Documentation

For our application GUI we used an external library called wxWidgets. You can find more about this on their official website: <https://www.wxwidgets.org/>

The description of the functionalities is as follows:

- Paragraph class

- used to simplify working with paragraphs

- contains different characteristics of a paragraphs

- countWordInText

- counts the appearances of a word in a text

- uses two parameters:

- string text : the text in which the words are searched

- string word : the string containing the words

- implements the idea of a stemming algorithm

- returns a score representing the number of matches in a text

- splitTextIntoParagraphs

- it splits a text into paragraphs

- uses four parameters:

- string text: the text to split into paragraphs

- string file: the file in which we search (for later use)

- Paragraph paragraphs[]: a Paragraph array

- int &n : the variable which will return the length of the array

- scoreParagraphs

- it attributes a score to each paragraph representing the number of matches

- uses three parameters:

- Paragraph paragraphs[] : the paragraph array

- int n : length of the array

- vector<string> words : words array

- modifies the score attribute of each paragraph

- sorts the paragraph array based on each paragraph's score

- showParagraphs

- shows the paragraphs

- uses two parameters:

- Paragraph paragraphs[] : paragraph array

- int n : length of array

- findLearningSources

- shows the available learning sources

- openFile

- opens the selected learning source

- uses one parameter:

- string input : the name of the source

- searchFor

- searches for the words

- uses one parameter:

- string input : the words to be searches

- feelingLucky

- returns a random paragraph