Software Engineering Group Project

Group 6 Test Specifications document

|  |  |
| --- | --- |
| Author: | vad7 |
| Config Ref: | TestSpecGroup6 |
| Date: | 28th April 2020 |
| Version: | 1.3 |
| Status: | Release |

Department of Computer Science

Aberystwyth University

Aberystwyth

Ceredigion

SY23 3DB

Copyright © Aberystwyth University 2020

CONTENTS

CONTENTS 2

1. Introduction 3

1.1 Purpose of this Document 3

1.2 Scope 3

1.3 Objectives 3

2. TEST SPECIFICATIONS TABLE…………………………………………………………….….3

REFERENCES 5

DOCUMENT HISTORY 5

# Introduction

## Purpose of this Document

The purpose of this document is to describe the test specifications for the Welsh language dictionary for the assignment.

## Scope

This document specifies the testing strategy and also the tests to be performed on the Welsh language dictionary application.

This document should be read by the system testers. The reader should be familiar with the Requirements Specification for Welsh Vocabulary Tutor document and the Test Procedure Standards document.

## Objectives

To describe the outline plan for testing and the tests to be performed and their details. The testing shall be done through the use of system tests which are described below. The provided input examples should not be changed by the person testing the program and if an error is found the conditions of the occurrence should be recorded so it can be recreated.

