**Beteab Gebru**

**Compilers I – Project 1 : Iteration 1 9/21/2018**

**Software Design Document**

**The WordCounter**

The program will initially be designed with command line interface to take in name of a document from a user which must be placed in the same directory as the program.

The main() function will take the name of the text document as an argument, which in turn is presented by the user to the system.

The program intends to use some libraries such as the hash maps, scanner from java library to read words. The functions will be modified to use several symbols and spaces as delimiters for the words.

**java.util.HashMap**

**import java.util.Scanner;**

For every word that is found the program will build a ha