**Plan**

1. Person edits a text file.
2. Read text file into the program.
3. Programme counts the amount of each individual letter in the alphabet.
4. Creates a Bar Chart.
5. Each time a letter occurs a square is added to the bar chart.
6. NEED EXCEPTIONAL USE OF OBJECT ORIENTATED DESIGN
7. MORE IMAGINATIVE ANALYSIS
8. PROFESSIONAL LEVEL OF DESIGN AND TESTING DOCUMENTATION
9. RICH USER INTERFACE

|  |
| --- |
| Characters class |
| Letters: char |
| -Cut string into characters  -Count each letters frequency not including white spaces  Calculate all frequencies  -Display frequencies in a table |

|  |
| --- |
| Menu Page |
| Scanner |
|  |

|  |
| --- |
| Bar Chart class |
| Squares: int |
| -Present in a bar chart |

|  |
| --- |
| Reader class |
|  |
| -Read in the string |

Menu page (Text driven menu)

* Demo mode
* File input
* Keyboard input

Text Analysis

* Character count (Special character and space count) = DONE
* Relative Frequencies = frequency / total characters
* Word Frequencies
* Comparison to character counts from English / French / Spanish
* Parts of speech

Documentation

* Class Diagrams
* Pseudocode for methods
* Testing of each individual method
* Testing of whole system as a whole

UI

* Bar Chart
* Scatter Graph
* Menu Structure
* Check for input errors

Input class

Keyboard input

Demo

File input