User Guide

CSE 360 - Intro to Software Engineering

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Introduction

Welcome to the GUI User Guide. This user guide contains all the information necessary for the user to make full use of the GUI through a step by step user guide on implementing a GUI. This document contains information regarding formatting text and its error conditions Additionally, this document includes descriptions and diagrams of certain functions while maintaining a structured format.

Overview of Program

This program formats text that is taken as input and assigns appropriate flags within the text to create a certain output. Given certain flags, the program must perform certain actions onto statements that can be in different forms such as a paragraph or simple sentences. In order to successfully use the program that formats text, the user must load a text file. Then, the user can view the formatted text in the preview box which will show the output of the formatted text file with inputted flags. If any issue occurs during file loading, saving or general formatting, an error will appear in the text box above the preview

External Requirements

External requirements that are needed to execute this program include a text file ending in ".txt". The formatting flag must be placed prior to the targeted text line for proper formatting (see page 5). User input shall be controlled by hardware interfaces such as keyboards or mouse clicks. The UI consists of a general layout with four horizontal bars labeled such as load text file, save the file as, show error log, and preview formatted text. An error log and preview space appear below the buttons, labeled "Error Log" and "Preview" respectively.

Getting Started

The starting view of Text Formatter is shown below
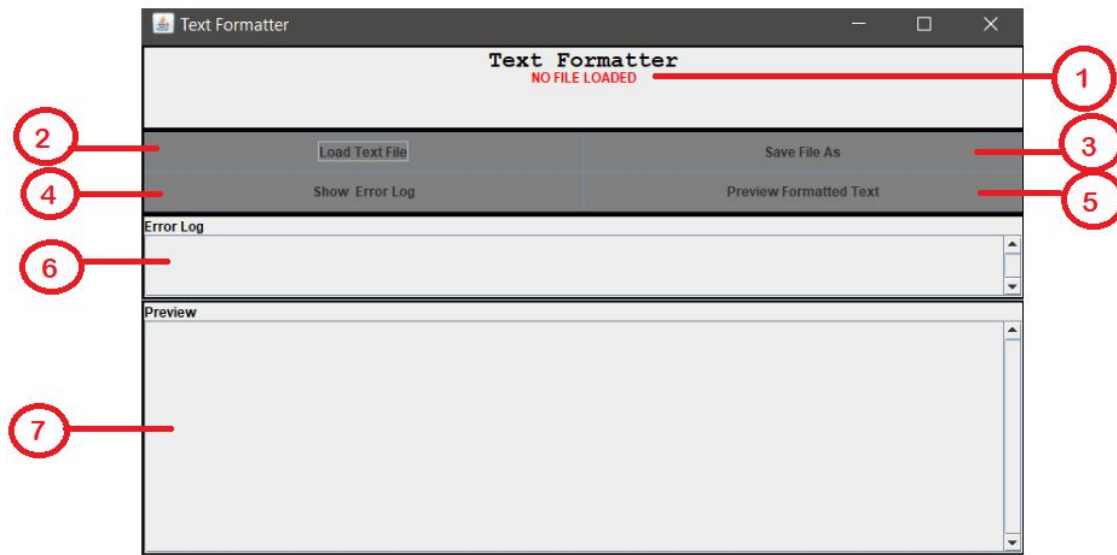
1 - indicates the name of the currently loaded file (No file is initially loaded)

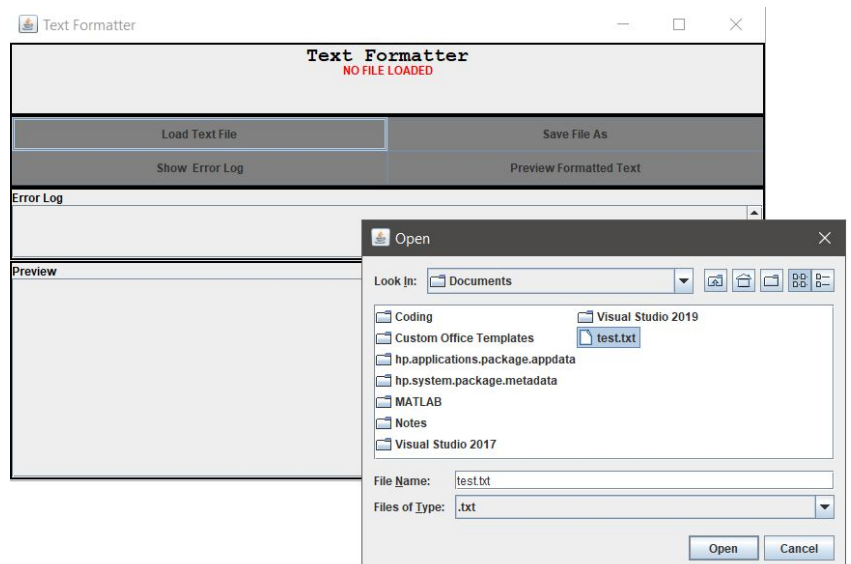**2 -** allows users to choose a text file (see below)

3 - allows users to save a formatted version of the loaded text file (page 4)

4 - allows users to see an error log made during text formatting (page 4)

