Assignment 4 Test Plan

CST 8130

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| **Condition(Description)** | **Specific Example** | **Results** |
| Clear dictionary(Choosing menu 1) | Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit  1  **Inside Dictionary:**  (empty) | Dictionary Cleared. |
| Adding words or string (letters and/or numbers) from user input to dictionary(Choosing menu 2) – In any case sensitive values | Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit  2  Please enter text:  test test test johan johan JOHAN | No message, will display menu again.  Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit  Inside Dictionary(Word-# of times it occurred-key:  Test – 3  Johan - 3 |
| Adding words or string (letters and/or numbers) from user input to dictionary(Choosing menu 2) – In any case sensitive values – with special character | Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit  2  Please enter text:  TEST test TesT Test't JOHAN johan joha johan | No message, will display menu again  Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit  Inside dictionary:  Test – 6  Testt-1  Johan-6  Joha-1 |
| Reading and Adding file to dictionary (Choosing menu 3) | Enter name of file to process: Oliver.txt  **Inside file(Oliver.txt):**  OLIVER TWIST OR THE PARISH BOY'S PROGRESS BY CHARLES DICKENS  CHAPTER I  TREATS OF THE PLACE WHERE OLIVER TWIST WAS BORN AND OF THE CIRCUMSTANCES ATTENDING HIS BIRTH  Among other public buildings in a certain town, which for many reasons it will be prudent to… | No message, will display menu again  Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit |
| Searching for words added from user text(Choosing menu 4) | Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit  4  Please enter a word to search:  test | test occurs 6 times. |
| Displaying number of nodes inside tree(Choosing menu 5) | Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit  5 | There are 11611 nodes. |
| Entering 6 in menu(Quitting program) | Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit  6 | Quitting... |
| Searching for words added from file | Enter name of file to process: Oliver.txt  Please enter a word to search:  oliver | oliver occurs 747 times. |
| File not found | Enter name of file to process: oliver | Error opening file. Terminating... |
| Text inside has non-character or number values | **Inside file(sample text):**  …, sir?'…. | No error, will get rid of non-character values  Inside Dictionary:  Sir - 1 |
| Any miscellaneous errors reading from file | Enter name of file to process: Oliver.txt | Error reading from file. Terminating... |
| File improperly formed | Enter name of file to process: Oliver.txt | File improperly formed. Terminating... |
| Searching for non-character or number items | Please enter a word to search:  } | } not found. |
| Entering a menu selection other than 1 to 6 (Either letter or number) | Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit  7 | Invalid choice. Please choose an option.  Enter 1 to clear dictionary,  2 to add text from keyboard,  3 to add text from file,  4 to search for a word count,  5 to display number of nodes,  6 to quit |

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