

UNIVERSITY OF TECHNOLOGY
FACULTY OF COMPUTER SCIENCE AND ENGINEERING



Test plan for “Công cụ tạo đề thi trắc nghiệm”

-Software Testing-

cuu duong than cong . com

Group 4:

cuu duong than cong . com

Test leader :

Đỗ Xuân Chung

50600212

Tester :

- **Đỗ Xuân Chung** **50600212**
- **Nguyễn Thái Văn Long** **50601330**
- **Phạm Đức Long** **50601344**
- **Trịnh Xuân Khoa** **50601143**

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1. OVERVIEW

1.1. PRODUCT NAME

“CÔNG CỤ TẠO ĐỀ THI TRẮC NGHIỆM”

1.2. PRODUCT REVISION

Last vision.

1.3. PROJECT LEAD

1.3.1. Đỗ Xuân Chung - 50600212

1.4. TEST PROJECT STAFF

1.4.1. Đỗ Xuân Chung - 50600212

1.4.2. Nguyễn Thái Văn Long - 50601330

1.4.3. Phạm Đức Long - 50601344

1.4.4. Trịnh Xuân Khoa - 50601143

1.5. PRODUCT OVERVIEW

Program 's functions :

1.5.1. Store and display document with image and formula format.

1.5.2. Good “questions bank” management.

1.5.3. Good ‘question exam bank” management.

1.5.4. Out put is in Microsoft word format. .

2. TEST PLAN OBJECTIVE

This Test Plan for the tool for “Công cụ tạo đề thi trắc nghiệm” supports the following objectives:

- Identify the strategies that will be used to verify and ensure the product meets its desired specifications and other requirements.
- Define the objectives and scope for the testing effort.
- Identify the methodology that test team will use to conduct tests.
- Identify the hardware, software and tools required for testing.
- Define functions and features that will be tested.
- Determined risk factor that jeopardize testing
- Schedule for testing with the specific assignment for each members.

3. TESTING STRATEGY

The test strategy consists of a series of different tests that will fully exercise the visualizing application. The primary purpose of these tests is to uncover the systems limitations and measure its full capabilities. A list of the various planned tests and a brief explanation follows below.

3.1 System Test

The System tests will focus on the behavior of the visualizing system. User scenarios will be executed against the system as well as screen interacting and error message testing. Overall, the system tests will test the integrated system and verify that it meets the requirements defined in the requirements document.

3.2 Performance Test

Performance test will be conducted to ensure that the visualizing system's response time meet the user expectations and does not exceed the specified performance criteria. During these tests, response times will be measured under heavy stress and/or volume.

3.3 Stress and Volume Test

We will subject the payroll system to high input conditions and a high volume of data during the peak times.

3.4 Recovery Test

Recovery tests will force the system to fail in a various ways and verify the recovery is properly performed. It is vitally important that all data is recovered after a system failure & no corruption of the data occurred.

3.5 Documentation Test

Tests will be conducted to check the accuracy of the output Microsoft word documentation. These tests will ensure that no features are missing, and the contents can be easily understood.

3.6 Installation Test

The application will be installed on some environments (Windows XP SP2, SP3 and Windows Vista) and we will check its compatibility with those environments. In the other hand, we will test the process of removing the application from the system.

General Testing Process Approach

1. Review project document.
2. Design test strategy and Determine test requirements.
3. Create test plan.
4. Design test case template.
5. Design and build test case.
6. Execute test plan.
7. Create test report.

3.7. Items to be tested

- 3.7.1. “Soạn câu hỏi” function.
- 3.7.2. “Sinh đề thi” function.
- 3.7.3. “Quản lý kỳ thi/Bộ đề” function.

3.8. Items *not* to be Tested

3.8.1. “Quản lý môn học / Chương mục” function.

3.8.2. Copyright, license.

4. HARDWARE / SOFTWARE RESOURCES

4.1. Hardware Requirements

4.1.1. CPU \geq 1.0 GHz

4.1.2. RAM \geq 256 MB

4.1.3. Hard Disk Space available \geq 50 MB

4.1.4. Graphic Card with Memory size \geq 64MB

4.1.5. Internet Connected

4.2. Software Requirements

4.2.1. Windows XP SP2.

4.2.2. Windows XP SP.

4.2.3. Windows Vista..

4.2.4. Current Windows version is able to update.

4.2.5. Microsoft SQL Server 2005

4.2.6. Microsoft Visual Studio 2005

4.2.7. .NET Frameworks 2.0 or later.

