

# Word Occurrences











Product Name: Word Occurrences Application

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## Product Overview

This application reads a user's desired text from an htm or html URL, and returns the frequency of the top 20 mots frequently used words in the text.

## Product Objectives

This program can help users to analyze the information contained in a text file. This could be particularly useful if you are trying to identify trends or other patterns in a text. This documentation serves to help users understand how the data contained in a text file is read, interpreted, and analyzed by the program.

## Main() Class

The Main class contains the start() method that constructs the GUI (Graphical User Interface) to facilitate user communication with the program. The GUI has textFields that accept user arguments for URL where the text can be found as well as the first and last line for the user's desired text and stores them in an ArrayList<String>.

There is also the handle() method which handles the button click event. This passes the user arguments ArrayList<String> to the TextAnalyzer class. It then connects to the database and retrieves the top twenty most frequent words stored in a database, ordered in descending frequency and outputs them in the results panel of the GUI.

## TextAnalyzer() Class

The TextAnalyzer class contains the textAnalyzer() method that accepts the user arguments for their desired text, reads the html from the internet, parses out all html tags, and othe undesireable characters. It then splits the text into individual words and stores them into an ArrayList<String>.

The `textDatabase()` method passes the Strings from the `textAnalyzer()` class and stores them in a database using JDBC commands.

### jUnit Testing ✓

The `TextAnalyzerTest()` class tests the `textAnalyzer()` method to ensure that there is no lost information or data corruption when passing reading and parsing html.

### Runnable JAR File ✓

Word Counter.jar is a Runnable JAR file that allows users to run the program from the desktop.

### Frequently Asked Questions (FAQs) 🙋

Can the program read any URL text?

So far, yes. The program is designed to remove any and all html tags so that any text can be analyzed. Even text with less than 20 words!

Help! The JAR file wont run?

Unfortunately the JAR file does not run on all system configurations. However the program can still be run from the JDE.

### Additional Resources 📄

<https://github.com/alysonmccomas/Text-Analyzer>

### Technical Support Contact Information 💬

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