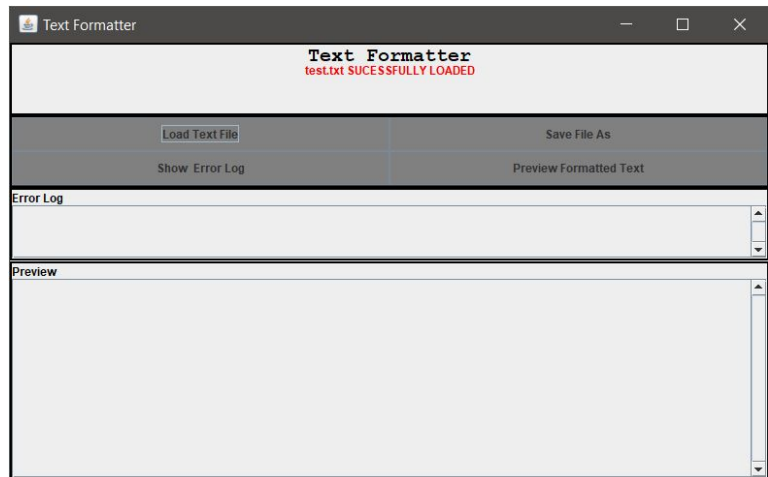**5 -** allows users to preview formatted version of text file (page 5)

6 - displays the error log (page 4)

7 - displays the preview log (page 5)

Loading a File

1) Selecting the "Load Text File" button prompts the user to select a file from the computer's directory **NOTE:ONLY TEXT(.txt) files are accepted**

2) If the text file was loaded successfully, the indicator will update accordingly.

Saving a File

1) If the file was loaded correctly, selecting the "Save Text File" button prompts the user to select the save destination of the formatted file. **NOTE: Formatted files can only be saved in a text (.txt) file.**
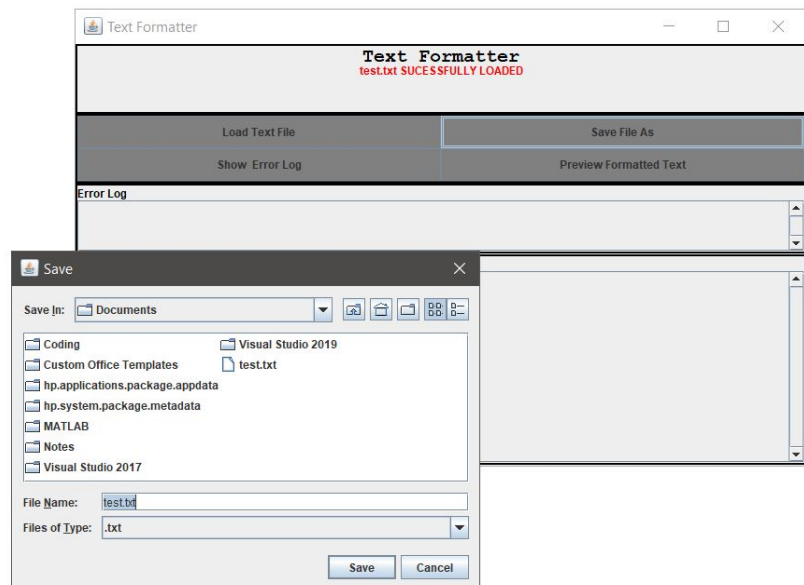
Showing Errors

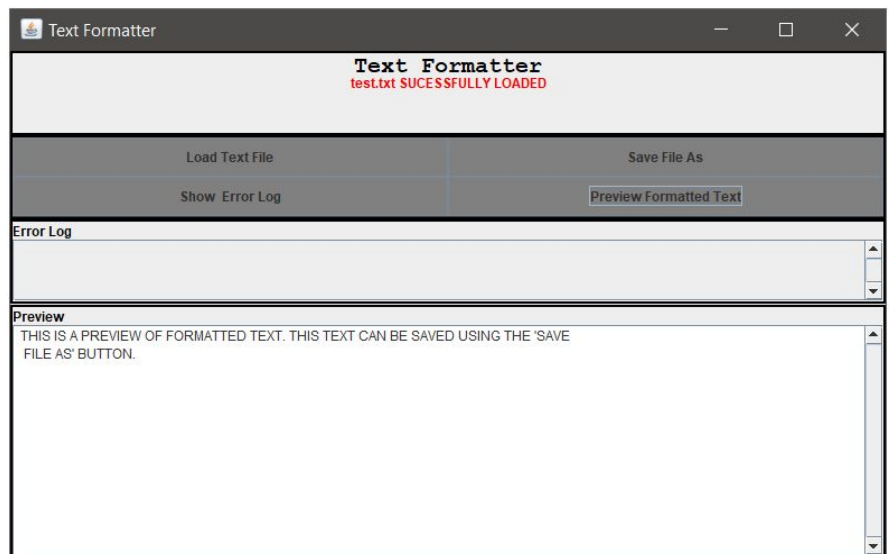**1)** If issues have occurred during the loading, saving, or formatting process, an error log can be shown by selecting the "Show Error Log" button.

Previewing Text

1) If the file was loaded correctly, selecting the "Preview Formatted Text" button displays a preview of the original text file in a formatted design. The formatted text can be saved with the "Save File As" button

FLAGS

The format of the text changes based on the previously recorded flag. A flag needs to be placed right above a desired body of text to be properly formatted. Twelve types of flags exist:

Default

Without a flag, every line of text will be formatted such that each text line contains a maximum of 80 characters. A lines of text will also be left justified. The format of the text can be altered using the following flags.
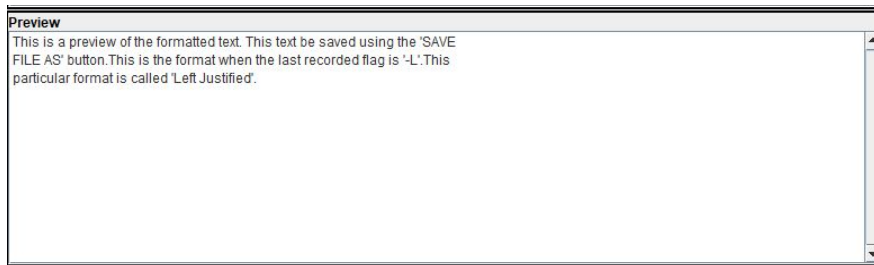
1) Left Justified (-L)

If a text line only containing "-L" is read, all subsequent lines of text will be left-justified until another Justification-type flag is read.

