Software goal:

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

Nonfunctional design decisions

I have switched from using a buffer reader to a Scanner. I am keeping the code for the bufferreader and continuing development

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
* GUInterface Class
  + To be documented.