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 English dictionary 4

2.4 Welsh dictionary 6

2.5 Revision List 7

2.6 Settings 8

2.7 Revision 9

REFERENCES 10

# 

# 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 with their translations | Dictionary loaded in English |
| SE-F-002 | N/A | Checking if the app is saving the content of the user in its current state | Add the word «hell» 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-003 | FR2 | Switching to Welsh dictionary | Press the «CY» button | Displays a list of Welsh words with their translations | Dictionary loaded in Welsh |
| SE-F-004 | FR2 | Switching back to English dictionary | Press the «ENG» button | Displays a list of English words with their translations | Dictionary loaded in English |

## Searching

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-005 | FR3 | Check if the words are getting predicted in English | Press «ENG» button, type «hel» in the searching bar | Displays all words from dictionary starting with «hel» | Words are displayed correctly |
| SE-F-006 | FR3 | Check if the words are getting predicted in Welsh | Press «CY» button, type «hel» in the searching bar | Displays all words from the dictionary starting with «hel» | Words are displayed correctly |
| SE-F-007 | FR3 | Check different types of inputs in English | Press «ENG» button, type «£@#~» in the searching bar | The list of words in the dictionary is empty | Showing the empty list |
| SE-F-008 | FR3 | Check different types of inputs in English | Press «ENG» button, type «123» in the searching bar | The list of words in the dictionary is empty | Showing the empty |
| SE-F-009 | FR3 | Check different types of inputs in Welsh | Press «CY» button, type «£@#~» in the searching bar | The list of words in the dictionary is empty | Showing the empty list |
| SE-F-010 | FR3 | Check different types of inputs in Welsh | Press «CY» button, type «123» in the searching bar | The list of words in the dictionary is empty | Showing the empty list |

## English dictionary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-011 | FR5 | Add a new word to the dictionary | Press «+» button, type in word in English «widow», its translation «weddw» and set type as a verb | Home screen view, «New word added» message displayed, revision list updated with a new word | The word is added successfully to both dictionary and revision list, message displayed correctly |
| SE-F-012 | 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 | «Submit» button greyed out | Button remains not active |
| SE-F-013 | FR5 | Add new word to the dictionary with blank fields | Press «+» button, type in word in English «widow», its translation «weddw», leave word type field blank | «Submit» button greyed out | Button 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 | «Submit» button greyed out | Button remains not active |
| SE-F-015 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, leave all fields blank | «Submit» button greyed out | Button remains not active |
| SE-F-016 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, type in word in English «widow», leave the translation field blank, leave word type blank | «Submit» button greyed out | Button remains not active |
| SE-F-017 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, leave the field for English word blank, leave the field with welsh translation blank and set type as a verb | «Submit» button greyed out | Button remains not active |
| SE-F-018 | 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 | «Submit» button greyed out | Button remains not active |
| SE-F-019 | FR5 | Add the same word to the dictionary twice | Add a new word to the dictionary, try to add the same word once again | « Word’s already in the dictionary» message | Error message displayed |
| SE-F-020 | FR6 | Check if verbs are prefaced by “to” | Type «go» in the searching bar | Displays «to go» | Word displayed correctly |
| SE-F-021 | N/A | Delete newly entered word of dictionary | Press the right mouse button, click «delete» | Removing the word with its translation from the dictionary. Displays updated list. | List displayed correctly. The word is removed. |
| SE-F-022 | N/A | Check if it is case insensitive | Type «Hello» in the searching bar | Display «Hello» | Word is found and displayed correctly |
| SE-F-023 | FR4 | Add a word to your revision list | Double click on the word you want to add | Word is added to the revision list, marked as true in the dictionary | Revision list updated correctly |

## Welsh dictionary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-024 | FR5 | Add a new word to the dictionary | Press «+» button, type in word in Welsh «weddw», its translation «widow» and set type as a verb | Home screen view, «New word added» message displayed, revision list updated with a new word | The word is added successfully to both dictionary and revision list, message displayed correctly |
| SE-F-025 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, type in word «weddw» in Welsh, leave the translation field blank, set word type as a verb | «Submit» button greyed out | Button remains not active |
| SE-F-026 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, type in word in Welsh «weddw», its translation «widow», leave word type field blank | «Submit» button greyed out | Button remains not active |
| SE-F-027 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, leave the field for Welsh word blank, type in English translation «widow» and set type as a verb | «Submit» button greyed out | Button remains not active |
| SE-F-028 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, leave all fields blank | «Submit» button greyed out | Button remains not active |
| SE-F-029 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, type in word in Welsh, leave the translation field blank, leave word type blank | «Submit» button greyed out | Button remains not active |
| SE-F-030 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, leave the field for Welsh word blank, leave the field with English translation blank and set type as a verb | «Submit» button greyed out | Button remains not active |
| SE-F-031 | FR5 | Add a new word to the dictionary with blank fields | Press «+» button, leave the field for Welsh word blank, type in English translation «widow» and set type as a verb | «Submit» button greyed out | Button remains not active |
| SE-F-032 | FR5 | Add the same word to the dictionary twice | Add a new word to the dictionary, try to add the same word once again | Display “The word is already in the dictionary” message | Error message displayed |
| SE-F-033 | N/A | Delete newly entered word of dictionary | Press the right mouse button, click «delete» | Removing the word with its translation from the dictionary. Displays updated list. | List displayed correctly. The word is removed. |
| SE-F-034 | FR4 | Add a word to your revision list | Double click on the word you want to add | Word is added to the revision list, marked as true in the dictionary | Revision list updated correctly |
| SE-F-035 | N/A | Check if it is case insensitive | Type «Helo» in the searching bar | Display «helo» | Word is found and displayed correctly |

