

SE 318 – SOFTWARE VERIFICATION AND VALIDATION

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UNIT TEST DOCUMENT

Version 3.0 05/10/2017

VERSION HISTORY

There are three version of test cases.

You can see our progress below.

Version 1.0 was our first try for test cases. It was the initial test runs.

Version 1.1 was enhanced of version 1.0. There is a minor difference between them.

Version 2.0 were applied on our software which was Quiz Maker version 2.0.

Version 2.0 is our official test cases for the project. As we said above, it was used on the Quiz Maker ver. 2.0.

Version 3.0, new features have been added for users. The menu options was improved. Users can choose a profile which profile they want to use, they can prepare their own questions themselves and they can make quiz randomly in version 3.0

Version	Implemented	Revision	Approved	Approval	Reason
#	Ву	Date	Ву	Date	
1.0	Onur Durukan	04/16/2017	Batuhan Canlıtürk	04/16/2017	Test Cases draft
1.1	Begüm Özceylan	04/31/2017	Onur Durukan	04/31/2017	Drafts revision
2.0	Batuhan Canlıtürk	05/01/2017	Begüm Özceylan	05/01/2017	Final change on
					test cases
3.0	Batuhan Canlıtürk	05/10/2017	Onur Durukan	05/10/2017	Adding new
					features

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1 INTRODUCTION

1.1 PURPOSE OF THE TEST CASE DOCUMENT

The Test Case document documents the functional requirements of the *Quiz Maker's* test cases. The intended audience is the project manager, project team, and testing team. Some portions of this document may on occasion be shared with the client/user and other stakeholder whose input/approval into the testing process is needed.

The Test Case documents are the main sources for keeping track of the test cases and for their results. They can be used for the future test.

1.2 CONSTRAINTS

Quiz Maker version 2.0 is based on Java. Therefore, JUnit were used during the test runs.

2 UNIT TEST FRAMEWORK: JUNIT

JUnit is a simple, open source framework to write and run repeatable tests. It is an instance of the xUnit architecture for unit testing frameworks. JUnit features include:

- Assertions for testing expected results
- Test fixtures for sharing common test data
- Test runners for running tests

It is already situated on Eclipse.

3 TEST CASES

Test Case 1		
Test Definition		
Testing getAnswer method of Answer class		
Expected Value		
Set value : "A"		
Actual Value		
"A"		
Result of Test Case	SUCCESSFUL	

Test Case 2		
Test Definition		
Testing getName method of Exam class		
Expected Value		
Set name: "Begum"		
Actual Value		
"Begum"		
Result of Test Case	SUCCESSFUL	

Test Case 3		
Test Definition		
Testing getID method of Exam class		
Expected Value		
Set ID: 318		
Actual Value		
318		
Result of Test Case	SUCCESSFUL	

Test Definition

Testing getPaper method of Exam class

Expected Value

Set paper to other exam paper (exam1)

Actual Value

Exam1 paper

Result of Test Case

SUCCESSFUL

Test Case 5

Test Definition

Testing getQuestions method of Exam class

Expected Value

Set questions to exam1's questions

Actual Value

Exam1 questions

Result of Test Case

SUCCESSFUL

Test Case 6

Test Definition

Testing getQuestionOrder method of Exam class

Expected Value

Set questions to exam1's questions order

Actual Value

Exam1 questions order

Test Definition

Testing getMyAnswers method of Exam class

Expected Value

Set answers to A, B, C, D, and E respectively.

Actual Value

A, B, C, D, E

Result of Test Case

SUCCESSFUL

Test Case 8

Test Definition

Testing solveExam method of Exam class

Expected Value

After the exam is prepared, it should provide environment for solving exam.

Actual Value

It runs and getting inputs correctly.

Result of Test Case

SUCCESSFUL

Test Case 9

Test Definition

Testing prepareExam method of Exam class

Expected Value

Preparing exam correctly; 5 shuffled questions for the paper.

Actual Value

5 shuffled questions is ready.

Result of Test Case

SUCCESSFUL

Test Definition

Testing displayExam method of Exam class

Expected Value

It should print the questions to console.

Actual Value

All questions were printed.

Result of Test Case

SUCCESSFUL

Test Case 11

Test Definition

Testing gradeExam method of Exam class

Expected Value

Exam should be graded according to my answers.

Actual Value

Grade was calculated correctly.

Result of Test Case

SUCCESSFUL

Test Case 12

Test Definition

Testing getCorrect method of Question class

Expected Value

Set correct answer: "C"

Actual Value

"C"

Test Definition

Testing getName method of Question class

Expected Value

Set question name: "Question"

Actual Value

"Question"

Result of Test Case

SUCCESSFUL

Test Case 14

Test Definition

Testing getAnswers method of Question class

Expected Value

Set first answer : "Adana"

Actual Value

"Adana"

Result of Test Case

SUCCESSFUL

Test Case 15

Test Definition

Testing constructor of Answer class

Expected Value

Set answer: "Bolu" in constructor

Actual Value

"Bolu"

Test Definition

Testing constructor of Question class

Expected Value

Set name: "which one is above?" in constructor

Actual Value

"which one is above?"

Result of Test Case

SUCCESSFUL

Test Case 17

Test Definition

Testing constructor of Exam class

Expected Value

Set ID: 318 in constructor

Actual Value

318

Result of Test Case

SUCCESSFUL

Test Case 18

Test Definition

Testing default constructor of Answer class

Expected Value

Set answer: "no answer" in default constructor

Actual Value

"no answer"

Test Definition

Testing default constructor of Question class

Expected Value

Set name: "no question" in default constructor

Actual Value

"no question"

Result of Test Case

SUCCESSFUL

Test Case 20

Test Definition

Testing default constructor of Exam class

Expected Value

Set name: "no name" in constructor

Actual Value

"no name"

Result of Test Case

SUCCESSFUL

4 CONCLUSION

In the first phase, initial test cases were discussed and were designed according to our code. Enhancements were made and primary test cases were created. There are 20 test cases for the project. We tested the getter methods for the consistency. Along with the getters, setter methods were also checked implicitly. Both default and parametrized constructors were tested. Finally, all test cases passed successfully.