

Acceptance Test Document

Text Analysis and Visualisation Tools

Team G

Preface

This document is to be used for testing purposes of the system in consultation with the client.

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Test Summary

Objectives

The purpose of this document is to outline a set of tests that will be used on the textual analysis system to identify any defects or failures, and that the system satisfies the requirements as defined in the Requirements Analysis Document (RAD). The tests will involve supplying various types of input into the system, and comparing the consequent outputs with the expected outputs.

Document References

The Requirements Analysis Document (RAD), in particular Section 3.2 Functional Requirements.

Test Summary

The tests will cover each functionality of the system as described in the RAD. This includes specifying inputs regarding what analytics the user wishes to see, and browsing the results.

Test Strategy

All tests conducted will be black box tests, where specified inputs will produce a set of outputs, which will be compared to the expected outputs. The tests will be performed on a webpage on a standard personal computer. As there is not access to the database or server that the system will be running on, the tests will most likely use a server set up on the university system, using local files as opposed to files on a database.

Tests

Test A - Word or letter frequency table

The user specifies a range in the play to view a word or letter frequency table, summarising the frequencies of words and letters in that range.

Input

The user will use a webpage to input manually. The input will consist of a number of common user interface components (drop down menus, checkboxes, etc). One option is to select a start and a end position in the play (e.g. "Act 1 Scene 1, Act 3 Scene 4"). Alternatively the user can select an option to analyse the whole play, or a specific character in the play. The user will have the option of viewing words, letters or both. Finally the user can click a "View" button.

Output

The user is notified of an input error if the input is invalid, or else is redirected to a webpage that displays a frequency table.

Procedures

Input	Expected Output
User enters valid input.	A webpage that displays a summary on the analysis (e.g. "Word Frequency Table between of Act 1"), followed by a frequency table.
Custom range has the end position before the start position.	User is notified of an invalid input, and remains on the same page.

Test B - Word or letter cloud

The user specifies a range in the play and a word or letter cloud is displayed.

Input

The input is similar to that of Test A.

Output

The user is notified of an input error if the input is invalid, or else is redirected to a webpage that displays a word or letter cloud.

Procedures

Input	Expected Output
User enters valid input.	A webpage that displays a word cloud, with high frequency words larger and low frequency words smaller.
Custom range has the end position before the start position.	User is notified of an invalid input, and remains on the same page.
Range is too small and contains too few words to display a meaningful cloud.	User is notified of the error and remains on the same page.
User wishes to view a special letter word cloud, but there are no special letters in the given range.	User is notified of the error and remains on the same page.

Test C - View word or letter in context

The user wishes to view a word in context, i.e. 5 words before and after a specified word or letter.

Input

The user clicks on a word or letter that they wish to see in context. The word can appear in the word cloud or in the frequency table.

Output

A webpage displaying a number of sentences that contain the word, one for each instance where the word occurs.

Procedures

Input	Expected Output
From a word or letter cloud, the user clicks on a word or letter	A webpage displaying the word or letter in context, using the same range as the word cloud.
From a frequency analysis webpage, the user clicks on a word or letter	A webpage displaying the word or letter in context, using the same range as the frequency analysis.

Test D - View a doubling chart

The user requests to see a doubling chart of the current play, which is a table that shows when characters are on or off stage.

Input

After selecting a play, the user will click on a "View Doubling Chart" button.

Output

A webpage containing the doubling chart.

Test E - View a prop chart

The user requests to see a prop chart of the current play, which is a table that shows when props are used in the play.

Input

After selecting a play, the user will click on a "View Prop Chart" button.

Output

A webpage containing the prop chart.

Test F - View an actor role analysis

The user requests to see an actor role analysis, which lists a number of possibilities of doublings and characters that are played by men or boys.

Input

After selecting a play, the user will click on a "View Actor Role Analysis" button.

Output

A webpage containing the actor role analysis.