4.3. Standards/Reference material

4.3.1. <http://www.cse.hcmut.edu.vn/~minhnnn/File/Document/ST/Assignment/Assignment.pdf>

5. TYPES OF TESTING

5.1. FEATURE TEST

5.1.1. Features to be tested:

5.1.1.1. “Soạn câu hỏi”function:

- Create new question.
- Edit existing question.
- Delete existing question.
- Create new group of question.
- Edit new group of question.
- Delete new group of question.
- Stop creating new question.

(Repeat each test case with text, image, formula format)

5.1.1.2. “Sinh đề thi”function:

- Create new exam question

TEST PLAN FOR “CÔNG CỤ TẠO ĐỀ THI TRẮC NGHIỆM”

- Delete existing exam question
- Automatically create new exam question
- Delete existing question in exam question
- Update order of question in exam question
- View exam question 's solution
- Delete all questions in exam question
- Automatically create exam question.
- Manually create exam question

5.1.1.3. “Quản lý kỳ thi / bộ đề”function

- Create new examination
- Delete existing examination
- Mix all questions in “question book”
- Add question to “question book”.
- To export Microsoft Word document.

5.1.2. Features not to be tested:

- 5.1.2.1. Application building
- 5.1.2.2. Stop running application
- 5.1.2.3. Vietnamese support
- 5.1.2.4. Copyright, license

5.2. INSTALLATION TEST

- 5.2.1. Build program while current Windows is updating.
- 5.2.2. Redo all test case in Futures testing while Windows is updating.

6. RISKS AND CONTINGENCIES

STT	Risk	Contingency plan
1	Requirement changes affect to human resources and test strategy	Re-edit test plan to meet new requirements
2	Application is not able to be built on time	Re-build in other PCs and testing team must follow the schedule strictly
3	Virus effectively	Highlight this to every one in team, update newest version for anti virus program
4	Executed test case lost	Hand in executed testcase report / document to team leader by the end of day via e-mail

7. SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS

Suspension criteria:

- Hardware/software is not available at the times indicated in the project schedule.
- Source code contains one or more critical defects, which seriously prevents or limits testing progress.
- Assigned test resources are not available when needed by the test team.

Resumption Requirements:

If testing is suspended, resumption will only occur when the problem(s) that caused the suspension has been resolved. When a critical defect is the cause of the suspension, the “FIX” must be verified by the test department before testing is resumed.

8. TEST SCHEDULE AND RESOURCES

8.1. Test schedule:

Nhóm testing 4
 Tên Dự án Test phần mềm sinh đề thi trắc nghiệm
 Group leader Đỗ Xuân Chung
 Ngày hôm nay 02/06/10

TT	Công việc	Ngày bắt đầu	Ngày kết thúc	Số ngày đã thực hiện	Số ngày còn lại	26/05/10	02/06/10	09/06/10	16/06/10	23/06/10	30/06/10
1	Tạo test plan	02/06/10	05/06/10	3	15						
2	Cài đặt và build project	06/06/10	08/06/10	2	12						
3	Viết testcase: Soạn câu hỏi	09/06/10	11/06/10	2	9						
4	Viết testcase: Sinh đề thi	10/06/10	13/06/10	3	7						
5	Viết testcase: Quản lý đề thi/bộ đề	13/06/10	15/06/10	2	5						
6	Chạy test-case	16/06/10	19/06/10	3	1						
7	Viết báo cáo và hoàn tất	18/06/10	19/06/10	1	1						

8.2. Resources:

The test team will consist of:

- A Test Leader
- 4 Testers

9. ROLES AND RESPONSIBILITIES

Worker	Minimum Resources Recommended	Specific Responsibilities / Comments
Test leader Đỗ Xuân chung	30%	Provides management oversight Responsibilities: <ul style="list-style-type: none"> • Provide Technical direction • Acquire appropriate resources • Management reporting • Ensure test environment and assets are managed and maintained.
Test Designer Đỗ Xuân Chung Phạm Đức Long Nguyễn Thái Vân Long Trịnh Xuân Khoa	30% 50% 50% 50%	Identifies, prioritizes, and implement test cases Responsibilities: <ul style="list-style-type: none"> • Generate test case • Evaluate effectiveness of test effort • Prepare test data
Tester Đỗ Xuân Chung Phạm Đức Long Nguyễn Thái Vân Long Trịnh Xuân Khoa	40% 50% 50% 50%	Execute the tests Responsibilities: <ul style="list-style-type: none"> • Execute tests • Log results • Recover from errors • Document defects

10. DELIVERABLES

Deliverable	Responsibility	Completion Date
Develop Test cases	Testers	15/06/10
Test Case Review	Test Leader, Testers	16/06/10
Execute manual	Test Leader, Testers	19/06/10
Complete Defect Reports	Test Leader, Testers	19/06/10