

Software Engineering Group Project Testing Document

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Test Specification

Test Ref	Req Being Tested	Test Content	Input	Output	Pass Criteria
SE-T-001	FR2	The dictionary can be ordered by the English words' order	An unordered list of all English words.	A now sorted list of words.	The dictionary is successfully ordered by the English words in alphabetical order.
SE-T-002	FR1	The system orders dictionary using English words by default	A list of words as loaded from the JSON file.	The list now sorted by the English alphabet.	When starting the software, the dictionary appears in the English order.
SE-T-003	FR2	The list is able to be ordered by Welsh words	An unordered list of all Welsh words	A now sorted list of words.	The system is able to order the dictionary in the Welsh order
SE-T-004	FR2	Special characters do not throw off	An ordered list of all welsh words.	A now sorted list of words	Special characters like "ô" do not affect the

		the ordering			ordering of the dictionary e.g. "tô" appearing after "tunell".
SE-T-005	FR1	User is able to scroll through the dictionary / list of displayed words.	Scroll bar that can be selected with mouse input from the user	Different part of the list displayed, based on the scroller's movement.	Words list displays words relevant to the scroll bar's position.
SE-T-006	FR3	When the user searches for a word, the correct words and translations appear.	Characters the user has input.	Corresponding words are listed.	Only words starting with inputted characters are displayed.
SE-T-007	FR3	When the user changes the search language the words reorder	Characters the user has input.	The corresponding words in the other language are listed.	When order language is changed, the words change to correspond to the search terms in

					the chosen language.
SE-T-008	FR4	The system stores words the user wishes to practice on	A word that is not currently part of the practice list.	The practice list should now contain the added word.	The practice list is modified correctly and stored.
SE-T-009	FR4	The user can add words to their practice list.	The contents of the practice list.	The list contains the word added.	The user can add words to the practice list without issue.
SE-T-010	FR4	The user can remove words from their practice list	The content of the practice list.	The practice list with the chosen word removed.	The user is able to remove words from the practice list without issue.
SE-T-011	FR4	The user cannot add the same word to the practice list twice.	A word that is currently part of the practice list.	The practice list remains unchanged	The user is unable to add a word to the practice list twice.
SE-T-012	FR5	The user can add their own word to the dictionary	A word that is not currently part of the dictionary	Some indication a new word has been added.	The user is able to add their own words, the words are also stored correctly.

SE-T-013	FR5	A blank word will not be added to the dictionary.	Submit a blank input as a new word.	An error saying the input is blank.	Nothing is added to the dictionary and an appropriate message is displayed to the user.
SE-T-014	FR5	All words must have a type	A word without a type listed.	An error saying all words need a type.	No changes are made to the dictionary and a suitable error is displayed.
SE-T-015	FR5	All words must have both an English and Welsh version	A word added with either an English or Welsh version missing.	An error saying a word needs to be in both Welsh and English to be added.	All words in the dictionary have a Welsh and English version, system displays appropriate error otherwise.
SE-T-016	FR5	The user can not add a duplicate word into the dictionary	A word already in the dictionary.	An error saying the word already exists.	No changes are made to the dictionary and an

					error is displayed.
SE-T-017	FR5	Words with illegal characters cannot be added.	A word not in the dictionary that contains an illegal character	An error saying the word is not valid.	Illegal characters that do not appear in either languages are not added into the dictionary, error message is displayed.
SE-T-018	FR5	Word types can only be masculine/f eminine nouns, verbs or other.	A word with a listed type that is not correct.	An error telling the user the type is invalid.	The user is unable to add a word with an unsupported type.
SE-T-019	FR5	New words are added to the practice list.	A new word.	An indication the word is now in the practice list.	Any new word is automatically added to the practice list.
SE-T-020	FR6	When a noun is displayed, the system shows what the words	Any noun from the dictionary	The welsh form's gender is shown.	All nouns in the dictionary show their gender