# Testing specifications table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Ref | Requirement being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-01 | PR2 | Check if the application runs on PCs within the Department | Start the application | The application displays | The application starts and runs as expected |
| SE-F-02 | FR1 + FR2 + PR1 | Check if the list is ordered correctly | The program is started | The list is displayed | The list is displayed in an alphabetical order in less than a second |
| SE-F-03 | FR2+ PR1 | Check if the list can change to Welsh | Press the button on the UI to change to Welsh | The list is displayed | The list is displayed in an alphabetical order based on the Welsh words in less than a second |
| SE-F-04 | FR2+ PR1 | Check if the list can change back to English | Press the button to change to English | The list is displayed | The list is displayed in an alphabetical order based on the English words in less than a second |
| SE-F-05 | FR3 + PR1 | Check that the searching reacts in at most one second | Search for the word “box” | Fast finding of the noun “bocs” and the verb “bwlch” and display | The finding and displaying process takes at most one second |
| SE-F-06 | FR3 | Check for rejection of unwanted character inputs | Search for the combinations “b3d”and “床” (this character means bed) | Error message | The user is informed that he introduced an illegal character |
| SE-F-07 | FR3 | Check for rejection of words which are too long to exist | Search for “cyfrwngddarostyngedigaethaua” for Welsh and “pneumonoultramicroscopic-silicovolcanoconiosiseses” for English | Error message/ No search return | The user is informed that the word is too long |
| SE-F-08 | FR4 + PR1 | Add a word to the practice list | The user presses the button to add the noun ‘box’ | The word is added to the practise word list | The word is added to the list in less than a second |
| SE-F-09 | FR4+ PR1 | Remove a word from the list | The user presses the button to remove the noun ‘box’ | A list without the removed word | The word is removed from the list in less than a second |
| SE-F-10 | FR4 | Check if the practice list can hold a substantial number of words | Add 50 words from the dictionary to the practice list | All of the words are added | The practice list holds all the words |
| SE-F-11 | FR4 | Check if adding a word in one language prevents the user to add it from the other language | Add the word “abbey” in English and then try and add “abaty” in Welsh | Message telling the user the word already exists in the practice list | The user can’t add the word |
| SE-F-12 | FR5+ PR1 | Check if words are added properly | The user presses the button to add the word “lunge” and introduces the requested prompts | The menu to introduce the word is displayed and a message is displayed at the end if the word was added | The word is added correctly in the dictionary and the practice list in less than a second |
| SE-F-13 | FR5 | Check for rejection of unwanted characters | User inputs “b3d”and “床” | User gets told said character(s) can’t be added | Word is not added to dictionary |
| SE-F-14 | FR5 | Check for the rejection of long words | User types in “cyfrwngddarostyngedigaethaua” for Welsh and “pneumonoultramicroscopic-silicovolcanoconiosiseses” for English | User gets a message telling them the word is too long | Word is not added to dictionary |
| SE-F-15 | FR5 | Check if the user can add a word that is already in the dictionary | The user tries to add the word ‘abbey’, which is already in the dictionary | User gets an error message | Error message is shown stating that the word already exists in the dictionary |
| SE-F-16 | FR6+ PR1 | Display the main list of words | User presses button to show entire list | List is displayed | The list is displayed correctly in less than a second |
| SE-F-17 | FR7 | Addition of words in preparation for following tests | The user adds the words “abbey”, “box” (both the noun and verb), “abroad” and “accept”. Practice list should be empty at the start of this test, should contain only the words specified in this test during and after the test is complete. | The words are added to the practice list | The words are added to the practice list |
| SE-F-18 | FR7+ PR1 | Display the practice list | User presses UI practice list button to display list | List is displayed with all words in the correct order | The words “abbey”, “box”, “abroad” and “accept” are displayed correctly in less than a second |
| SE-F-19 | FR8 | Check if the flashcards are displayed correctly | User goes through all flashcards and checks if it matches the practice list | Flashcards with randomised English/Welsh meanings are displayed | Flashcards that have the words mentioned in SE-F-17 are displayed |
| SE-F-20 | FR9+FR10 | Check if the tests are chosen randomly | Run the testing section 3 times and check if the same the tests are different | Tests with randomly chosen words appear | The user is being presented with a different combination of tests each time. |
| SE-F-21 | FR9+FR10 | Check if the score is being displayed correctly | Take the tests | The user is shown their score | The score is displayed correctly |
| SE-F-22 | FR9+FR10 | Check if the positive feedback is given correctly | Take the tests answering correctly | User is given positive feedback | The feedback is displayed correctly |
| SE-F-23 | FR9+FR10 | Check if the negative feedback is given correctly | Take the tests and get answers wrong | User is given negative feedback | The feedback is displayed correctly |
| SE-F-24 | FR9+FR10 | Check if the multiple-choice quiz works | Run the quiz and see if it is displayed | User is presented with a multiple-choice quiz | The quiz is displayed and functions correctly as described in the requirements specification [2] |
| SE-F-25 | FR9+FR10 | Check if typing quiz is working | Run the quiz and see if it is displayed | User is presented with a typing quiz | The quiz is displayed and functions correctly as described in the requirements specification [2] |
| SE-F-26 | FR9+FR10 | Check if the matching quiz is working | Run the quiz and see if it is displayed | User is presented with a matching quiz | The quiz is displayed and functions correctly as described in the requirements specification [2] |
| SE-F-27 | FR9+FR10 | Check if the matching quiz will not run with fewer than 4 words in the practice list | Remove both meanings of the word “box” from the practice list and run the quiz | An error message is displayed stating there are not enough words | The quiz doesn’t start |

REFERENCES

[1] Software Engineering Group Projects – Test Procedure Standards. C. J. Price. SE.QA.06. 2.0 Release

[2] Software Engineering Group Projects: Welsh Vocabulary Tutor Requirements Specification. C. J. Price. SE.QA.CSRS. 1.1 Release

DOCUMENT HISTORY

| *Version* | *CCF No.* | *Date* | *Changes made to document* | *Changed by* |
| --- | --- | --- | --- | --- |
| 1.0 | N/A | 05/03/20 | N/A - original version | VAD7 |
| 1.1 | Issues 2-9 + 21-27 | 09/04/20 | Modified the document with regard to the feedback | VAD7 |
| 1.2 | Issues 21-28 | 15/04/20 | Modified the document according to the extra feedback provided by both Josh Rogers and Chris Price | VAD7 |
| 1.3 | Issues 29 and 30 | 28/04/2020 | Modified document according to feedback regarding issues not yet rectified from both me and Chris Price. Added an additional reference [2] | JOR69 |