SE 318 – SOFTWARE VERIFICATION AND VALIDATION

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**UNIT TEST DOCUMENT**

Version *<2.0>*

*<03/05/2016>*

**VERSION HISTORY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 2.0 | *<DoğanDİRİK>* | *<03/05/16>* | *<Serhat*  *UZUNBAYIR>* | *<03/05/16>* | Test Case draft |
|  |  |  |  |  |  |
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**INTRODUCTION**

* 1. **PURPOSE OF THE TEST CASE DOCUMENT**

Test case document is also a part of test deliverables, by reading test case document stakeholders get an idea about the quality of test cases written and the effectiveness of those test cases. Stakeholders can also provide inputs about the current set of test cases as well as suggest some more missing test cases.

* 1. **CONSTRAINTS**

1.Game language is chosen with integer by gamer.

2.Language value should be 1 or 2.

3.Secret word is selected randomly in txt file. It must be not null.

4.Counter is less than 5.

5.Truecounter is less than equal word’s length.

6.Searchletter’s length should be 1.

7.Myword should not null.

8.LetterList should not null.

9.When the game end, getting input should be 1 or 2.

1. **UNIT TEST FRAMEWORK: *<JUNIT>***

JUnit is a unit testing framework for Java programming language. JUnit has been important in the development of test-driven development, and is one of a family of unit testing frameworks collectively known as xUnit, that originated with JUnit.

Junit Properties

* It has various interfaces that allow you to view test results.
* It divides the program into pieces so that each unit of the program can be tested separately.
* Includes standard installation and cleaning functions (Setup () and TearDown ())

1. **TEST CASES**

|  |  |
| --- | --- |
| **SecretWord** | |
| **Test Definition** | |
| **Getting the secret word is successfully.** | |
| **Expected Value** | |
| **Not Null** | |
| **Actual Value** | |
| **String** | |
| **Result of Test Case** | ***<successful >*** |

|  |  |
| --- | --- |
| **Counter** | |
| **Test Definition** | |
| **Take number of wrong answers.** | |
| **Expected Value** | |
| **True** | |
| **Actual Value** | |
| **True** | |
| **Result of Test Case** | ***<successful >*** |

|  |  |
| --- | --- |
| **WordList** | |
| **Test Definition** | |
| **Getting the word from the txt file.** | |
| **Expected Value** | |
| **Not Null** | |
| **Actual Value** | |
| **Not Null** | |
| **Result of Test Case** | ***<successful>*** |

|  |  |
| --- | --- |
| **MyWord** | |
| **Test Definition** | |
| **Underlining of the incoming glove on the screen.** | |
| **Expected Value** | |
| **True** | |
| **Actual Value** | |
| **True** | |
| **Result of Test Case** | ***<successful>*** |

|  |  |
| --- | --- |
| **Truecounter** | |
| **Test Definition** | |
| **Truecounter control word’s length which is small or not.** | |
| **Expected Value** | |
| **True** | |
| **Actual Value** | |
| **True** | |
| **Result of Test Case** | ***<successful>*** |

|  |  |
| --- | --- |
| **LetterList** | |
| **Test Definition** | |
| **Letterlist check the truecounter.** | |
| **Expected Value** | |
| **Not Null** | |
| **Actual Value** | |
| **Not Null** | |
| **Result of Test Case** | ***<successful >*** |

|  |  |
| --- | --- |
| **ModifyWord** | |
| **Test Definition** | |
| **It checks the word successfully change.** | |
| **Expected Value** | |
| **True** | |
| **Actual Value** | |
| **True** | |
| **Result of Test Case** | ***<successful>*** |

**4 CONCLUSION**

**A beta version of the software was available and tested with the necessary inputs. Constraints have been applied and tested.**

**In the delivery version, the scope of these tests will be expanded to accommodate the new changes.**