

**Student Score  
Management Software  
Test Plan  
Version 1.1**

**Project Code: 1**

**Document Code: 1**

## RECORD OF CHANGE

\*A - Added M - Modified D - Deleted

[illegible]

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# **1 INTRODUCTION**

## **1.1 Purpose**

The software "Student Score Management" is written in Java, C #, MySQL database to build software to support the management of grades in the learning process is very important, complex and demanding ask for high accuracy.

- The software will be a friendly and convenient tool in the process of entering and scoring students' scores, student information management, course management ...
- The software needs to have an administrator system to access functions for each user when accessing.

## **1.2 Test purpose**

The test plan document for the "Student Score Management" project is used to:

- Identify project information and project parts that need to be tested.
- List test requirements.
- Identify the testing methods and strategies to use.
- Identify resources needed.
- List the test environment.

### 1.3 Scope of testing

#### 1. Testing Type

ID	Feature	Functional Testing	Integration Testing	Security & Access Control Testing
1	User management and software access rights	4 days	1 day	2 days
2	Management module subjects	4 days	1 day	
3	Student Management	4 days	2 days	
4	Student Score Management	4 days	2 days	
5	Faculty management	4 days	2 days	
6	Class management	2 days	1 day	

### 1.4 Related documents

ID	Documents	Resource	Comment
1	Document description required		
2	Document describing the function		
3	Project planning document		

4	Material design analysis		
5	Instruction document		

## 1.5 Risk list

### 1. Risk plan

ID	Risk	Remedy and Prevention	Effect
1	Build out late	Notify Project Manager of the overall plan adjustment	Medium
2	Exceeding the allowed limit	Always follow the progress, update, adjust the plan	High
3	There are change requests but not fully reported	Contact Project Manager and Business Analyst for information	High

### 2. Risk of funding and resources

ID	Risk	Remedy and Prevention	Effect
1	Exceeding allowed expenses during operation	Always follow the progress, update, adjust the plan	Medium
2	Lack of system resources	Recommend additional funding, support system resources	Medium

3	Initial cost is not enough	Review the plan, adjust the irrational points, cut down on less important tasks	Medium
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### 3. Operational risks

ID	Risk	Remedy and Prevention	Effect
1	Does not operate on the environment described in the requirement	Feedback to developers to get another build	Medium
2	Controversy between feature error and no error	Meetings for verification with developers, Project managers and customers	High

### 4. Technical risks

ID	Risk	Remedy and Prevention	Effect
1	The module is too complicated	The proposal was converted into a non-testing feature	High
2	Integration check: the developer fixes one error and another error appears	Review and discuss failed tests to make a quality decision	Medium
3	Technical documents, instructions for use are not enough	Request management provided in the expenditure document	Short

## **2 REQUIREMENTS FOR TEST**

- Test functions and components with high priority first.
- Assessing the quality of products. Product quality must be at an acceptable level and in accordance with customer requirements.
- Find as many errors as possible.

## **3 TEST STRATEGY**

- Review user documentation, user interfaces, and error-prone functions
- Check if the function has been implemented correctly with the required description
  - Valid data that produces expected results.
  - Error and display the correct message when the data is invalid.
  - Exactly implemented business rules.
- Test different scenarios from simple to complex.
- Only use black-box technique.
- Types of tests: Functional Test (mainly), Integration Test, Security & Access Control Testing.
- All defect information must be recorded from which to evaluate the product quality.
- The test stops when: running out of time, running out of funds, completing the planned plan or reaching an agreed quality level.



### 3.1 Test tools

Action	Tools	Supplier / Self-construction	Version
Managing test activities	Excel	Microsoft	2016
Error control	Excel	Microsoft	2016
Database management tools	SQL Server	Microsoft	18.4
Manage project progress	GifHub	GifHub	

### 3.2 Test environment

Resource	Functional Test / Integration Test Security & Access Control Testing	System Test
Version	Running on code	Running on code
Database	Database development	Set up its own database

## 4 TEST FOR RESOURCE

### 4.1 Human Resource

This table shows the staffing assumptions for the project.

