Arizona State University

# Text File Analyzer Program
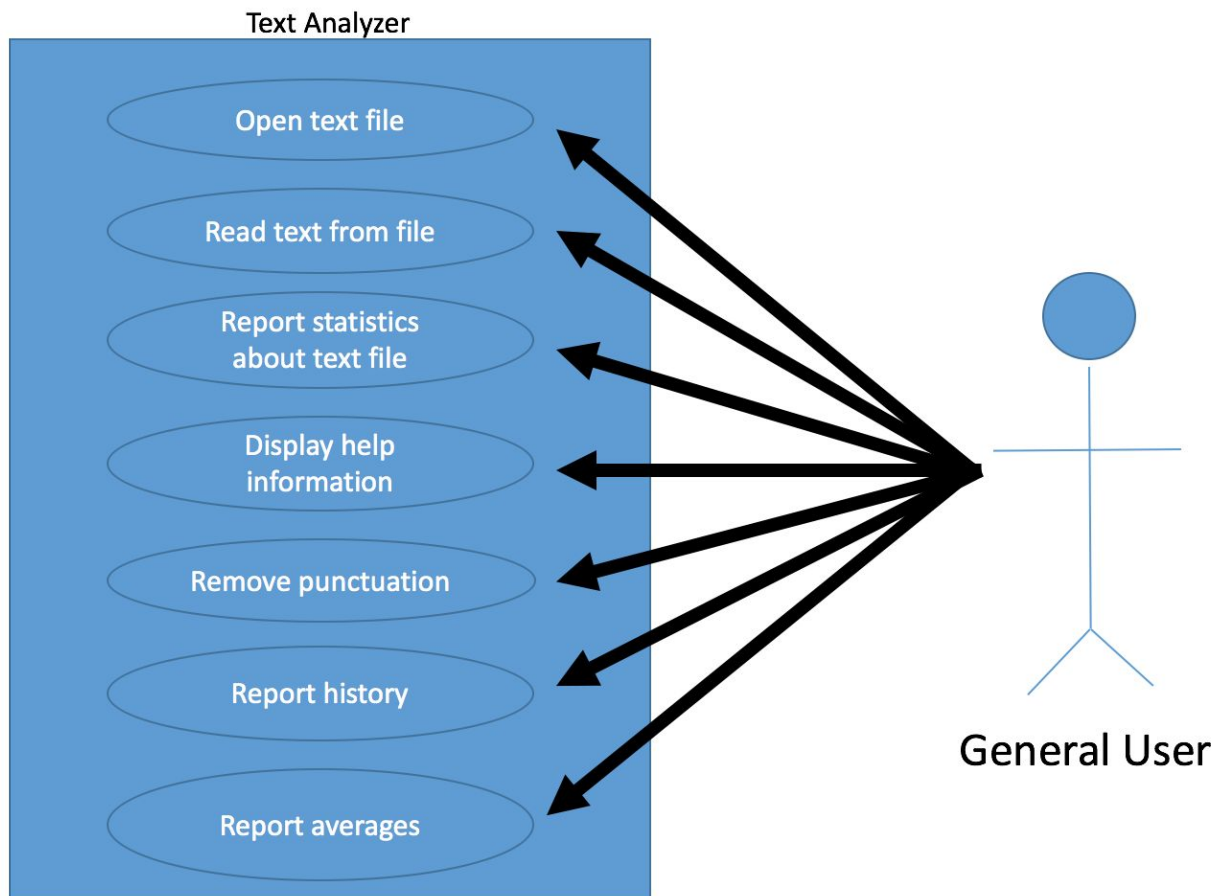
Group Project

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CSE 360: Intro to Software Engineering

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## Use Case Diagram of Text Analyzer

### Text Analyzer

- Open text file
- Read text from file
- Report statistics about text file
- Display help information
- Remove punctuation
- Report history
- Report averages

General User

## How to Test:

| Test Case | Description | How to test |
|---|---|---|
| Number of lines | Returns the number of lines the text file has | Make a test file with a certain number of lines, and use it in the program. The JUnit tests will look for the exact number of expected lines from a test text file. |

| | | |
|---|---|---|
| Number of blank lines | Returns the number of blank lines the text file has | Make a test file with a certain number of blank lines, and use it in the program. The JUnit tests will look for the exact number of expected blank lines from a test text file. |
| Number of spaces | Returns the number of spaces the text file has | Make a test file with a certain number of spaces, and use it in the program. The JUnit tests will look for the exact number of expected spaces from a test text file. |
| Number of words | Returns the number of words the text file has | Make a test file with a certain number of words, and use it in the program. The JUnit tests will look for the exact number of expected words from a test text file. |
| Average chars per line | Returns the average number of characters per line | Make a test file with multiple lines that can have characters, and put it in the program. The JUnit tests will look for the exact number of the average characters per line from a test text file. |

| Average word length | Returns the average number of the length of the words | Make a test file that can have multiple words, and use it in the program. The JUnit tests will look for the exact number of the length of the words from a test text file. |
| --- | --- | --- |
| Most common words | Returns a list of words in order from most common to least common with the number of times used | Make a test file with a certain number of words, and use it in the program. The JUnit tests will look for the most common words in order from a test text file. |
| Average of all above statistics for all processed files | Returns a list of all the above statistics' averages such as average | Make a test file with a certain number of lines, and use it in the program. The JUnit tests will look for the exact number of the average of all above statistics for all processed files from a test text file. |

General test plan: Make a test case (text file) that we will manually perform the operations on (Ex: count the number of lines).  We will then put our test file in our program and see if we get the same answers.

**Goals for Deliverable 1:**
1. Create GUI with minimal functionality - The deliverable must at least be able to load a text file. Button and GUI elements, layouts, and basic navigation of the application will be will be showcased.
2. Create feature to count number of lines - The feature does not have to be implemented into the GUI, but at least a prototype of the feature could be used in a console application and ready to test with JUnit.