

Software goal:

Create a unique word counting application with a Command Line and Graphical User interfaces.

Class Functions and descriptions:

- CMInterface Class
 - Main: Initializes objects and counting algorithm.
 - Accepts file as argument when running application
- Counting Class
 - Reporting
 - Print best 5
 - Print last 5
 - Make file of complete list
 - Document object creation
 - Word list object
 - Hash map for tracking words
 - Get next word:
 - Returns the next word in the document
 - Checks for split word
 - Sends words to be cleaned
 - Returns word
 - Counting words
 - Asks for new words
 - Tallies words in word list
 - When finished, triggers reporting of findings
- Data cleaning Class
 - Data cleaning:
 - Chooses the correct function to call in cleaning words. Function can call:
 - Split word cleaning
 - Punctuation Removal
 - Case normalization
 - Split word cleaning:
 - For when words are broken at the end of a line, this function gets the next 'word', concatenates them and returns the word.
 - Punctuation Removal:
 - Find and removes all punctuation
 - Case normalization:
 - Normalizes word case to lower case.
 - Count word:
 - Tracks words and counts them, stored in a hash map
- GUIInterface Class
 - To be documented.