Software Engineering Group Projects -

TEST SPECIFICATION

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CONTENTS

CONTENTS 2

2

1. Introduction 3

1.1 Purpose of this Document 3

1.2 Scope 3

1.3 Objectives 3

2. Test specifications 3

2.1 Start-up 3

2.2 Searching 3

2.3 Dictionary 4 6

2.5 Practice List 7

2.6 Settings 8

2.7 Revision 9

REFERENCES 10

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# Introduction

## Purpose of this Document

The purpose of this document is to provide a test table which will describe in detail how the test will be carried out.

## Scope

This document specifies how every test will work, by giving them a test reference, describing which requirement is being tested, a test content to explain what the test is about, the input and output of each test and pass criteria.

This document is meant for the coder(s) of the group to help him/them to make a set of tests that try all of the significant behaviour of the class.

## Objectives

The main objective is to create a test table which will contain all the necessary tests for the app. This description is known as a test procedure.

# Test specifications

## Start-up

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-001 | FR1 | Dictionary loads up in English as a default | Open the app | Displays a list of English words in alphabetical order with their translations | Dictionary loaded in English |
| SE-F-002 | FR1 | Scrolling through the list | Moving the scrolling bar up and down | Go through all the list | Scrolling through the dictionary correctly |
| SE-F-003 | N/A | Checking if the app is saving the content of the user in its current state | Add the word «hell» with its welsh translation «uffern» to the dictionary, close the app, open the app again and search for the recently added word «hell» | Displays the word «hell» with its welsh translation «uffern» | Word displayed correctly |
| SE-F-004 | FR2 | Switching to Welsh dictionary | Press the «WelshFlag» button | Displays a list in alphabetical order of Welsh words with their translations | Dictionary loaded in Welsh |
| SE-F-005 | FR2 | Switching back to English dictionary | Press the «EnglishFlag» button | Displays a list in alphabetical order of English words with their translations | Dictionary loaded in English |

## Searching

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-006 | FR3 | Check if the words are getting predicted in English | Press «EnglishFlag» button, type «hel» in the searching bar | Displays all words from dictionary starting with «hel» | Words are displayed correctly |
| SE-F-007 | FR3 | Check if the words are getting predicted in Welsh | Press «WelshFlag» button, type «hel» in the searching bar | Displays all words from the dictionary starting with «hel» | Words are displayed correctly |
| SE-F-008 | FR3 | Check different types of inputs in English | Press «EnglishFlag» button, type «£@#~» in the searching bar | The list of words in the dictionary is empty, “No content in table” message displayed | Showing the empty list, message displayed correctly |
| SE-F-009 | FR3 | Check different types of inputs in English | Press «EnglishFlag» button, type «123» in the searching bar | The list of words in the dictionary is empty, “No content in table” message displayed | Showing the empty, message displayed correctly |
| SE-F-010 | FR3 | Check different types of inputs in Welsh | Press «WelshFlag» button, type «£@#~» in the searching bar | The list of words in the dictionary is empty, “No content in table” message displayed | Showing the empty list, message displayed correctly |
| SE-F-011 | FR3 | Check different types of inputs in Welsh | Press «WelshFlag» button, type «123» in the searching bar | The list of words in the dictionary is empty, “No content in table” message displayed | Showing the empty list, message displayed correctly |

## Dictionary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-012 | FR5 | Add a new English word to the dictionary | Press «+» button, type in word in English «widow», its translation «weddw» and set type as a verb | Home screen view, «Word added successfully» message displayed, practice list updated with a new word | The word is added successfully to both dictionary and practice list, message displayed correctly |
| SE-F-013 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, type in word in English «widow», leave the translation field blank, set type as a verb | «Add word» button greyed out | Button «Add word» remains not active |
| SE-F-014 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, leave the field for English word blank, type in welsh translation «weddw» and set word type as a verb | «Add word» button greyed out | Button «Add word» remains not active |
| SE-F-015 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, leave all fields blank | «Add word» button greyed out | Button «Add word» remains not active |
| SE-F-016 | FR5 | Add the same word with same type and translation to the dictionary twice | Press «+» button, type in word in English «widow», its translation «weddw» and set type as a verb | «Word already exists in the dictionary» message | Error message displayed |
| SE-F-017 | FR6 | Check if verbs are prefaced by “to” | Type «go» in the searching bar | Displays «to go» | Word displayed correctly |
| SE-F-018 | N/A | Delete newly entered word of dictionary | Find word by typing «widow» in the searching bar, press the right mouse button on the word , click «delete» | Removing «widow» with its translation from the dictionary. displays updated list, message “DELETED: to widow” displayed | List displayed correctly. The word is removed. Message displayed correctly |
| SE-F-019 | N/A | Check if it is case insensitive | Type «Hello» in the searching bar | Displays «hello» | Word is found and displayed correctly |
| SE-F-020 | FR4 | Add a word to your practice list | Double click on the word «widow» | «widow» is added to the practice list, marked as tick in the dictionary | Practice list updated correctly |

