USER GUIDE

TextFormatter

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1   INTRODUCTION

Introduction section is a comprehensive review of what services the system meant to provide to the user.

1.1   System Overview

TextFormatter is a system, which allows the user to format a text file (.txt extension). The system provides the user with the ability to format a text file of any size.

The system allows the user to format the file in two ways:

- Left justified
- Right justified

Besides, TextFormatter displays an analysis of the formatted text file. The statistics for analysis are listed below:

- Number of words processed.
- Number of lines in the output file.
- Number of blank lines removed.
- Average words per line in the output file.
- Average line length in the output file.

2   GETTING STARTED

This section helps you walk through on how to obtain and download TextFormatter on your computer

2.1　System Requirements

TextFormatter is a program written in Java. The user is able to use TextFormatter on any types of operating systems, including Windows, Mac OS X, UNIX, Linux, etc. Before you run TextFormatter, please make sure you have Java installed on your computer.

2.2　Download TextFormatter

TextFormatter is an open source program. The latest version of TextFormatter is available for download from https://github.com/lamontano/CSE360_Project. It is a Java program that can be easily installed. For detailed instruction on how to install TextFormatter on your computer, please refer to README file on the above website.

3   USER INTERFACE

The user interface is meant to provide the user a simplified way to navigate through the application.

3.1   User Interface Overview

Fig. 1 shows the user interface of TextFormatter. The user can select the input and output path. If the output path does not exist, the system will automatically create it. The user also has the option to specify whether to format the file left justified or right justified. After the user has selected the input file and output path, pressing the *Format File* button will carry out the desired operation. The statistics for format analysis is clearly shown on the user interface. The system also provides a simple instruction on how to user TextFormatter.
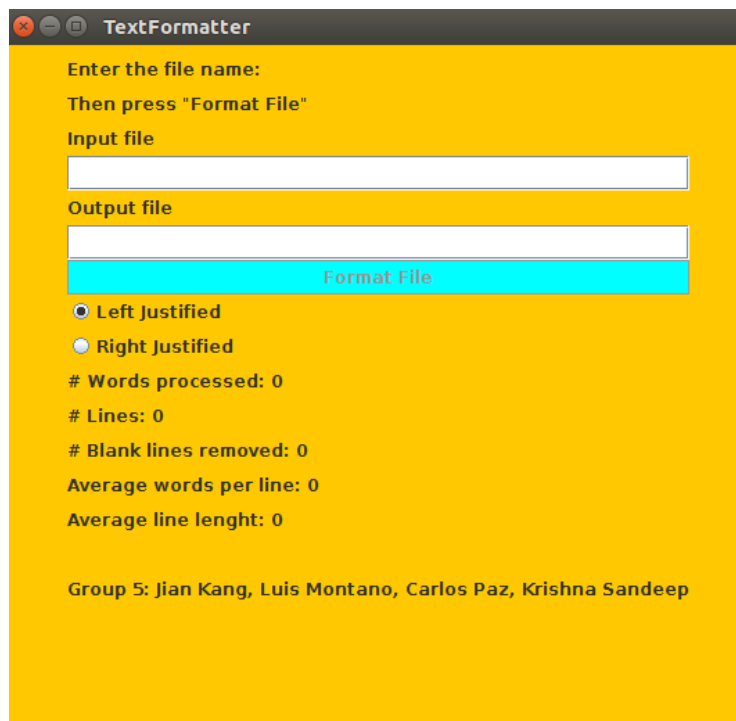

Figure 1. User Interface of TextFormatter

3.2   Description of Options

The application consists of two fields. The first one, named *Input file*, is where the user select the name of the input text file. The second field, named *Output file*, is the place where the user select the preferred path to write the output text. There are two options to choose the way the user wants to format the file (*left justified* or *right justified*). The default choice is set to be *left justified*. Once the user presses the Format File button, the system will start formatting the text in the input file to the output path.

4   INPUT AND OUTPUT

This section provides some samples of inputs and outputs for the system, as well as errors and problems the user may encounter in using Textformatter. The screenshots of these inputs and outputs can be found in Appendix A.

