Software Engineering Group Project

Welsh Vocabulary Tutor User Interface Use Case Document

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| Config Ref: | SE.QA.UIUC |
| Date: | 17th February 2020 |
| Version: | 2.0 |
| Status: | Release |

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# Introduction

## Purpose of this Document

The purpose of this document is to describe the use cases regarding the Welsh Vocabulary Tutor application. Furthermore, it aims to describe the typical user(s). Finally, this document has the goal of listing possible error conditions that can happen during runtime.

## Scope

This document specifies how the user Interface will work, describing who is using it, how and in which way any errors are handled.

This document is to be looked at during development to ensure all use cases are represented in the final document. All group members should be familiar with this document and use it as a reference when needed.

This document is also meant for the client to be acquainted with all the use cases for the final product.

## Objectives

This document is meant to aid the production of the user interface to make sure all requirements provided by the client are met, making clear what the user can do when they interact with the system.

# BODY OF DOCUMENT

## Typical users

**2.1.1 General user**

The user is experienced with using computers and wants to learn Welsh. It is assumed that they have no prior experience learning languages but may have some knowledge in Welsh or another gendered language already.

**2.1.2 Specific users**

* Kain is a 27-year-old Biology teacher who used to live in Birmingham and has just moved to Aberystwyth. Previously he has not had any contact with the Welsh language. He finds it fascinating and decides to learn Welsh. He has learned French previously in school, so he has a good grasp on gendered languages, but doesn’t have any idea of the welsh vocabulary as it’s a unique language.
* Martha is 18-year-old college student that lives in Cardiff. Her parents are both from Slovakia, but she was born in Cardiff, couple years later after her parents settled there. She was raised in Slovakian-English culture and now she is proficient in English. She knew she lives in Wales, but never bothered to understand how Welsh works. Now she applied to the Aberystwyth University and received her first letter fully in Welsh. She got interested in that language and she wills to learn it.

## Use cases

### User can resize window of the app

User can resize the window by dragging the corners of the app.

### User can look at dictionary of all words

User can navigate to the dictionary by selecting the “DICTIONARY” button in the main bar along the top of the screen. Once selected the list of all words is displayed each showing a column for English, Welsh, and type of word. Type of word describes whether the word is masculine or feminine noun in welsh or if it is a verb as well as an ‘other’ type.

### User can search for words from the dictionary

User can use the search box to look up words they desire. The user will then see a list of words matching what is currently typed into the search bar, the list is narrowed in real time as the word is being typed.

### User can search for words starting with a specific letter

When the user wishes to narrow down the list to words that start with a specific letter, they can use the button labelled “abc”. When pressed, a menu composed of the current active language’s alphabet is opened. Each letter is a separate button and clicking on one closes the window, filling out the search bar with that letter.

### User can scroll list of words to find desired word

User can scroll the list by dragging the scroll pane located on the right side of the window. The scroll can be dragged either up or down. Furthermore, the user can choose to scroll with his mouse or touchpad.

### User can add words to their Revision List

The user can add a word to their Revision List by double clicking on the desired word in the dictionary list. The word will be marked for Revision List with status change to “true”. This can be view by selecting “REVISION LIST” section in the main bar along to top of the application

### User can add new words into the dictionary

The user can press the floating green plus button located on the bottom right corner of the window. A dialog box is opened in the middle of the screen after the user clicks the button. The dialog box consists of the English and Welsh definition boxes and a drop-down menu to select the word type. There is a “Add new word” button that is inactive on opening. Once the user has filled in all the required boxes, the button “Add new word” changes colour and becomes active. Once the “Add new word” is clicked, the word is added to the dictionary and Revision List, then the dialog box is closed. The user returns to “DICTIONARY” section.

### User can change the language by which words are sorted

The user can click on the button located next to the search bar. The button depicts the current language, presented as United Kingdom flag for English and a Welsh flag for Welsh. When clicked, the language in which the words are sorted is changed and the button takes on the appropriate label. Afterwards, the table is sorted alphabetically by the current language. The sorting carries over to the narrowing list in Use Case 2.2.2.

### User can remove words from the dictionary

The user can remove words from dictionary by right clicking the word, a drop-down menu is then displayed giving the options “DELETE” and “EDIT”. When “DELETE” is chosen, the word will be removed from the dictionary.