Input:

```
-L
This is a preview of the formatted text. This text be saved using the 'SAVE FILE AS' button.
This is the format when the last recorded flag is '-L'.This particular format is called 'Left
Justified'.
```

Output

```
Preview
This is a preview of the formatted text. This text be saved using the 'SAVE
FILE AS' button.This is the format when the last recorded flag is '-L'.This
particular format is called 'Left Justified'.
```
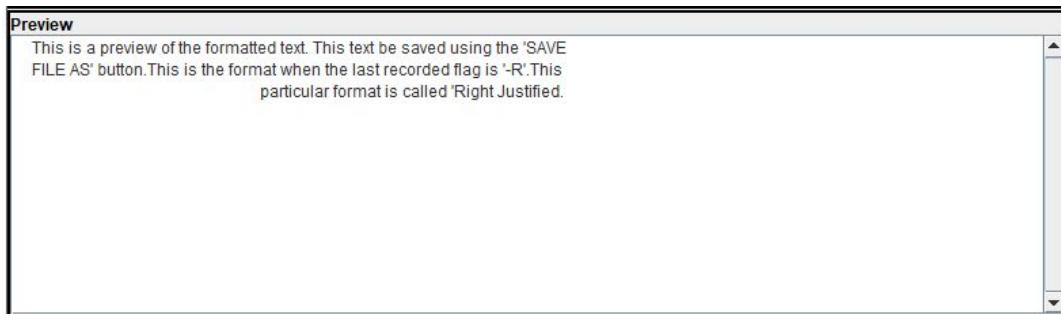
2) Right Justified (-R)

If a text line only containing "-R" is read, all subsequent lines of text will be right-justified until another Justification-type flag is read.

Input:

```
-R
This is a preview of the formatted text. This text be saved using the 'SAVE FILE AS' button.
This is the format when the last recorded flag is '-R'.This particular format is called 'RIGHT
Justified'.
```

Output:

```
Preview
                This is a preview of the formatted text. This text be saved using the 'SAVE
                    FILE AS' button.This is the format when the last recorded flag is '-R'.This
                              particular format is called 'Right Justified.
```

3) <u>Title</u>

If a text line only containing "-T" is read, the next most line of text will become center justified. <u>Note:</u> The title Flag only affects the text line succeeding in the flag call.

<u>Input:</u>

```
-L
This is a preview of the formatted text. This text be saved using the 'SAVE FILE AS' button.
This is the format when the last recorded flag is '-T'.This particular format is called 'Title
-T
Justified'.
```
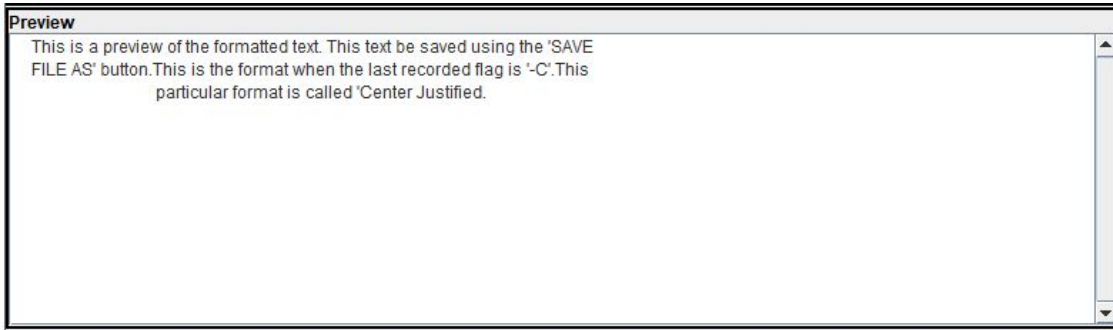
<u>Output:</u>

```
Preview
This is a preview of the formatted text. This text be saved using the 'SAVE
FILE AS' button.This is the format when the last recorded flag is '-T'.This
                    particular format is called 'Title Justified.
```
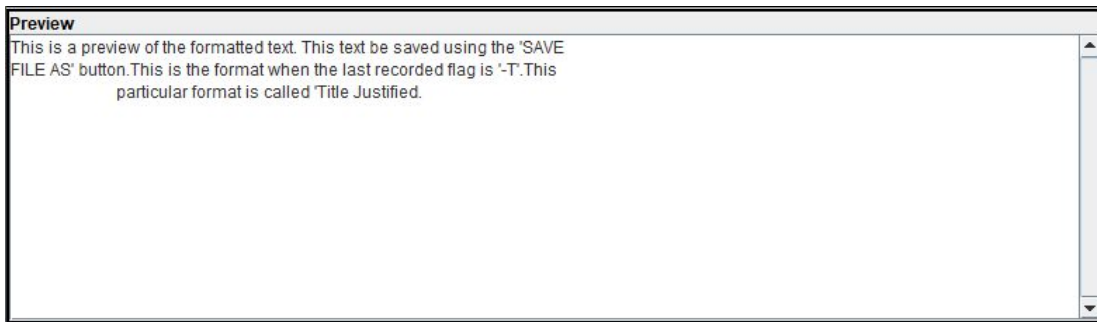
4) <u>Center</u>

If a text line only containing "-C" is read, all subsequent lines of text will become center justified until another Justification-type flag is read.