4.1 A Text file with All Characters in One Line

4.1.1 Left Justified

A. Input Text
A delimited text file is a text file used to store data in which each line represents a single book company or other thing and each line has fields separated by the delimiter Compared to the kind of flat file that uses spaces to force every field to the same width a delimited file has the advantage of allowing field values of any length

B. Output Text
A delimited text file is a text file used to store data in which each line
represents a single book company or other thing and each line has fields
separated by the delimiter Compared to the kind of flat file that uses spaces to
force every field to the same width a delimited file has the advantage of
allowing field values of any length

C. Analysis
Number of words processed: 64
Number of lines: 5
Number of blank lines removed: 0
Average words per line: 12.8
Average line length: 10.8

4.1.2 Right Justified

A. Input Text
A delimited text file is a text file used to store data in which each line represents a single book company or other thing and each line has fields separated by the delimiter Compared to the kind of flat file that uses spaces to force every field to the same width a delimited file has the advantage of allowing field values of any length

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4.2 A Text file with Different Number of Character in Lines

4.2.1 Left Justified

A. Input Text
A delimited

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C. Analysis

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Number of lines: 5
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Average words per line: 12.8
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4.2.2 Right Justified

A. Input Text

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A delimited text file is a text file used to store data in which each line
represents a single book company or other thing and each line has fields
separated by the delimiter Compared to the kind of flat file that uses spaces to
force every field to the same width a delimited file has the advantage of
allowing field values of any length

C. Analysis

Number of words processed: 64
Number of lines: 5
Number of blank lines removed: 0
Average words per line: 12.8
Average line length: 10.8

4.3   A Text file with Blank Lines and Tabs

4.3.1 Left Justified

A. **Input Text**
A delimited
text

 file is
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text file used

to
store data in   which each line represents a single book company or other thing and each line
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separated by   the delimiter
Compared
to the kind of flat file that uses spaces to force every field to the same width
a delimited file has the advantage of allowing field values of any length

B. **Output Text**
A delimited text file is a text file used to store data in which each line
represents a single book company or other thing and each line has fields
separated by the delimiter Compared to the kind of flat file that uses spaces to
force every field to the same width a delimited file has the advantage of
allowing field values of any length

C. **Analysis**
Number of words processed: 64
Number of lines: 5
Number of blank lines removed: 0
Average words per line: 12.8
Average line length: 10.8

4.3.2 Right Justified

A. **Input Text**
A delimited
text

 file is
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store data in   which each line represents a single book company or other thing and each line
has fields
separated by   the delimiter
Compared
to the kind of flat file that uses spaces to force every field to the same width
a delimited file has the advantage of allowing field values of any length

B. **Output Text**

> A delimited text file is a text file used to store data in which each line represents a single book company or other thing and each line has fields separated by the delimiter Compared to the kind of flat file that uses spaces to force every field to the same width a delimited file has the advantage of allowing field values of any length

C. Analysis
Number of words processed: 64
Number of lines: 5
Number of blank lines removed: 0
Average words per line: 12.8
Average line length: 10.8

4.4   A Text file with Words Longer Than 80 Characters

4.4.1 Left Justified

A. Input Text
A delimited text file is a
text file used
to
store data in which each line represents a single book company or other thing and each line
has fields
separated by the delimiter
Compared
to the kind of flat file that uses spaces to force every field to the same width
a delimited file has the advantage of allowing field values of any length
###################################thisisawordwithover80characters#####################
#########

B. Output Text
A delimited text file is a text file used to store data in which each line
represents a single book company or other thing and each line has fields
separated by the delimiter Compared to the kind of flat file that uses spaces to
force every field to the same width a delimited file has the advantage of
allowing field values of any length
###################################thisisawordwithover80characters#####################
#########

C. Analysis
Number of words processed: 65
Number of lines: 6
Number of blank lines removed: 0
Average words per line: 10.833333333333333
Average line length: 70.833333333333333

4.4.2 Right Justified

A. Input Text
A delimited text file is a
text file used
to
store data in which each line represents a single book company or other thing and each line
has fields
separated by the delimiter

Compared
to the kind of flat file that uses spaces to force every field to the same width
a delimited file has the advantage of allowing field values of any length
##################################thisisawordwithover80characters#####################
########

