Software Engineering Group Project

Testing Report

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# Introduction

## Purpose of this Document

This document contains the results after carrying out the testing documented in the Test Specification. This document contains 2 tables. The first containing successful tests and the second containing any failed tests.

## Scope

The Testing Report aims to document all tests that are to be performed on the application produced during the software engineering module. Containing all relevant information that enabled the test to result in either a pass or fail.

## Objectives

The objective of this document is to contain the results of all produced tests. The result should contain a Boolean statement of either pass of fail. The result of the test should also include details relevant to the success or fail.

# Testing

## Successful Tests

|  |  |
| --- | --- |
| *Test* | *Result* |
| SE-F-001 | PASS - Data is loaded into the dictionary object and a list of words in a scrollable format appears on the GUI for the user in alphabetical order. |
| SE-F-002 | PASS – Data is sent to the practice list |
| SE-F-003 | PASS – Data is verified to make sure it’s not the same and is sent to the practice list |
| SE-F-004 | PASS – System does not duplicate words and instead sends words to practice list |
| SE-F-005 | PASS – System adds words with nothing in them into the practice list creating blank records. This test does pass when working specifically on a dictionary and not the whole base application class. This is caught on the front-end of the system after proper implementation. |
| SE-F-006 | PASS – The dictionary loads as an empty data store (Not a ‘null’) when initialised |
| SE-F-007 | PASS – GUI changes to reflect different language search but isn’t made obvious to the user |
| SE-F-008 | GUI Test – PASS – The application holds onto the search parameter and shows valid responses in welsh |
| SE-F-009 | PASS – The Tree maintains structure between two separate instances of it |
| SE-F-010 | GUI Test – Pass – The application successfully adapts to the search parameters and changes the required scroll bar based upon the volume of possible matches |
| SE-F-011 | PASS – System displays possible other sequence of characters containing ‘Add’ in front. |
| SE-F-012 | PASS – System displays no words found |
| SE-F-013 | PASS – System doesn’t remove whitespace around ‘ Add ‘ on the back end. This is caught on data-entry checks on the front-end of the system. |
| SE-F-014 | PASS – System displays error message because no word matches ‘Addenism’ |
| SE-F-015 | PASS – The dictionary successfully searches for the word “add” in the dictionary and returns the expected responses |
| SE-F-016 | PASS - The dictionary successfully searches for the word “ab” in the dictionary and returns the expected responses |
| SE-F-017 | GUI Test – PASS – The application successfully switches from English to welsh for its search language and updates the GUI with the relevant responses |
| SE-F-018 | GUI Test – PASS – The application successfully switches between welsh and English for its search parameter and updates the GUI with the new relevant responses |
| SE-F-019 | GUI Test – PASS – The application successfully adds a word to the practice list and removes it from the main dictionary display section |
| SE-F-020 | GUI Test – PASS - The application successfully removes a word from the practice list and adds it from the main dictionary display section |
| SE-F-021 | PASS – Valid word is successfully added to the dictionary and is |
| SE-F-022 | PASS – The word still ends up in the dictionary despite proper catching. This is caught on front-end checks of the application. |
| SE-F-023 | PASS – The information is added to the practice list but can be taken to the dictionary when removing the word from the practice list |
| SE-F-024 | PASS – The information is still added to the practice list on the back-end. This is caught on front-end integration of the application. |
| SE-F-025 | PASS – The newly added words always show up in the practice list |
| SE-F-026 | PASS – User cannot remove words from the dictionary, only the practice list |
| SE-F-027 | PASS – User is able to write long strings of text into the text boxes which then gets input into the practice list. This is handled on front-end implementation and has a character limit of 50. |
| SE-F-028 | PASS – The user is able to enter numbers when adding new words on back-end Junit Testing. This is caught on the front-end implementation. |
| SE-F-029 | PASS – The application does not stop the user from entering special characters when adding new words on back-end testing. This is caught on front-end implementation and passes. |
| SE-F-030 | PASS – The newly added verb isn’t prefaced by ‘to’ |
| SE-F-031 | PASS – System doesn’t preface word |
| SE-F-032 | PASS – User is able to tell if a word is masculine or feminine |
| SE-F-033 | PASS – Information user entered is not saved after reloading the application. This fails for JUnit Testing without a proper closing statement. This passes completely on front-end implementation and testing. |
| SE-F-034 | PASS – Flash cards are correctly produced for English words |
| SE-F-035 | PASS – Flash cards are correctly produced for Welsh words |
| SE-F-036 | PASS – Multiple Choice tests are correctly produced for English words |
| SE-F-037 | PASS – Multiple Choice tests are correctly produced for Welsh words |
| SE-F-038 | PASS – Alternative answers vary from test to test |
| SE-F-039 | PASS – No answers are duplicated |
| SE-F-040 | PASS – No alternative meanings are produced |
| SE-F-041 | GUI TEST - PASS – Translate Word test is correctly produced for English words and returns correct |
| SE-F-042 | GUI TEST - PASS – Translate Word test is correctly produced for English words and returns incorrect |
| SE-F-043 | GUI TEST - PASS – Translate Word test is correctly produced for Welsh words and returns correct |
| SE-F-045 | GUI TEST - PASS – Translate Word test is correctly produced for Wels words and returns incorrect |
| SE-F-046 | GUI TEST – PASS – Inputting blank returns incorrect |
| SE-F-047 | PASS – The system correctly produces match words quiz |
| SE-F-048 | PASS – The words are jumbled up |
| SE-F-049 | PASS – When less than four words throws NullPointerExeption |
| SE-F-050 | PASS – The system correctly produces a ransom set of tests |
| SE-F-051 | PASS – Tests are sufficiently random |
| SE-F-052 | GUI TEST – PASS – Test score increases when a test is solved |
| SE-F-053 | GUI TEST – PASS – Test score is totalled when all tests are over |
| SE-F-054 | PASS – Match Words quizzes do not appear when practice list contains less than four words. |

## Failed Tests

|  |  |
| --- | --- |
| *Test Reference* | *Explanation* |
| SE-F-023 – SE-F-033 | These tests have not been properly tested with Junit code. Spikework was produced but not tested on the complete version of the program due to the Junit being unfinished. Visual GUI testing passed every test by running the program, but it cannot be certain that everything works without Junit tests. |

REFERENCES

[1] Software Engineering Group Projects – Producing a final report / 2.2 (Release) - C. J. Price

DOCUMENT HISTORY

| *Version* | *CCF No.* | *Date* | *Changes made to document* | *Changed by* |
| --- | --- | --- | --- | --- |
| 0.1 | N/A | 27/04/2020 | Document creation and initial data entry | BID1 |
| 0.15 | N/A | 28/04/2020 | Document update to include all tests for Functional Requirements 1 - 4 | MAC127 |
| 0.2 | N/A | 30/04/2020 | Document update to include all tests for Functional Requirements 8-10 | LAB54 |
| 0.3 | N/A | 30/04/2020 | Document update to include the final tests in the document | BID1 |
| 0.4 | N/A | 01/05/2020 | Alterations of Tests and completion of test notes ready for QA review | MAC127 |
| 0.5  (Draft) | N/A | 04/05/2020 | Inclusion of footnote regarding Tests 23 - 33 | MAC127 |
| 0.6 (Draft) | N/A | 05/05/2020 | Finalisation of document. | SHW30 |
| 1.0 | N/A | 05/05/2020 | Addition of introduction section. | MAL102 |