		gender is welsh is.			when displayed.
SE-T-021	FR6	When a verb is displayed the English form is prefaced by "to".	Any verb from the dictionary.	The English form has "to" before it.	All verbs in the dictionary are prefaced with "to"
SE-T-022	FR7	The user can view their practice list.	A button is pressed to bring the user's practice list up.	The practice list is displayed.	The user is able to access their practice list.
SE-T-023	FR7	The user's practice list will not be displayed if it is empty	A button is pressed to access the practice list.	An error is displayed saying the list is empty.	The user cannot access the practice list if there is nothing in it.
SE-T-024	FR8	User is able to generate English flashcards based on words in the practice list.	The contents of the practice list.	A flashcard containing a word from the practice list.	The user is able to see an English flashcard with a word from their practice list.
SE-T-025	FR8	User is able to generate Welsh flashcards	The contents of the practice list.	A flashcard containing a welsh	The user is able to see a Welsh

		based off the words in the practice list.		word from the list	word on a flashcard.
SE-T-026	FR8	User is able to see the flashcards translation after seeing the flashcard.	The word on the flashcard.	The translated version of the word on the flashcard.	The user is able to view the flashcards translation.
SE-T-027	FR8	The user is able to generate multiple flashcards based off the practice list.	A queue of all words in the practice list.	Words are taken out of the queue until the user is done.	User is able to go through flashcards one by one.
SE-T-028	FR9	A word is displayed, and the user is given 6 words to choose from for the correct translation.	A random word from the practice list.	A word for the user to translate from the practice list. 6 words as answers. One being from the correct answer, with the others	The user is given 6 options to choose as a translation for the displayed word, 5 are random 1 is correct. System behaves appropriately when a

				being randomly picked from the dictionary, all unique.	right or wrong answer is picked.
SE-T-029	FR9	User is given a word in one language and asked to translate it.	Translation to displayed word typed by the user.	A message is displayed if the user is incorrect, otherwise the user is told their answer was correct.	System is able to see if the user typed the correct translation.
SE-T-030	FR9	User is given 4 words and their translations all jumbled up, must match them.	Pairs of words from the practice list sorted by the user.	User is told if they are right or wrong.	System checks if the user matched all words correctly, and behaves appropriately.
SE-T-031	FR9	Jumble practice method is only available if there are at least 4 words in	The contents of the practice list.	An error is thrown if there are not at least 4 words in the practice list.	The practice method will not start unless there are 4 or more words in

		the practice list.			the practice list.
SE-T-032	FR10	User is able to run tests from their practice list.	User presses a button to sort practicing.	System queues several practice methods for the user.	Several practices are queued up for the user to go through. (Selected randomly)
SE-T-033	FR10	User has a tally of how many tests they got right	A tally is increased every time the user gets a test right.	The tally is output once all tests are over.	With every test the user passes they are given a point, the tally of these points is kept and displayed once all tests are done.
SE-T-034	FR10	User is given positive feedback on getting a test right.	The test output saying the user passed it.	Some kind of congratulatory message to encourage the user.	The system displays positive feedback to the user when they pass tests and do well.

SE-T-035	FR10	User is given the correct answer to a test after getting it wrong.	The test output saying the user has failed.	The correct answer is displayed.	The user is shown the correct answer to the previously completed test after failing it.
SE-T-36	PR1	Any user input is reflected onscreen within 1 second.	Any input provided by the user	The user's input displayed on screen	Any input is reflected on the users' screen within a second.
SE-T-37	PR2	The software runs on a standard PC within the Department of Computer Science	The software is run.	The software displays and runs correctly.	The system runs correctly on a standard pc.

References

- SE.QA.06 - Test Procedure standards [1]
- Requirements Specification for Welsh Vocabulary Tutor [2]
- SE.QA.04 - User Interface Specification Standards [3]
- SE.QA.02 General Documentation Standards [4]