**Requirements Document**

**Project: Frequency of distinct words in an input**

1. **Introduction**

The word count project will demonstrate all software engineering practices with a small implementation of a personal project. This project finds the frequency of each distinct word in each string input.  The string is passed to a program as a text file. The program reads files and considers spaces, newline characters, and tabs as delimiters to split sentences into words. The words are then stored in a list, and the list is iterated to find each word's occurrence.

1. **Out of scope functional requirements:**

Following functionalities are out of scope of this project development phase-

* 1. Correcting the spelling mistakes.
  2. Period (.) and comma (,) are not considered as delimiters.
  3. Grammatical errors are also out of scope.
  4. The lower case and upper case are treated as different words.

1. **Other requirements:**

**Language used:** Any programming language can be used. This project uses python.

**Code editor:** VSCode Editor

**Source control:** Github

1. **Functional requirements:**
2. The empty string should give an empty list with no words.
3. The string with one word must give one word as output in list.
4. The string with space in between each word should give expected output.
5. The string with many lines should identify the newline character and give correct word count.
6. The string with a tab between each word should omit the tab , consider it as delimiter.
7. The string with large size should pass too and the string should give correct word count.
8. Special characters in a string will be considered as a character and will print separate words.
9. String with alphanumeric words is considered as unique words such as abc123 6abc789