Test Plan for Project 1: Text Analysis

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| **Description** | **Expected Outcome** | **Comment/Actual Result** | **Pass** |
| Requirements Checklist | | | |
| Must accept text files for input | - | Functionality Implemented | ✔ |
| May allow the user to choose the text file for processing | - | Functionality Implemented | ✔ |
| Must allow the user to choose to start processing or exit without processing any text files | - | Functionality Implemented | ✔ |
| Must be able to process a text file as input |  | Functionality Implemented | ✔ |
| Must be able to count words, occurrences, characters, blank spaces | - | Functionality Implemented | ✔ |
| Must be able to calculate the percentage of blank spaces as | - | Functionality Implemented | ✔ |
| Must implement exception handling in two areas | - | Functionality Implemented | ✔ |
| Must create an output text file for the chosen text formatted to the client’s requirements named **"<novel>\_analysis.txt** | - | Functionality Implemented | ✔ |
| Must advise the user when:  processing has completed and  the name/location of the output file | - | Functionality Implemented | ✔ |
| Must advise the user when:  an exception has occurred and the type of exception | - | Functionality Implemented | ✔ |
| Text analysis output must be clear and easy to read | - | Functionality Implemented | ✔ |
| Testing Checklist | | | |
| User clicks on the Run button without any text file selected | The run button is disabled and does not allow the user to be clicked | Same as Expected Result | ✔ |
| User clicks on the Browse button to select a file | A file dialog is prompted to the user  The state property of Run button is set to enable | Same as Expected Result | ✔ |
| User selects a file and clicks open on the file dialog | The file is selected  The file path of the file is inserted to the entry box | Same as Expected Result | ✔ |
| User decided to cancel the file dialog | The file is not selected  No file path is inserted to the entry box widget | Same as Expected Result | ✔ |
| User selected an incorrect file format | An error message is displayed to the user | Same as Expected Result | ✔ |
| User wants to enter manually a file path and clicks on the checkbox “Enter File Path Manually” | The state property of the entry widget is set to enable to allow the user input  The Browse button is disabled  The state property of the Run button is set to enable | Same as Expected Result | ✔ |
| User enters an invalid file path and clicks on Run button | An error message is displayed to the user stating that file does not exist | Same as Expected Result | ✔ |
| User enters a file path manually and clicks on the browse button | The browse button is disabled and does not allow the user to be clicked | Same as Expected Result |  |
| User does not enter a file path and clicks on Run button | An error message is displayed to the user stating that the entry widget is empty | Same as Expected Result | ✔ |
| User wants to Browse a file instead and untick the checkbox “Enter File Path Manually” | The state property of the Browse button is set to enable  The state property of both the Run button and entry widget is set to disable | Same as Expected Result | ✔ |
| User clicks on the Run button to start the processing of a text file | A message box is prompted to the user to confirm whether he wants to proceed | Same as Expected Result | ✔ |
| User clicks on Yes to confirm the processing of the text file | The file stated in the entry widget is processed  An entry is created in the list box widget to notify the user that there is a file being processed  The status bar is gradually updated until the file is processed  The result is populated in the text box widget  Another entry is created in the list box widget stating that the file has complete | Same as Expected Result | ✔ |
| User clicks on No to stop the execution | The file stated in the entry widget is not processed | Same as Expected Result | ✔ |
| User clicks on the Run button again | The file stated in the entry widget is processed  The text box widget and list box widget are updated with the previous and new analysis  The Runs are differentiated through their numbers | Same as Expected Result | ✔ |
| User clicks on the Reset All button | A message box is prompted to the user to confirm whether he wants to proceed | Same as Expected Result | ✔ |
| User clicks Yes to confirm the clearing of all frames | The list box’s and text box’s content are deleted  The state property of the entry widget and Run button is set to disable  The state property of the Browse button is set to enable | Same as Expected Result | ✔ |
| User clicks No to stop the execution | All 3 frames contents are not deleted or reset | Same as Expected Result | ✔ |
| User clicks on Exit from the File Menu | Application closes | Same as Expected Result | ✔ |
| User clicks on Text from Export Menu | A file dialog is prompted to the user with the default filename\_Analysis.txt  User selects the path to export the contents of text box widget aka analysis results  The export is processed and a message box informs the user that it is successful  2 entry lines are added to the list box widget indicating the file path of the export and that the export is successful | Same as Expected Result | ✔ |
| User clicks on Text from Export Menu after having ran the program more than once | A file dialog is prompted to the user without any default file name | Same as Expected Result | ✔ |
| User clicks on Text from Export Menu without any analysis or result processed | An error message is displayed that there is nothing to export | Same as Expected Result | ✔ |
| If any error occurs while processing a text file | An error message is displayed and all frames are cleared/reset | Same as Expected Result | ✔ |