## Revision list

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-036 | FR4 | Delete word from the practise list | Double click on the word you want to delete | Word is removed from the practise list | Practise list updated correctly |
| SE-F-037 | FR4 | Delete word from the practise list | Right-click on the word you want to delete, press «delete» | Word is removed from the practise list | Practise list updated correctly |
| SE-F-038 | FR7 | Display list of words from the revision list | Press «Revision List» button | List of words in the practice list displayed | Words displayed correctly |

## Settings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-039 | N/A | Change the size of the font «medium» | Set font as «medium» | The font in the app changed to 18 pixels | Text displayed correctly |
| SE-F-040 | N/A | Change the size of the font «small» | Set font as «small» | The font in the app changed to 12 pixels | Text displayed correctly |
| SE-F-041 | N/A | Change the size of the font «large» | Set font as «large» | The font in the app changed to 28 pixels | Text displayed correctly |
| SE-F-042 | 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 | Settings updated correctly |
| SE-F-043 | 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 | Settings updated correctly |
| SE-F-044 | 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 | Settings updated correctly |
| SE-F-045 | 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 | Settings updated correctly |
| SE-F-046 | 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 | Settings updated correctly |
| SE-F-047 | 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 | Settings updated correctly |
| SE-F-048 | N/A | Change the language that you would like to be quizzed in | Set language as «Welsh» | Quizzes in Welsh | Settings updated correctly |
| SE-F-049 | N/A | Change the language that you would like to be quizzed in | Set language as «English» | Quizzes in English | Settings updated correctly |
| SE-F-050 | N/A | Change the language that you would like to be quizzed in | Set language as «both» | Quizzes in both English and Welsh | Settings updated correctly |

## Revision

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test ref | Req being tested | Test Content | Input | Output | Pass Criteria |
| SE-F-051 | FR9 | Check that the system treats correct input as a good answer in the input box | Add the word «hello» to the revision list, run test, enter «helo» in the input box, press «submit» | The score increased by 1, «Well done» message displayed | Message displayed correctly |
| SE-F-052 | FR9 | Check that the input in the box is case insensitive | Add the word «hello» to the revision list, run test, enter «Helo» in the input box, press «submit» | The score increased by 1, «Well done» message displayed | Message displayed correctly |
| SE-F-053 | FR9 | Check that the system treats incorrect input as a wrong answer in the input box | Add the word «hello» to the revision list, run test, enter «heelo» in the input box, press «submit» | The score stays the same**,** «Wrong answer» message displayed | Error message displayed correctly |
| SE-F-054 | FR9 | Check that the system takes the good answer as correct | Add the word «hello» to the revision list, run test, choose «helo» from the options, press «submit» | The score increased by 1, «Well done» message displayed | Message displayed correctly |
| SE-F-055 | FR9 | Check that the system takes the wrong answer as incorrect | Add the word «hello» to the revision list, run test, choose any answer apart from «helo», press «submit» | The score stays the same**,** «Wrong answer» message displayed | Error message displayed correctly |
| SE-F-056 | FR9 | Check that there are six different translations given | Run test, compare the answers | N/A | Six different answers displayed |
| SE-F-057 | FR10 | Check that overall score is correct | Press «Settings», Set number of test in the revision section as 10, give only two correct answers | Score displayed as «2/10» | Feedback displayed correctly |
| SE-F-058 | FR8 | Check if you can check the word’s translation from the flashcard | Add the word «hello» to the revision list, press «Revise», press «Flashcards», press press «Show the translation» | Translation «helo» displayed | Translation displayed correctly |

REFERENCES

[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 Projects: General Document Standards. C. J. Price. SE.QA.02 2.3 Release

1. Software Engineering Group Project: Quality Assurance Plan. C. J. Price. SE.QA.01 2.2 Release
2. Software Engineering Group Project: Producing the Final Report. C.J.Price. SE.QA.10 2.2 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

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