<u>Input:</u>

```
-C
This is a preview of the formatted text. This text be saved using the 'SAVE FILE AS' button.
This is the format when the last recorded flag is '-C'.This particular format is called 'Center
Justified'.
```

Output:

```
Preview
  This is a preview of the formatted text. This text be saved using the 'SAVE
  FILE AS' button.This is the format when the last recorded flag is '-C'.This
                    particular format is called 'Center Justified.
```
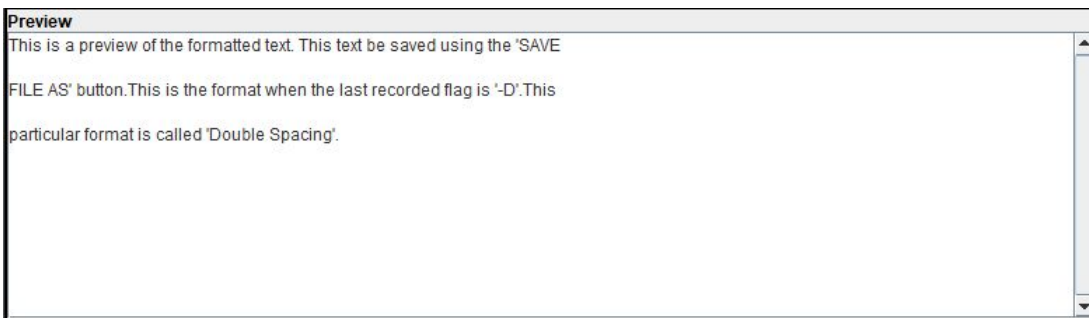
5) **Double Space**

If a text line only containing "-D" is read, all subsequent lines of text will be formatted in double spacing until another spacing-type flag is recognized.

Input:

```
-D
This is a preview of the formatted text. This text be saved using the SAVE FILE AS' button.
This is the format when the last recorded flag is '-D'.This particular format is called 'Double
Spacing'.
```

Output:

```
Preview
This is a preview of the formatted text. This text be saved using the 'SAVE

FILE AS' button.This is the format when the last recorded flag is '-D'.This

particular format is called 'Double Spacing'.
```

6) Single Space

If a text line only containing "-S" is read, all subsequent lines of text will be formatted in single spacing until another spacing-type flag is recognized.

Input:

```
-D
This is a preview of the formatted text. This text be saved using the SAVE FILE AS' button.
-S
This is the format when the last recorded flag is '-S'.This particular format is called 'Single
Spacing'.
```

Output:

```
Preview
This is a preview of the formatted text. This text be saved using the 'SAVE

FILE AS' button.This is the format when the last recorded flag is '-S'.This
particular format is called 'Single Spacing'.
```

7) Indent

If a text line only containing "-I" is read AND the current text line is left-justified, The next most line will contain an indentation (5 Spaces). Note: The Indent flag is only valid when the current justification-type flag is left justified (-L).

Input:

```
-L
-I
This is a preview of the formatted text. This text be saved using the SAVE FILE AS' button.
This is the format when the last recorded flag is '-I'.This particular format is called 'Indent
Lines'.
```
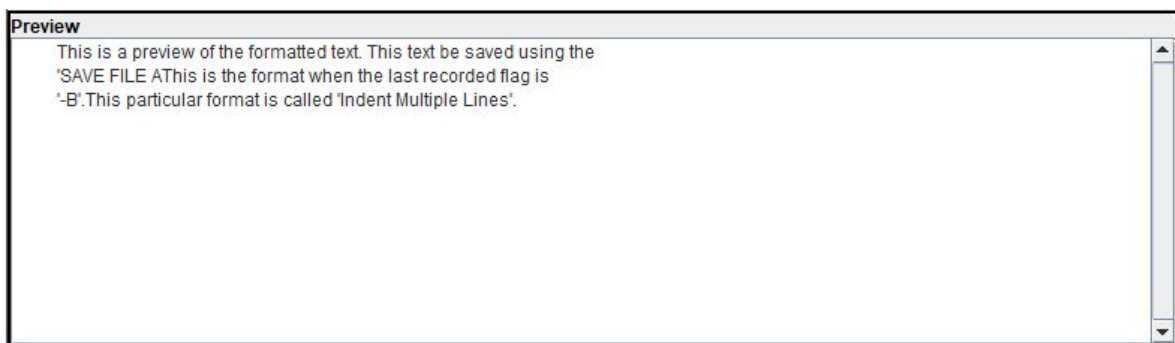
Output:

```
Preview
    This is a preview of the formatted text. This text be saved using the
'SAVE FILE AS' buThis is the format when the last recorded flag is '-I'.This
particular format is called 'Indent Line'.
```

8) Indent Multiple Lines

If a text line only containing "-B" is read AND the current text line is left-justified,
The next most line will contain an indentation. Note: The Indent flag is only valid
when the current justification-type flag is left justified (-L).

Input:

```
-B
This is a preview of the formatted text. This text be saved using the SAVE FILE AS' button.
This is the format when the last recorded flag is '-B'.This particular format is called 'Indent
Multiple Lines'.
```

Output:

```
Preview
    This is a preview of the formatted text. This text be saved using the
    'SAVE FILE AThis is the format when the last recorded flag is
    '-B'.This particular format is called 'Indent Multiple Lines'.
```

9) Remove Indentation

If a text line only containing "-N" is read AND an indentation-type flag is currently Active, all subsequent text lines will contain no indentation. Note: The Remove The indentation flag is only valid when an indentation-type flag (-I or -B) is active.