B. **Output Text**

A delimited text file is a text file used to store data in which each line
represents a single book company or other thing and each line has fields
separated by the delimiter Compared to the kind of flat file that uses spaces to
force every field to the same width a delimited file has the advantage of
allowing field values of any length
##################################thisisawordwithover80characters#####################
########

C. **Analysis**
Number of words processed: 65
Number of lines: 6
Number of blank lines removed: 0
Average words per line: 10.833333333333333
Average line length: 70.833333333333333

4.5   Errors/Messages

4.5.1 File Type Not Supported

TextFormatter only supports text files with .txt extension at present. If the user selects a file with other
extensions, the system will raise an error with message "ERROR: File type not supported".

4.5.2 Output File Path Not Specified

TextFormatter needs the user to specify the output path before formatting the input file. If the path is not
declared before pressing the *Format File* button, the system will raise an error with message "ERROR:
Output file path not specified".

4.5.3 Input File Not Found

If the user does not select an input file, TextFormatter disables the *Format File* button. However, if the
file is deleted or moved to other locations after the user selects the input file but before pressing the
button, the system is unable to find the input file, then it will raise an error with message "ERROR: Input
file not found".

4.2.4 Error Uploading File

During uploading the file, system failures or other problems may occur. And file uploading may not be
successful. If the above situation occurs, TextFormatter will raise an error with message "ERROR: Error
uploading file, please try again".

4.6   Other Problems

4.6.1 Operating System Compatibility

TextFormatter is a Java program. In most cases, the program is able to run on any types of operating
systems that supports Java, which includes Windows, Mac OS X, UNIX, Linux, etc. However, if there is
an operating system that do not supports Java, TextFormatter may not be able to run. To avoid this

problem, please make sure your operating system supports Java before you download and install TextFormatter.

4.6.2 No Enough Space to Install

TextFormatter does not require much space for the user to install. But there could be a chance that the user does not have enough space to install the program. To avoid this problem, please make sure your disk has enough space to download and install TextFormatter.

APPENDIX

A.   SAMPLE INPUT AND OUTPUT FILES

Here we provide the screenshots of sample input and output that mentioned in Section 4.

A.1   A Text file with All Characters in One Line

A.1.1 Left Justified

Below are the sample input and output files in left justified format.
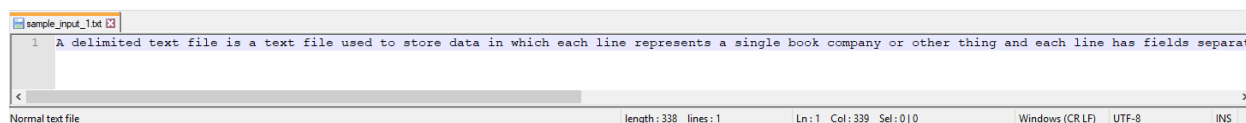
Figure 2. Sample Input File
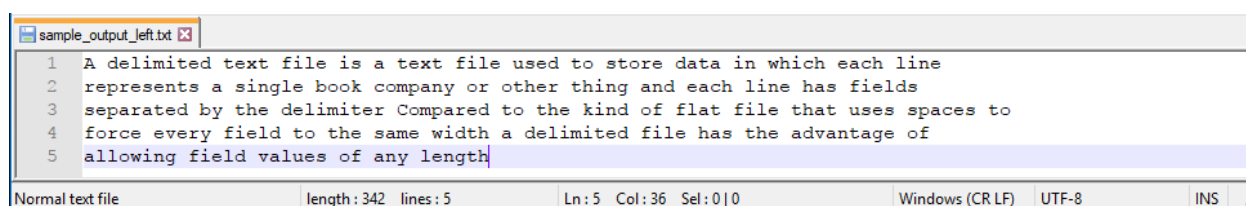
Figure 3. Sample Output File