### User can edit words from dictionary

The user can edit words from the dictionary by right clicking the word. When right clicked a drop-down box is then displayed, giving the options “DELETE” and “EDIT”. When edit is selected a dialog window is shown, this contains two textboxes, one drop-down menu and a confirmation button. Here the user can edit the English definition, Welsh definition and the type of the word. Once they click the "Revise word” button, the dialog box is closed.

### User can add/remove words from the Revision List

The user can add words to the Revision List by double clicking the word in the dictionary list. Once clicked, the word is added to the Revision List. The user can remove the word from the Revision List by double clicking on the word in either the Revision List or the Dictionary. Once removed, the word will disappear from the list.

### User can clear the whole revision list

The user can reset their revision list, remove all words from it, by selecting the “SETTINGS” button in the main bar along the top of the screen. Here the user selects the button labelled “CLEAR REVISION LIST” with a description next to it. A notification box is shown asking the user if they are sure they want to clear the whole Revision List with two buttons “CONFIRM” and “CANCEL”. The user selects “CONFIRM” and the Revision List is cleared. The notification box is then closed, and they are returned to Settings.

### User can revise words from the Revision List

When the user wants to revise the words from the Revision List, they click on the button along the top of the screen labelled “REVISE”. This shows them a new page containing two buttons, “FLASH CARDS” and “QUIZ”. From here they can choose two ways to revise, these two options are described in use cases 2.2.12 and 2.2.13.

### User can use flashcards to revise

Once the user chooses the “Revise” menu and clicks on the “Flashcard” option, they’ll be presented with a flashcard (only if they have at least one word added to the revision list). They can flip the flashcard to see the definition in the other language by clicking the Flip button. The user can click the “NEXT” button when they want to see a new word or click the “BACK” button if he wants to see the previous one word.

### User can take tests

Once the user chooses the “Revise” menu and clicks on the “Quiz” option, they’ll be presented with a quiz of various tests, with the amount dependant on the setting they have chosen in the “Settings” menu. They’ll be presented one of three tests at a time.

1. Find the definition – The user will be presented a word in a language (dependant on the language setting in the “Settings”) and they’ll be shown 6 random words from the dictionary in the other language. They must choose the correct matching definition.
2. Input box – The user will be presented a word in a language (dependant on the language setting in the “Settings”) and they’ll have an input box. They must write the correct definition in the input box.
3. Matching – The user will be presented 4 words in a language (dependant on the language setting in the “Settings”) and they’ll be shown 4 drop-down menus with the matching definitions to the word. They must match up each word to its correct definition in the other language.

There is a running indicator in the form of a progress bar to show how many of the questions the user has answered correctly. There is also a numeric indicator for how many questions have been answered out of the total number of questions.

After each question a notification box is presented giving feed back:

* If the question is fully correct and positive message is displayed in the notification box
* If the question was answered incorrectly then the correct answers are displayed in the notification box

Once the quiz is complete the user will see a dialog box giving feedback on how many questions they got correct and incorrect. Once closed they are returned to the “REVISE” section.

### User can change settings for revision

User can click on the button “Settings” on the main menu bar at the top of the screen. On the settings page the user can change

* How many tests are used in a single quiz (5 or more in increments of 5 up to a maximum of 30)
* What language should be used for the tests and flashcards (English, Welsh or both)
* Click on the Help button for a help screen

### User can change the size of the font

Welsh Vocabulary Tutor is accessibility friendly. User can change the size of the font presented in the application. Once they click the “Settings” button located in the navigation menu, they can choose from one of three options available

* Small – 12 pixels
* Medium – 18 pixels
* Large – 28 pixels

After choosing those options, the user will see the change of font size in Main and Revision List section.

### User can look at help section

User can find all the instructions how to use the app by clicking on Settings and clicking on “HELP” button.  From there the dialog box opens with all the information how to use the application

## Error conditions

Possible error conditions:

* Empty box - user doesn’t input the word when he is supposed to
* Incorrect input - when user input is required it of the wrong type
* User chooses to open Revise section where there are no words added to revision list

REFERENCES

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

DOCUMENT HISTORY

| *Version* | *CCF No.* | *Date* | *Changes made to document* | *Changed by* |
| --- | --- | --- | --- | --- |
| 1.0 | N/A | 17/02/20 | N/A - original version | tak16 |
| 2.0 | N/A | 5/03/20 | Replaced “Practice List” to “Revision List” | mab152 |