Input:

```
-B
This is a preview of the formatted text. This text be saved using the SAVE FILE AS' button.
This is the format when the last recorded flag is '-N'.This particular format is called 'Remove
-N
Indentation'.
```

Output:

```
Preview
        This is a preview of the formatted text. This text be saved using the
        'SAVE FILE AThis is the format when the last recorded flag is
'-N'.This particular format is called 'Remove Indion'.
```
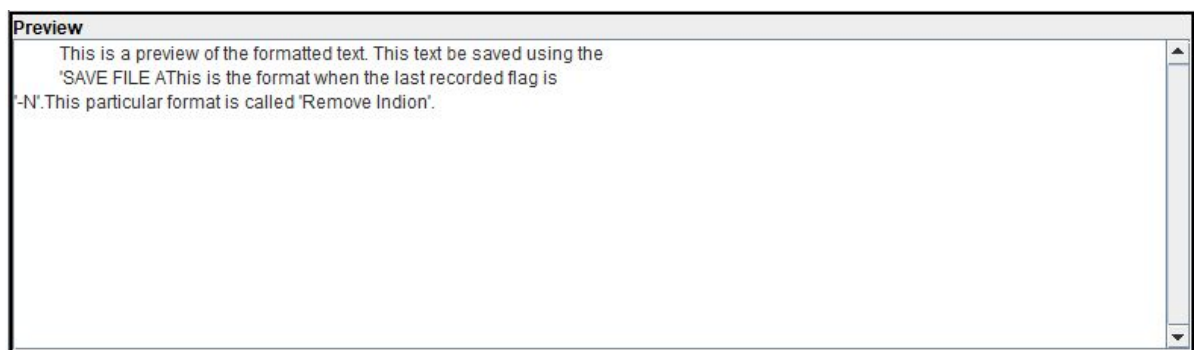
10) Empty Line

If a text line only containing "-E" is read, the next most line of text will be separated by an empty line of text.

Input:

```
This is a preview of the formatted text. This text be saved using the SAVE FILE AS' button.
This is the format when the last recorded flag is '-E'.This particular format is called 'Empty
-E
Line'.
```

Output:

```
Preview
This is a preview of the formatted text. This text be saved using the 'SAVE
FILE AS' button.This is the format when the last recorded flag is '-E'.This

particular format is called 'Empty Line'.
```
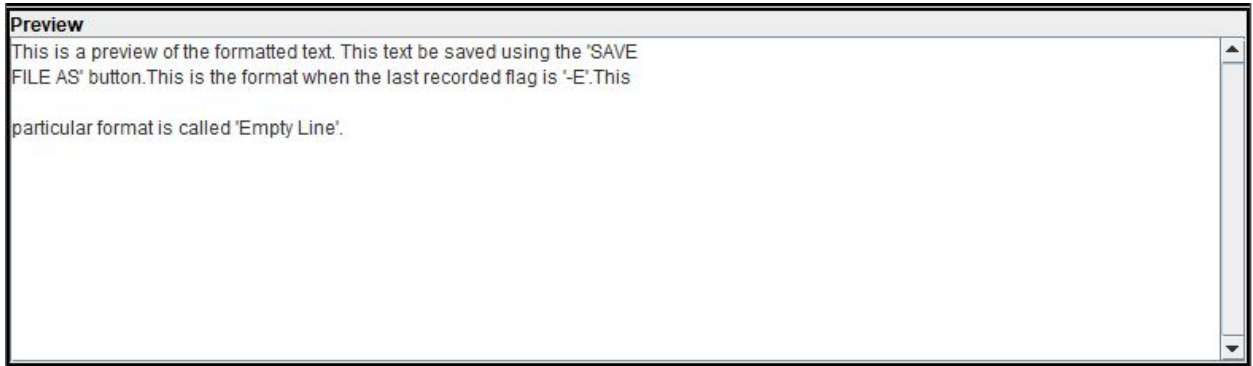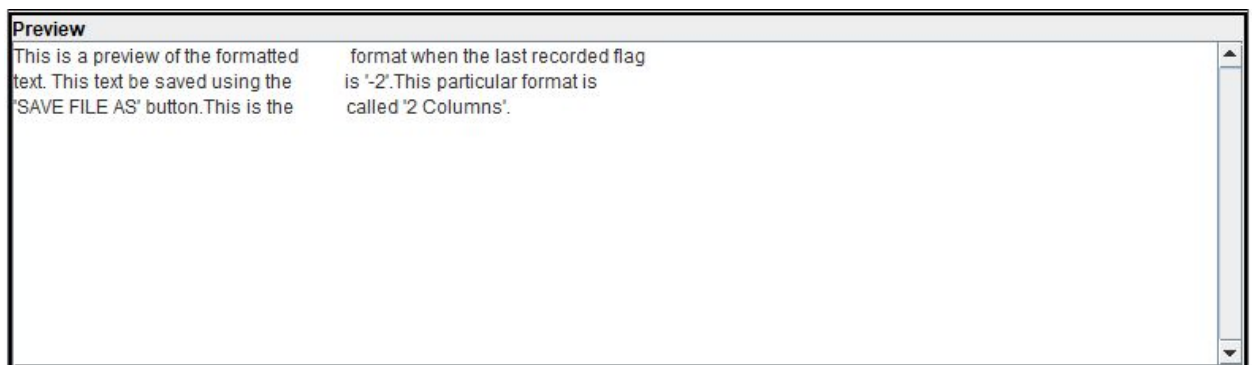
11) 2 Columns

If a text line only containing "-2" is read, every subsequent line of text will be split into 2 columns. Each column line contains a maximum of 35 characters each. Columns are separated by 10 blank spaces. While the second column flag is active, all indentation-type flags are disabled. However, all justification-type flags can be used.