## Practice list

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-021 | FR4 | Delete word from the practice list | Double click on the word «widow» | «widow» is removed from the practice list, tick is removed from the dictionary | Practice list and dictionary updated correctly |
| SE-F-022 | FR4 | Delete word from both practice list and dictionary | Right-click on the word «Diolch» and press «delete» | «Diolch»is removed from the practice list | Practice list updated correctly |
| SE-F-023 | FR7 | Display list of words from the practice list | Press «Practice List» button | The correct list of the added words by the user | Words displayed correctly |

## Settings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-024 | N/A | Change the size of the font «medium» | Set font as «medium» | The font in the app changed to 18 pixels, message “Set font to: Medium” displayed | Text in the app displayed correctly, message displayed correctly |
| SE-F-025 | N/A | Change the size of the font «small» | Set font as «small» | The font in the app changed to 12 pixels, message “Set font to: Small” displayed | Text displayed correctly, message displayed correctly |
| SE-F-026 | N/A | Change the size of the font «large» | Set font as «large» | The font in the app changed to 28 pixels, message “Set font to: Large” displayed | Text displayed correctly, message displayed correctly |
| SE-F-027 | N/A | Change the number of words used in a single quiz | Set number to «10» | The tests taken by the user should present up to 10 words in the quiz, message “Set amount of word quizzed to: 10” displayed | Settings updated correctly, message displayed correctly |
| SE-F-028 | N/A | Change the number of words used in a single quiz | Set number to «15» | The tests taken by the user should present up to 15 words in the quiz, message “Set amount of word quizzed to: 15” displayed | Settings updated correctly, message displayed correctly |
| SE-F-029 | N/A | Change the number of words used in a single quiz | Set number to «20» | The tests taken by the user should present up to 20 words in the quiz, message “Set amount of word quizzed to: 20” displayed | Settings updated correctly, message displayed correctly |
| SE-F-030 | N/A | Change the number of words used in a single quiz | Set number to «25» | The tests taken by the user should present up to 25 words in the quiz, message “Set amount of word quizzed to: 25” displayed | Settings updated correctly, message displayed correctly |
| SE-F-031 | N/A | Change the number of words used in a single quiz | Set number to «30» | The tests taken by the user should present up to 30 words in the quiz, message “Set amount of word quizzed to: 30” displayed | Settings updated correctly, message displayed correctly |
| SE-F-032 | N/A | Change the number of words used in a single quiz | Set number to «5» | The tests taken by the user should present up to 5 words in the quiz, message “Set amount of word quizzed to: 5” displayed | Settings updated correctly, message displayed correctly |
| SE-F-033 | N/A | Change the language that you would like to be quizzed in | Set language as «Welsh» | Quizzes in Welsh, message “Set quizzed language to: Welsh” displayed | Settings updated correctly, message displayed correctly |
| SE-F-034 | N/A | Change the language that you would like to be quizzed in | Set language as «English» | Quizzes in English, Message “Set quizzed language to: English” displayed | Settings updated correctly, message displayed correctly |
| SE-F-035 | N/A | Change the language that you would like to be quizzed in | Set language as «both» | Quizzes in both English and Welsh, Message “Set quizzed language to: Both” displayed | Settings updated correctly, message displayed correctly |

