**Overview**

This program will take in a text document and display the number of words and how many times each word is displayed in the text. This program will use a GUI to accomplish this. The user will be able to select which .txt file they want to have analyzed. They also have the ability to drag and drop a text file onto the GUI itself. The program will use a hash map to keep track of each word and its frequency. This program will ignore punctuation and case.

**Design**

The GUI class will be the driver class. It’ll allow the user to select a file from their system, using a Graphical file chooser menu. The GUI TextArea will allow the user to drag and drop a text, and only a text file for analyzing. When the user is trying to drag and drop a document onto the drop area, the border will thicken and change to green showing that they are dropping a valid file. If the user doesn’t have the proper file type, the border will thicken and turn red, showing that they can’t drop that file on the area. After the user has selected text file that they want to have analyzed, it’ll send that file to the ReadCount class. The ReadCount class will go through the file and each time it sees a word, it’ll add it to a HashMap. Once it’s done, the main class will retrieve a String version of the HashMap and display it on the GUI.

C:\Users\Greg\Downloads\Untitled Diagram.png

**Change Log**

9/30/16 – Updated SDD and README

9/29/16 – Changed the theme to be dark.

9/27/16 – styled the hashmap string.

9/25/16 – Added another variable to the GUI class in order to save and display the name of the file being analyzed.

9/24/16 – Implemented drag and drop functionality.