Input:

```
-2
This is a preview of the formatted text. This text be saved using the SAVE FILE AS' button.
This is the format when the last recorded flag is '-2'.This particular format is called '2
Columns'.
```

Output:

```
Preview
This is a preview of the formatted          format when the last recorded flag
text. This text be saved using the          is '-2'.This particular format is
'SAVE FILE AS' button.This is the           called '2 Columns'.
```

12) 1 Column

If a text line only containing "-1" is read AND the 2 Columns flag (-2) is used, Every subsequent line of text will be contained in 1 80 character block. This Flag exists as the method to revert subsequent text lines into the default format.

Input:

```
-2
This is a preview of the formatted text. This text be saved using the SAVE FILE AS' button.
This is the format when the last recorded flag is '-1'.This particular format is called '1
-1
Column'.
```

Output:

```
Preview
This is a preview of the formatted        format when the last recorded flag
text. This text be saved using the        is '-1'.This particular format is
'SAVE FILE AS' button.This is the

called '1 Column'.
```
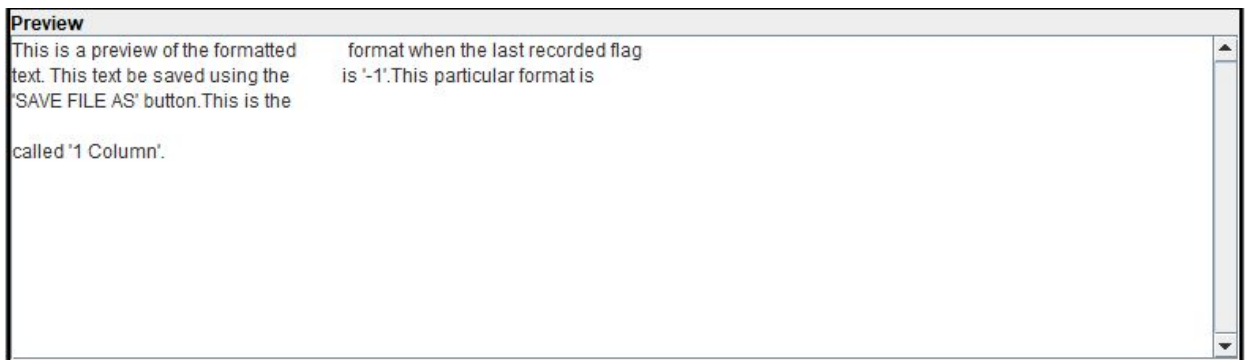
Error Conditions

1) File Extension Error

If users upload a non-text file, an error message will be displayed in a pop-up window.

File Selected: A_PDF_File.pdf

Error Message:
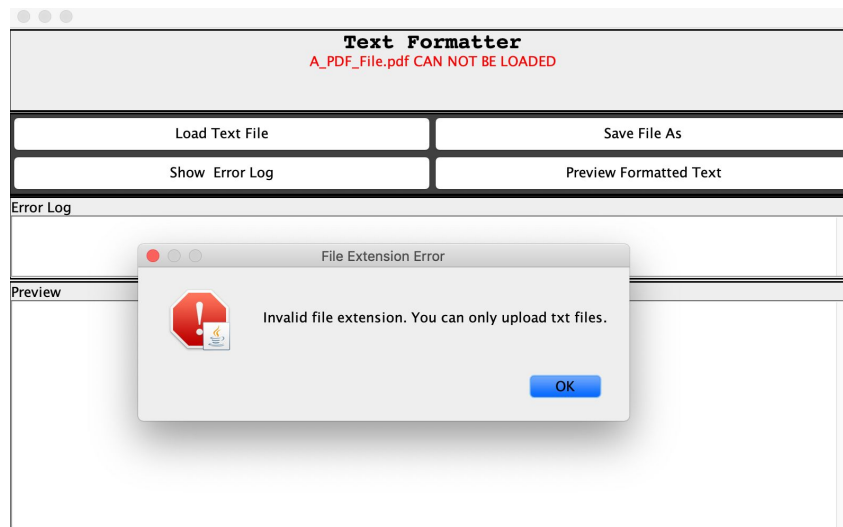
Error Log Update:
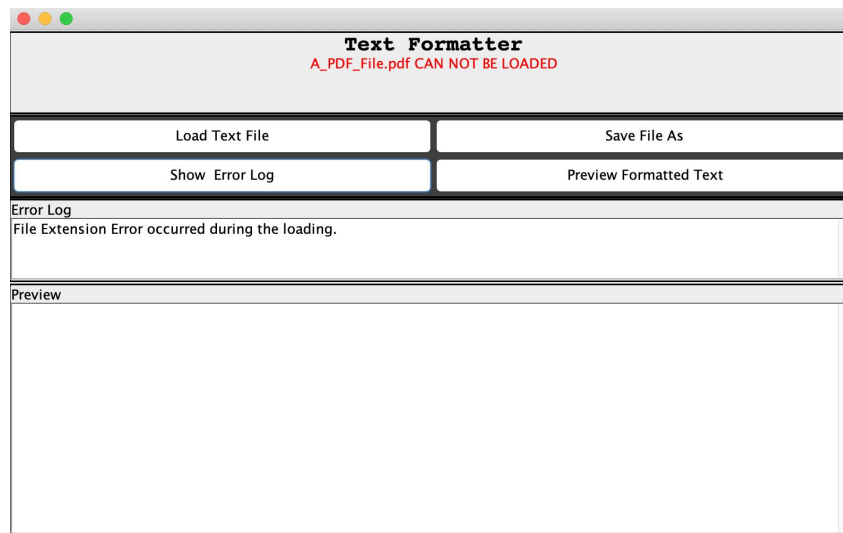
2) File Name Error