## Revision

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-036 | FR9 | Check that the system treats correct input as a good answer in the input box | Add the word «hello» to the practice list, run test, enter «shwmae» in the input box, press «submit» | The score increased by 1, «Correct!» message displayed | Message displayed correctly |
| SE-F-037 | FR9 | Check that the input in the box is case insensitive | Add the word «hello» to the practice list, run test, enter «Shwmae» in the input box, press «submit» | The score increased by 1, «Correct!» message displayed | Message displayed correctly |
| SE-F-038 | FR9 | Check that the system treats incorrect input as a wrong answer in the input box | Add the word «hello» to the practice list, run test, enter «shwamed» in the input box, press «submit» | The score stays the same**,** «False! Correct answer : shwmae» message displayed | Error message displayed correctly |
| SE-F-039 | FR9 | Check that the system takes the good answer as correct in multiple choice question | Add the word «hello» to the practice list, run test, choose «shwmae» from the options, press «submit» | The score increased by 1, «Correct!» message displayed | Message displayed correctly |
| SE-F-040 | FR9 | Check that the system takes the wrong answer as incorrect in multiple choice question | Add the word «hello» to the practice list, run test, choose any answer apart from «shwmae», press «submit» | The score stays the same**,** «False! Correct answer : shwmae» message displayed | Error message displayed correctly |
| SE-F-041 | FR9 | Check that there are six different translations given in multiple choice question | Run test, compare the answers | N/A | Six different answers displayed |
| SE-F-042 | FR10 | Check that overall score is correct | Press «Settings», Set number of tests in the revision section as 10, give only two correct answers | Score displayed as «2/10» | Feedback displayed correctly |
| SE-F-043 | FR8 | Check if you can check the word’s translation from the flashcard | Add the word «hello» to the practice list, press «Revise», press «Flashcards», press «Flip» | Translation «shwmae» displayed | Translation displayed correctly |
| SE-F-044 | FR8 | Check if 4 words generated in match game are different | Press «Revise» press «Quiz» and 4 different words should appear | 4 words were generated, and they were different | 4 words were generated correctly |
| SE-F-045 | FR8 | Check if error message comes up if the answers is not correct in the match game | Press «Revise» press «Quiz» and select wrong answers from the dropdown lists | Error message was displayed, and the right answer was displayed with it | Error message was displayed correctly |
| SE-F-046 | FR8 | Check if the generated 4 words in match game match the answers of the dropdown list “potential answers” | Click on each dropdown list and match the translation | All 4 words match with potential answers | All 4 words matched with the given answers |

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[1] Software Engineering Group Projects: General Documentation Standards. C. J. Price, N. W. Hardy, B.P. Tiddeman. SE.QA.03. 1.8 Release

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

[3] Software Engineering Group Project: Welsh Vocabulary Tutor User Interface Use Case Document. Taavi Karvanen. Mariuz Bialoszewski. SE.QA.UIUC. 1.0

DOCUMENT HISTORY

| *Version* | *CCF No.* | *Date* | *Changes made to document* | *Changed by* |
| --- | --- | --- | --- | --- |
| 1.0 | N/A | 04/03/20 | N/A - original version | kab71 |
| 2.0 | 11.0 | 23/03/20 | merged sections “English dictionary” and “Welsh dictionary” to the one section called “Dictionary”, |  |
| 2.1 | 12.0  10.0 | 23/03/20 | Replaced “Revision List” to “Practice List”,  SE-F-025 updated with word « Hello »,  SE-F-026 updated with word « Diolch »  SE-F-020 updated with word « widow »,  SE-F-022 updated with word « widow »,  SE-F-024 updated with word « widow »,  added three new tests to the “Revision” section | izk |
| 2.2 | 09.0 | 23/03/20 | SE-F-001 specified with alphabetical order,  added new test SE-F-002 for scrolling through list | izk |
| 2.3 | 11.0 | 29/04/20 | Deleted SE-F-014, SE-F-017, SE-F-018, SE-F-019 | izk |
| 2.4 | 13.0 | 29/04/20 | Welsh translation of the word «Hello» updated with «shwmae», «CYM» button updated with «WelshFlag» button, «ENG» button updated with «EnglishFlag» button, Output field updated with displayed message in SE-F-008, SE-F-009, SE-F-010, SE-F-011, SE-F-012, SE-F-018, SE-F-024, SE-F-025, SE-F-026, SE-F-027, SE-F-028, SE-F-029, SE-F-030, SE-F-031, SE-F-032, SE-F-033, SE-F-034, SE-F-036, SE-F-037, SE-F-038, SE-F-039, SE-F-040, updated «Submit» button with «Add word» button in SE-F-013, SE-F-014, SE-F-015, “True” updated with the tick in SE-F-020, tests specified with “multiple choice question” in SE-F-039, SE-F-040, SE-F-041, «Show the translation» button replaced with «Flip» in SE-F-043 | izk |
| 2.5 |  | 30/04 | Displayed message updated in SE-F-016 | izk |