**Software Engineering Group Project 20**

**Test Procedure Standards**

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# Introduction

## Purpose of this Document

This documents purpose is to provide a clear set of guidelines to aid the production of a high-quality program for Group 20 in CS22120.

## Scope

This document lays the groundwork for the standards that must be followed when software test specifications and reports are written. This document also outlines the main stages of testing to be followed.

This document must be read in full by all members of the Group 20 team. It is assumed that all members of group 20 are already clearly familiar with the QA Plan [1].

## 1.3 Objectives

The objectives of this document are to outline a clear plan for testing, formatting, and the information that must be supplies for the test specifications and test reports.

## 2 Relevant QA Documents

This Test Specification and the following Test Report are to be produced in full to the quality standards outlined within the QA Plan [1]. These files must also be stored and maintained within the configuration management system following the guidelines given in Operating Procedures and Configuration Management Standards [3]. The basic layout of the documents along with all of the information within them must also follow the structure and guidelines given within General Documentation Standards [4].

# 3 General Approach to Testing

Messed this up and need to rewrite it. I made a dog’s dinner of it…

# 4 Test Plan

Messed this up and need to rewrite it. I made a dog’s dinner of it…

# 5 Test Specifications

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Reference | Requirement Being Tested | Test Content | Input | Output | Pass Criteria |
| GR20T1 | FR1 | Check That words shown are arranged alphabetically by their English Words | N / A | English words shown in ascending order alphabetically. | Data is shown correctly |
| GR20T2 | FR2 | Selecting the language option should reorder the list to alphabetically show welsh words over English. | Clicking the language button. | Welsh words shown in ascending order alphabetically. | Data is shown correctly. |
| GR20T3 | FR3 | Typing an English word in the search bar while the list is sorted by English should only show words starting with those letters. | Typing “ap” | Words displayed should be words starting with the written input. E.g. “Apple” | Correct data displayed. |
| GR20T4 | FR3 | Typing a Welsh word in the search bar while the list is sorted by Welsh should only show words starting with those letters. | Typing “af” | Words displayed should be words starting with the written input. E.g. “Afal” | Correct data displayed. |
| GR20T5 | FR4 | Highlighted words should all be placed in a practice list. | Left clicking the word | Word should be updated into the practice list. | Word correctly added to practice list. |
| GR20T6 | FR4 | Words deselected should be removed from the practice list. | Clicking the star button next to a word. | Word should be removed from the practice list. | Word correctly removed from practice list. |
| GR20T6 | FR5 | Trying to add a new word to the dictionary without supplying a translation. | “Add”  Apple  [Leave translation field blank.] | An error message warning of incorrect input should be shown. | System displays input error message. |
| GR20T6 | FR5 | Trying to add a word that is already in the program. | “Add”  Apple  [Afal] | An error message warning of duplicate data attempt should be shown. | System displays duplicate data error message. |
| GR20T7 | FR6 | Selecting A word should show its “masculine” “feminine” “noun” “verb.” | Select a word from the list. | Word information is given. | Word information matches the data stored within the stored file. |
| GR20T8 | FR7 | Clicking the “Practice List” ribbon should show all practice words the user has denoted with the “star” icon. | Navigate to “Practice List” menu option. | All practice words should be shown in alphabetical order. | Practice words shown in alphabetical order. |
| GR20T9 | FR8 | Flash cards should randomly show either welsh or English for the user to answer. | Navigate to “Flash Cards” menu option. | Flash cards correctly show word with the correct flipped translation word. | Flash card shown to user correctly. |
| GR20T10 | FR9 | Starting a “Options” test should show a word followed by six words in the opposite language. (One of which being correct.) | Navigate to Tests. Select “Options” as a test type. | Test word must be shown along with six possible answers (One of which must be correct.) | Data shown correctly. |
| GR20T11 | FR9 | Starting a “Translate” test should show a word followed by a text box where the translated word can be entered by the user. | Navigate to Tests. Select “Translate” as a test type. | Test word must be shown along with a Text box, where inserting the correct translation must show as correct. Inserting an incorrect translation must show as incorrect. | Data shown correctly. Correct prompts shown on pass or failure of the translation. |
| GR20T12 | FR9 | Starting a “Match” test should show four practice list words along with four matching (unordered) meanings. The four meanings can be matched with the words. | Navigate to Tests. Select “Match” as a test type. | Four test words must be shown along with their four jumbled meanings. Matching them correctly must be shown as correct while matching them incorrectly must be shown as incorrect. | Data shown correctly, Pass or Fail correctly shown upon the matching of words and meanings. |
| GR20T13 | GR20T12 | The “Match” test option must not be available unless there are at least FOUR words added to the practice list. | Navigate to Tests. Select “Match” as a test type. | The user must be shown an error message if there are less than FOUR words added to the practice list. Otherwise the test will begin. | If less that FOUR words are present within the test list. An error message is shown.  If FOUR words are present the test will proceed without an error message following test parameters outlines within (GR20T12.) |
| GR20T14 | FR10 | When the user starts a test, the words loaded should be from the practice list. | Navigate to Tests. | Words shown must only be those that were added to the practice list by the user. | Data shown correctly. |
| GR20T15 | FR10 | With each answer the user gives, a score counter should reflect the number of questions answered along with how many the user has answered correctly | Start one of the tests within the “Test” menu. | A shore table must be shown. This counter must show the number of questions that have been answered along with the number that the user has entered correctly. | Data is shown correctly and correctly counts the number of questions attempted along with the number of questions answered correctly. |
| GR20T16 | FR10 | At the conclusion of the test the user should be shown clear feedback of praise if they are correct. Otherwise the feedback should be information on what the correct answer is. | Navigate to “Tests” and complete one of them using both known correct and incorrect answers. | Feedback shown at the end of each test must be the correct outcome along with showing the correct assistance feedback is required. | Data shown correctly in feedback text field. |

# 6 Test Result Reporting

All details appertaining to test results must be maintained and kept within the test folder stored within the group project repository on GitLab. Two folders must be present with one being labelled Module Tests and the other being labelled System Tests.

Each section must contain a dated report which is added and updated whenever a new version of the software is built. This test must include all information of tests that have failed within said build.

When the project is completed with all tests able to be run and all tests have passed. All results must be submitted within a final report as a Test Report following the guidelines set within Producing a Final Report[2].

# References

[1] QA Document SE.QA.01 - Quality Assurance Plan.

[2] QA Document SE.QA.10 - Producing a Final Report.

[3] QA Document SE.QA.08 - Operating Procedures and Configuration Management Standards.

[4] QA Document SE.QA.02 - General Documentation Standards.

# Document History

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| --- | --- | --- | --- | --- |
| Version | CCF No. | Date | Changes Made to Document | Changed by |
| 0.1 | N / A | 2020-02-15 | Initial Creation | NCW |
| 0.2 | N / A | 2020-02-17 | Updates to TEST SPECIFICATIONS | NCW |
| 0.3 | N / A | 2020-02-19 | Updates to TEST SPECIFICATIONS and FORMATING | NCW |
| 0.4 | N / A | 2020-02-21 | Minor grammatical chances | NCW |
| 0.5 | N / A | 2020-02-25 | (3 GENERAL APPROACH TO TESTING) and (4 TEST PLAN) designed incorrectly and are to be redone. | NCW |