# REQUIREMENTS DOCUMENT

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| **Date Submitted:** | Due Date of Assignment  **3/17** |
| **Application Title:** | Name of Program  **Hh\_9\_5 / Word Frequency** |
| **Purpose:** | What the program will do  **The program will read the contents of a text file and transfer them into a dictionary where the unique words in the file will be the key and the number of times that unique word is listed is the value.** |
| **Program Procedures:** | Procedures to follow when using the program   1. **Run the program.** 2. **Read the text file into a dictionary.** 3. **Set the unique words as the keys.** 4. **Set the number of times each unique word was used as the value.** 5. **Print the dictionary.** 6. **End the program.** |
| **Algorithms, Processing, and Conditions:** | 1. **Prompt the user for a file, allow user to press enter to use the default file text.txt.** 2. **Open the file for reading, enter the words into a list using the split method.** 3. **Close the file.** 4. **Remove punctuation from the list using a for loop and the strip method, also change all words into lowercase so that the set method will not consider punctuated or Proper capped words as separate unique words.** 5. **Put the list into a set.** 6. **Use a for loop to count the number of times each unique word is repeated in the set.** 7. **Display the dictionary keys and values with a header.** |
| **Notes and Restrictions:** | None. |
| **Comments:** | None. |