If the file name starts with a space, or period, users will not be able to save the file and an error message will be displayed in a pop-up window.
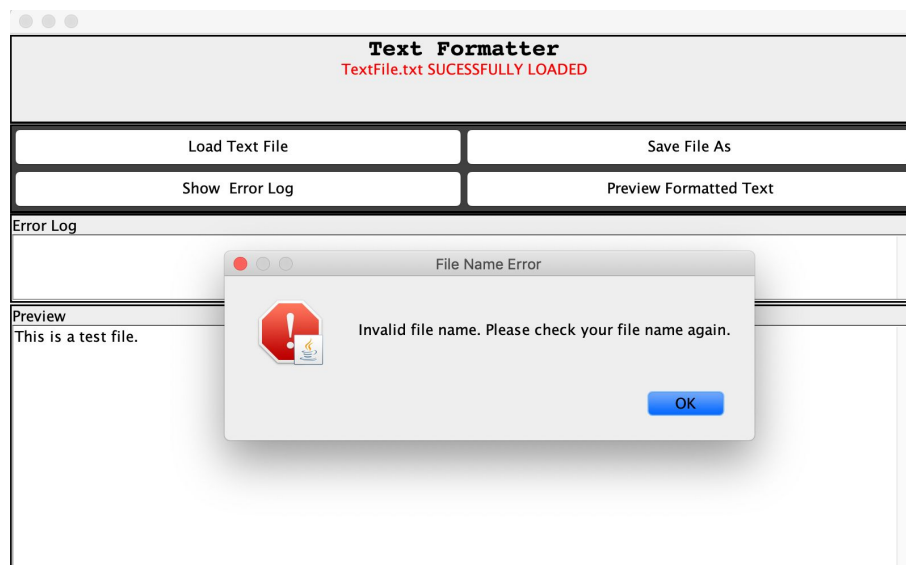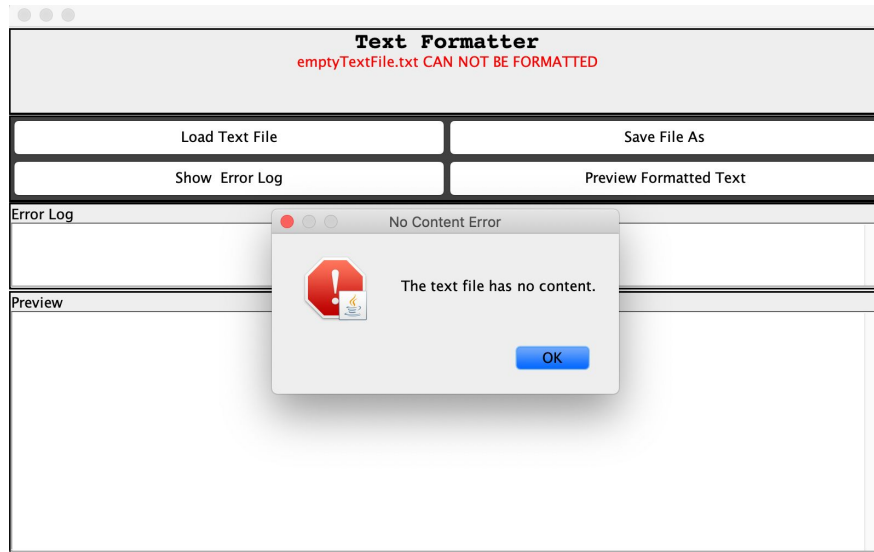
Error Message:
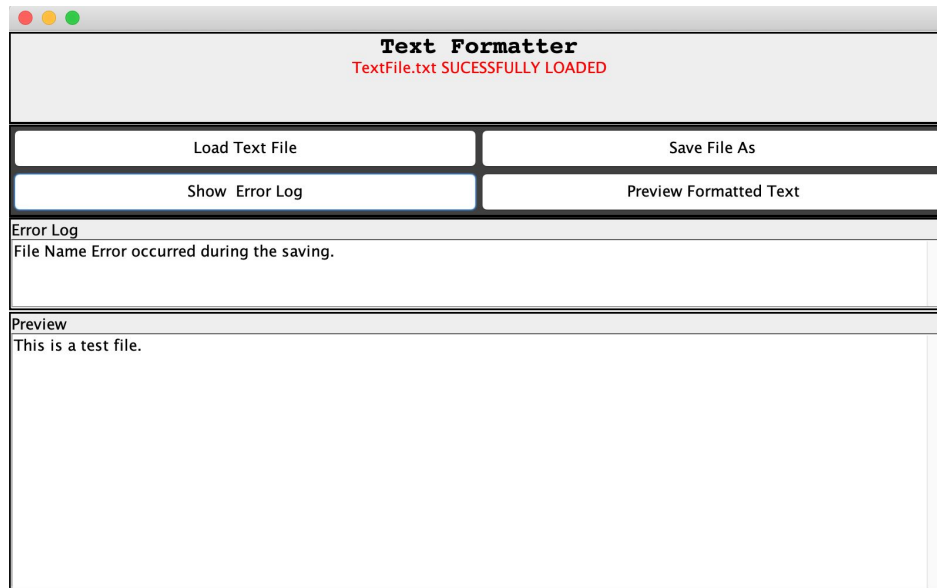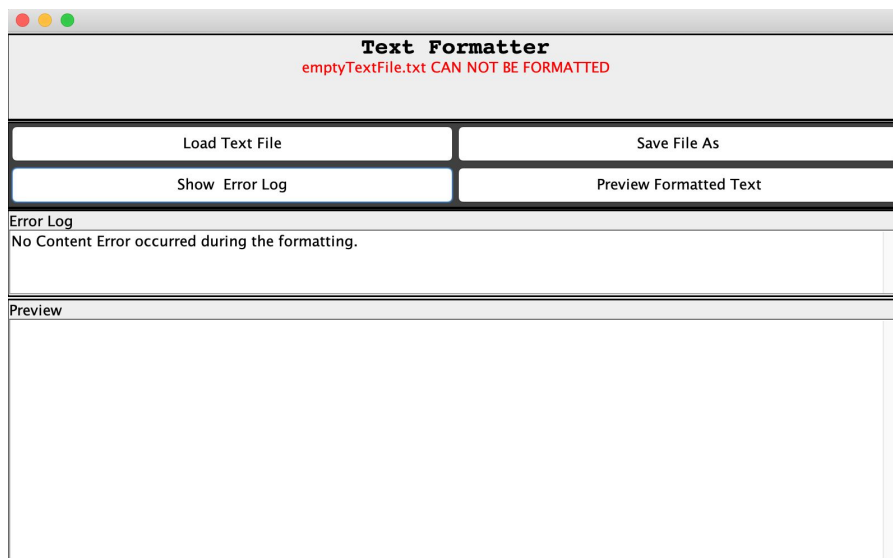
Error Log Update:

