[Text-Editor] Software Requirements Specification (SRS)

Team Members:

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Revision History

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| --- | --- | --- | --- |
| **Date** | **Revision** | **Description** | **Author** |
| 10/08/17 | 0.01 | Initial Version, GitHub repo created | Rafael Zamora |
| 10/10/17 | 0.05 | Initial Commit, basic UI framework | Josh Miklos & Jacob Buchholdt |
| 10/13/17 | 0.15 | Use Case Diagrams, software framework | Team |
| 10/16/17 | 0.28 | Test plan, test cases | Josh Miklos |
| 10/20/17 | 0.35 | Deliverable 1: Basic UI Implementation, file opening | Team |
| 10/30/17 | 0.50 | Deliverable 2: Scrapped file tree, implemented file browse and basic file analysis | Rafael Zamora & Nicholas Jorgensen |
| 11/13/17 | 0.75 | Editing, bug fixing | Jacob Buchholdt |
| 11/19/17 | 0.80 | Editing and updating documentation | Nicholas Jorgensen |
| 11/29/17 | 0.90 | Transferred project and SRS documentation from old repository to current repository | Josh Miklos |
| 11/29/17 | 0.91 | Included Revision History to SRS document  Editing: fixed formatting and misspellings | Jacob Buchholdt |
| 12/1/17 | 1.0 | Deliverable 3: Final Product. Included average analysis feature, bug fixing. | Team, Rafael Zamora (averaging) |

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   1. Overview

The software we are creating is a simple text editor that also shows important statistics like number of words or spaces, and average word length. It can do this on one or multiple files. Just like a standard text editor, it can also open, edit, and save files. As a Java application, it can also run on multiple systems.

We’ve all been working on it continually over the semester, and a few features have been added, like the open files being on the left, but we tried to keep the interface as simple and user-friendly as possible.

1. Use Cases
   1. Use Case Diagram

Analyze

Edit

Browse

New

Help

Average

Text-Editor

Use Case Scenarios

* As a user, I want to open a file in the text editor, because I want see the changes that have been made.
* As a user, I want to create a new file in the text editor, because I want to write to a txt file.
* As a user, I want to browse all my files, because I want to have choices as to which file I want to open.
* As a user, I want to edit a file, because I want to make changes to a txt file
* As a user, I want to analyze a txt file, because I want to see statistics on a txr file
* As a user, I want to analyze multiple files, because I want to see statistics on multiple files
* As a user, I want to read a help text, because I want to know how to use the program correctly.

1. Test Plan
   1. Test Cases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Feature** | **Description** | **Possible Input** | **Expected Output** |
| **1** | Open File | Click on the Browse button and choose a file from directory. | Text File | Open file. Show text.  Error message: not a text file -> popup |
| **2** | New File | Click on the New button and provide a name for the text file. | Name of Text File | New file created.  Error message: Only legal filenames are accepted |
| **3** | Analyze File | Click on the Analyze button and choose a file from the directory. | Text File | Show file text statistics  Error: not a text file -> popup |
| **4** | Average Files | Click on the Analyze button and choose files from the directory. | Text Files | Show files’ text statistics  Error: not text files -> popup |
| **5** | Help | Click on Help button. | None | Show help dialogue |
| **6** | Edit | Modify text in open file. | Text Change | Save file with new text.  Error: couldn’t save -> notify user |

1. Project Plan
   1. Plan for the First Deliverable

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| --- | --- | --- | --- |
|  | **Task** | **Description** | **Assignment** |
| **1** | Use Case Diagram | Use Case Diagram was drawn in Microsoft Word to visualize the possible actions a user can take. | Group |
| **2** | GUI Panel | Development of GUI Panel using Java Swing API in Eclipse. The panel will include the buttons and text editors to run the project | Jacob, Josh |
| **3** | Help | Created a text document in order to describe how the program works when pressing the help button. | Josh, Jacob |
| 4 | Text Stats | Create code to analyze a file and send statistics to the GUI. | Nicholas |
| 5 | File Management | User will be able to open, edit, and create a file. There will need to be a menu where the user can select these options. Once selected the file will be opened in the text editor. | Rafael |

* 2. Plan for the Second Deliverable

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| --- | --- | --- | --- |
|  | **Task** | **Description** | **Assignment** |
| **1** | File tree | Create a system of file trees in order to organize files that need to be selected | Josh |
| **2** | GUI Panel | Continue to add elements and link code for functionality. | Jacob, Josh |
| **3** | Help | Keep working and finish this up. | Josh, Jacob |
| 4 | Text Stats | Continue working and make progress on code for analyzing files. | Nicholas |
| 5 | File Management | User will be able to open, edit, and create a file. There will need to be a menu where the user can select these options. Once selected the file will be opened in the text editor. Multiple files can analyzed. | Rafael |
| 6 | UML Class diagram | Use current structure of classes to create the UML class diagram. | Rafael, Jacob |



Plan for the Third Deliverable

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| --- | --- | --- | --- |
|  | **Task** | **Description** | **Assignment** |
| **1** | Link code | Push code and reorganize the project to receive the finished new features. | Group |
| **2** | GUI Panel | Fix bug with files cutting off characters and implement file date and last edited time. | Josh |
| **3** | UML Class Diagram | Make new class diagram for version 2.0 of Text File Analyzer. | Jacob |
| 4 | Text Stats | Finish code and consider edge cases for calculating file statistics. | Nicholas |
| 5 | File Management | Finish code so that multiple files can analyzed. | Rafael |