A.1.2 Right Justified

Below are the sample input and output files in right justified format.
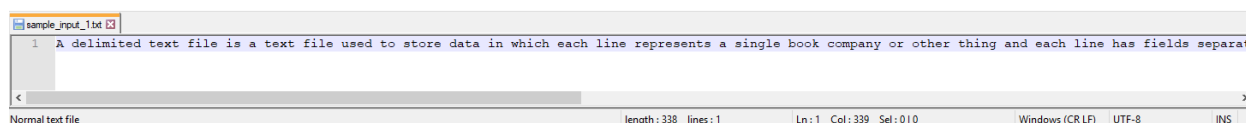
Figure 4. Sample Input File
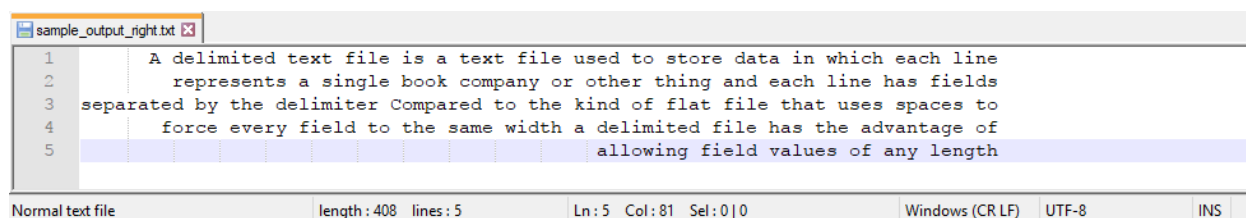
Figure 5. Sample Output File

A.2   A Text file with Different Number of Character in Lines

A.2.1 Left Justified

Below are the sample input and output files in left justified format.

Figure 6. Sample Input File

Figure 7. Sample Output File

A.2.2 Right Justified

Below are the sample input and output files in right justified format.

Figure 8. Sample Input File

Figure 9. Sample Output File

A.3 A Text file with Blank Lines and Tabs

A.3.1 Left Justified

Below are the sample input and output files in left justified format.

Figure 10. Sample Input File

Figure 11. Sample Output File

A.3.2 Right Justified

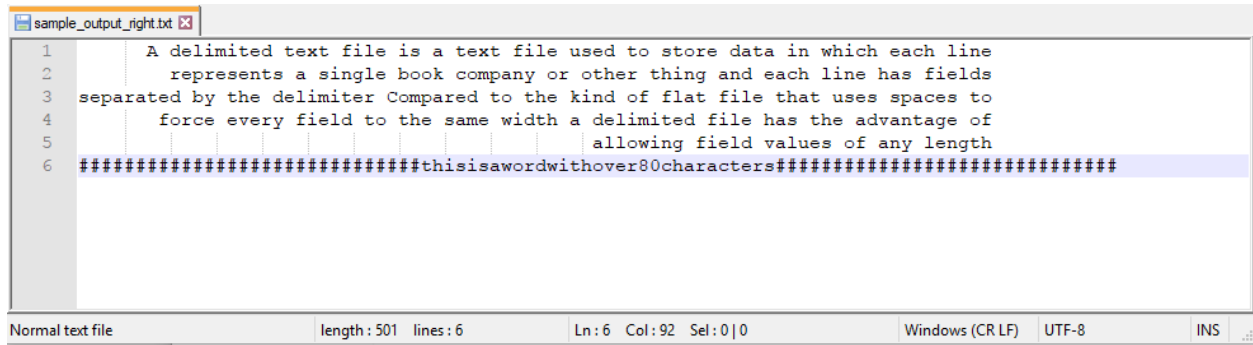Below are the sample input and output files in right justified format.

Figure 12. Sample Input File

Figure 13. Sample Output File

A.4 A Text file with Words Longer Than 80 Characters

A.4.1 Left Justified

Below are the sample input and output files in left justified format.

Figure 14. Sample Input File

Figure 15. Sample Output File

A.4.2 Right Justified

Below are the sample input and output files in right justified format.

Figure 16. Sample Input File

Figure 17. Sample Output File

B.   GLOSSARY

TextFormatter: a system, which allows the user to format a text file (.txt extension).

Left justify: text is aligned along the left margin of the file.

Right justify: text is aligned along the right margin of the file.

File path: the general form of the name of a file or directory that specifies a unique location in a file system.

Desktop application: an application that runs stand-alone in a desktop or laptop computer.

Operating system compatibility: the ability that a particular software runs on different types of operating systems without having to be altered to do so.