. Software Requirements

A database is required to store information

-> Pass, MongoDB is used.

#### c. Performance Requirements

The system should provide 24-7 service

-> pass, the system is on cloud server.

Support multiple users

-> Pass

Login should be done within 10 seconds

-> Pass

Information update should be done and responses within 30 seconds

-> Pass

#### d. Security Requirement

The passwords are needed to meet particular complex requirements

-> Pass, default password includes Upper & Lower case letter and number with no less than 10 char. Same as the requirement to change password.

#### e. Interface Design:

Designed to be intuitive and easy to use

-> Pass

## II. Organizational Requirement

### a. **Authentication**

Users of the system shall authenticate using their school id and password to login.

-> Pass, Login is required to access the system

## III. External Requirement

### a. **User-Friendly Interface**

Intuitive and easy-to-use interface for all users.

-> Pass

### b. **Support and Maintenance**

Provide ongoing technical support and updates.

-> Failed

## 2. Defect Test

Requirements	Condition	Result	Status
User Authentication	1. wrong username & wrong password	Return to login page	failed
	2. correct username & wrong password	Return to login page	failed
Student Profiles	1. update phone number with text or random length number	Update failed	failed
	2. update phone number with occupied number	Update failed	failed
	3. update email with occupied email	Update failed	failed
	4. update email with incorrect format email	Updated	pass
Attendance Tracking	1. take attendance by changing computer date	Update failed	failed
Grading and Transcripts	1. select no student to comput score	Update failed	failed
Course Management	1. admin register student and teacher with missing info	Update failed	failed
	2. admin create program with incorrect input or existed data	Update failed	failed
	3. program leader create course with incorrect input or existed data	Update failed	failed
	4. course leader enroll students with empty input	Update failed	failed
	5. teacher select no student to compute score	Update failed	failed