Member	Position / Responsibility / Comment
Vu Van Hoang	Test Manager: manage test activities <ul style="list-style-type: none"><li>• Technical guidance.</li><li>• Use and management of resources.</li><li>• Management reports.</li><li>• Product quality report.</li></ul>
Nguyen Duy Thanh	Test Designer: testcase design <ul style="list-style-type: none"><li>• Define the test approach.</li><li>• Write test cases.</li></ul>
Le Nhat Quang	Tester: implement and run test case. <ul style="list-style-type: none"><li>• Implement tests and test suites.</li><li>• Run a test suit.</li><li>• Record results.</li></ul>
Bui Nguyen Nhat Tam	

## 4.2 System

### 1. Hardware

Hardware Requirement
<ul style="list-style-type: none"><li>• CPU: 500 MHz processor</li><li>• RAM: 2GB</li><li>• HDD: 500MB</li></ul>

### 2. Software

Software Requirement
<ul style="list-style-type: none"><li>• Window 7 or higher</li><li>• JRE 1.7 or higher</li></ul>

## 5 TEST MILESTONES

Testing of v1.1 should incorporate test activities for each of the test efforts identified in the previous sections. Separate project milestones, which should be identified to communicate project status accomplishments.

Milestone Task	Resource	Begin date	End date	Man days
User Management and User Rights		10 - 02 - 2020	14 - 02 - 2020	4 days
User Managemnet	Hoang, Thanh	10 - 02- 2020	14 - 02 - 2020	4 days
User Rights	Tam, Quang	10 - 02 - 2020	14 - 02 - 2020	4 days
Integration Test	Hoang, Quang	14 - 02 - 2020	15 - 02 - 2020	1 day
Management Module Subject		15 - 02 - 2020	19 - 02 - 2020	4 days
Add Subject/ Exit	Thanh, Quang	15 - 02 - 2020	19 - 02 - 2020	4 days
Edit/Delete Subject	Hoang, Tam	15 - 02 - 2020	19 - 02 - 2020	4 days
Integration Test	Thanh, Tam	19 -02 - 2020	20 - 02 - 2020	1 day
Student Management		20 - 02 - 2020	24 - 02 - 2020	4 days
Add Student/ Exit	Quang, Hoang	20 - 02 - 2020	24 - 02 - 2020	4 days
Edit/Delete Student	Thanh, Tam	20 - 02 - 2020	24 - 02 - 2020	4 days
Integration Test	Quang, Tam	24 - 02 - 2020	26 - 02 - 2020	2 days
Student Score Management		26 - 02 - 2020	01 - 03 -2020	4 days
Add Score/ Exit	Hoang, Thanh	26 - 02 - 2020	01 - 03 -2020	4 days
Edit/Delete Score	Quang, Tam	26 - 02 - 2020	01 - 03 -2020	4 days
Integration Test	Hoang, Tam	01 - 03 - 2020	03 - 03 - 2020	2 days
Faculty Management		10 - 03 - 2020	14 - 03 - 2020	4 Days
Add Faculty/ Exit	Thanh, Quang	10 - 03 - 2020	14 - 03 - 2020	4 Days

Edit/Delete Faculty	Tam, Hoang	10 – 03 - 2020	14 – 03 - 2020	4 Days
Integration Test	Thanh, Hoang	14 – 03 - 2020	16 – 03 - 2020	2 days
Class Managenment		20 – 03 - 2020	22 – 03 - 2020	2 days
Add Faculty/ Exit	Hoang, Quang	20 – 03 - 2020	22 – 03 - 2020	2 days
Edit/Delete Faculty	Thanh, Tam	20 – 03 - 2020	22 – 03 - 2020	2 days
Integration Test	Hoang, Tam	22 – 03 - 2020	23 – 03 - 2020	1 day
Security & Access Control Test	Quang, Hoang	24 – 03 - 2020	26 – 03 - 2020	2 days

## 6 TEST FOR DELIVERABLES

No	Deliverables	Delivered Date	Delivered by	Delivered to
1	Test Plan	January 9		
2	Test Case	March 22		
3	Defect log / reports			