3) No Content Error

If the selected text file is empty, an error message will be displayed in a pop-up window.

File Selected: an empty text file named "emptyTextFile.txt"
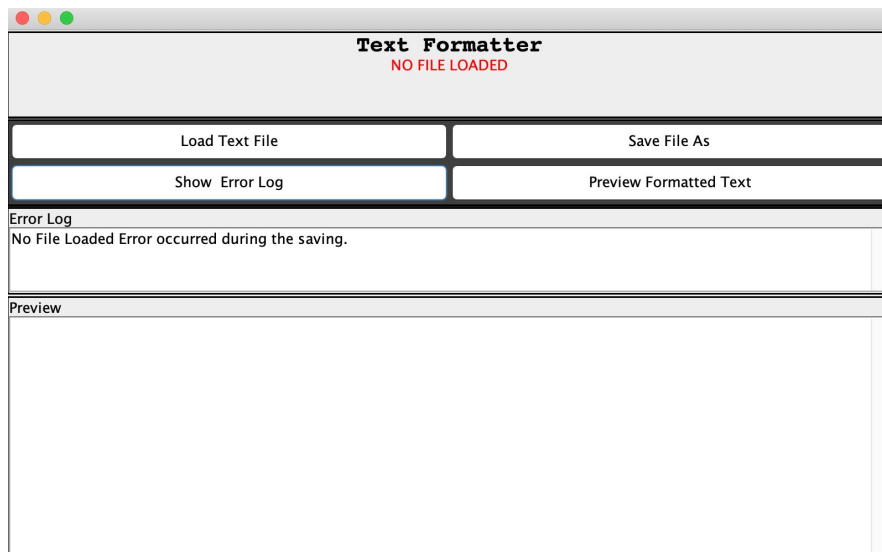
Error Message:

Error Log Update:

4) No File Loaded Error

If users click the "Save File As" button before load and format a text file, an error message will be displayed in a pop-up window.

Error Message:
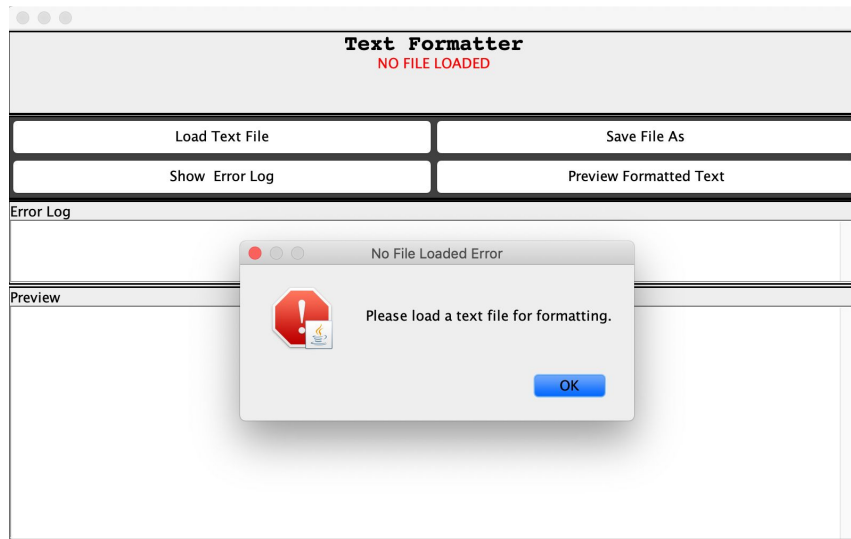
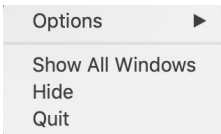

Error Log Update:

Ending the Program

There are two ways to quit the application window:
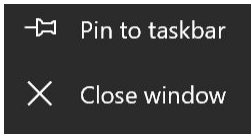
1. Click the Quit button in its menu

    - For Mac OS, click the red dot on the top-left corner of the application window to end the program, then the application will be closed successfully and safely.

    - For Windows, click the Quit button on the top-right corner of the application window to end the program, then the application will be closed successfully and safely.

2. Right-click the application icon, then select the Quit option

    - For Mac OS, right-click the application icon in the Dock, then select the "Quit"

option to end the program, then the application will be closed successfully and safely.

    - For Windows, right-click the application icon in the taskbar, then select the

"Close window" option to end the program, then the application will be closed successfully and safely.