WORD COUNTER

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SUMMARY AND PURPOSE

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The word counter program is a GUI application which can open up a text document, read in and count all the occurrences of each word, and write the counts into a separate text file.

The word counter program helps to accurately count the number of words in a document and the occurrences of every word.

1.1 System Requirements

- Java Development Kit (JDK) version 8 or higher
- Text Document in plain text format

2.0 SYSTEM FEATURES

- Reading in a text document
- Removes punctuations, hyphens, and other unwanted characters
- Counts the occurrence of every word
- Writes the counts into a separate output text file
- Provides a way to count the total number of words in the document

2.0 Requirements

2.1 Functional Requirements

- The program must allows the user to enter a specific path for the document to be read in
- The program must read the document and counts the occurrences of every word
- The program must remove all punctuations, hyphens, and other unwanted characters from the document
- The program must output another text file with the results
- The program must get a total count of all the words in the document

2.1 Non-Functional Requirements

- The program must all small and large input files
- The program must be easy to use and require minimal user inputs
- The program must be reliable and produce accurate results
- The program must be efficient and use minimal system resources (no unnecessary methods or unused resources)

3.0 Architecture

The project uses different Java imports/libraries to execute the word count including: BufferedReader, BufferedWriter, FileReader, FileWriter, HashMap, and Map. Other methods include:

'removePunctuations'

This method takes in a string as a parameter and removes all punctuations, such as commas, periods, and quotation marks.

'removeHyphens'

This method takes in a string as a parameter and removes all hyphens.

'getWordCount'

This method takes in the file path of the output file as a parameter and returns the total word count