Assessment 2 Test Report 1 - Sprint 1

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# Version 2 Testing - 20/09/2021

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| --- | --- | --- | --- | --- |
| Version | Test Case | Data Input | Expected Result | Actual Result/Comment |
| 2 | 1 | Add inputting double | Exception error | Exception error. |
| 2 | 2 | Add inputting string | Exception error | Exception error. |
| 2 | 3 | Add inputting integer | Message to confirm data added | Message does not appear.  Time stamp for entry to keep track? |
| 2 | 4 | Delete following correct process | Message to confirm data deleted | Message appears confirming data deleted. |
| 2 | 5 | Delete without selecting an item | Message to prompt user to select an item to delete | Message appears prompting user to select an item to delete. |
| 2 | 6 | Edit without inputting replacement text | Message to confirm data not edited | When new data to replace existing data is not input, the error message does not explain that it is because there is no replacement data input in the field. |
| 2 | 7 | Edit following correct process | Data to update | Data updates as expected.  Message to confirm data edited to be implemented. |
| 2 | 8 | Edit without selecting item to replace | Error | When data is input in the text box and nothing from the listbox is selected, an exception error occurs. |
| 2 | 9 | Sort data | Data to sort | Data sorts as expected.  Message to confirm data sorted to be implemented.  Numbers (time entered) against each item? |
| 2 | 10 | Search data without first sorting | Target not located in most cases | Does not always locate the value when the data is not sorted.  Does not display a message to advise this – only states that it cannot be found. Message to be implemented. |
| 2 | 11 | Search sorted data | Integer to be located | Works as expected when data is sorted.  Item to be highlighted in listbox once located.  Does not differentiate between data when same value entered more than once.  Correct search type for purpose? |
| 2 | 12 | Test where there is no data already loaded | Random data to be automatically input into listbox. | Works as expected.  Reset button to clear test data? |
| 2 | 13 | Test where there is already test data input | Random data to be automatically input into listbox. | Error. |
| 2 | 14 | Searching where no search term is input | Error | Error. |
| 2 | 15 | Adding another integer where there are already 24 items in the listbox | Error | Error. |

# Version 3 Testing 20/09/2021

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| Version | Test Case | Data Input | Expected Result | Actual Result/Comment |
| 3 | 1 | Add inputting double | Error message to user | Error message appears and prompts user to input integer. |
| 3 | 2 | Add inputting string | Error message to user | Error message appears and prompts user to input integer. |
| 3 | 3 | Add inputting integer | Message to confirm data added | Message appears confirming data added. |
| 3 | 4 | Delete following correct process | Message to confirm data deleted | Message appears confirming data deleted. |
| 3 | 5 | Delete without selecting an item | Message to prompt user to select an item to delete | Message appears prompting user to select an item to delete. |
| 3 | 6 | Edit without inputting replacement text | Message to confirm data not edited  and prompt user to ensure new data is input | Message appears confirming data not edited and prompts user to ensure data is input and item selected. |
| 3 | 7 | Edit following correct process | Message to confirm data edited | Message appears to confirm data edited. |
| 3 | 8 | Edit without selecting item to replace | Message to confirm data not edited  and prompt user to ensure new data is input | Message appears confirming data not edited and prompts user to ensure data is input and item selected. |
| 3 | 9 | Sort | Message to confirm data sorted | Message appears to confirm data sorted.  Numbers against each item? |
| 3 | 10 | Search without first sorting | Message to advise item not found and remind user to ensure data is sorted | Message appears to indicate item not found and to remind user to ensure data is sorted.  Does the client still want this search type? |
| 3 | 11 | Search after sorting | Integer to be located and message to user to confirm.  Target to be highlighted. | Target highlighted in listbox. |
| 3 | 12 | Test | Message to confirm random data loaded | Message appears to confirm random data loaded. |
| 3 | 13 | Test where there is already input | Message to confirm random data loaded and new data set to load | Message appears to confirm random data loaded. |
| 3 | 14 | Searching where no search term is input | Error | Error. |
| 3 | 15 | Adding another integer where there are already 24 items in the listbox | Message to appear alerting user that maximum number of items has been reached | Message appears to confirm maximum number of items has been reached. |

# Version 4 Testing 21/09/2021

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| --- | --- | --- | --- | --- |
| Version | Test Case | Data input | Expected Result | Actual Result/Comment |
| 4 | 1 | Add inputting double | Error message to user | Error message appears and prompts user to input integer. |
| 4 | 2 | Add inputting string | Error message to user | Error message appears and prompts user to input integer. |
| 4 | 3 | Add inputting integer | Message to confirm data added | Message appears confirming data added. |
| 4 | 4 | Delete following correct process | Message to confirm data deleted | Message appears confirming data deleted. |
| 4 | 5 | Delete without selecting an item | Message to prompt user to select an item to delete | Message appears prompting user to select an item to delete. |
| 4 | 6 | Edit without inputting replacement text | Message to confirm data not edited  and prompt user to ensure new data is input | Message appears confirming data not edited and prompts user to ensure data is input and item selected. |
| 4 | 7 | Edit following correct process | Message to confirm data edited | Message appears to confirm data edited. |
| 4 | 8 | Edit without selecting item to replace | Message to confirm data not edited  and prompt user to ensure new data is input | Message appears confirming data not edited and prompts user to ensure data is input and item selected. |
| 4 | 9 | Sort | Message to confirm data sorted | Message appears to confirm data sorted.  Numbers against each item? |
| 4 | 10 | Search without first sorting | Message to advise item not found and remind user to ensure data is sorted | Message appears to indicate item not found and to remind user to ensure data is sorted.  Does the client still want this search type? |
| 4 | 11 | Search after sorting | Integer to be located and message to user to confirm.  Target to be highlighted. | Target highlighted in listbox and message appears to confirm index location. |
| 4 | 12 | Test | Message to confirm random data loaded | Message appears to confirm random data loaded. |
| 4 | 13 | Test where there is already input | Message to confirm random data loaded and new data set to load | Message appears to confirm random data loaded. |
| 4 | 14 | Searching where no search term is input | Message to prompt user to input search term | Message appears to prompt user to input search term. |
| 4 | 15 | Adding another integer where there are already 24 items in the listbox | Message to appear alerting user that maximum number of items has been reached | Message appears to confirm maximum number of items has been reached. |

# Recommendations:

* Button to clear test data, if required.
* Button to unsort data, if required.
* Different search method that does not require sorting – linear search algorithm.
* Listbox to display a number against each item input for the user to keep track of input. Could also consider the use of an automatic timestamp to record the time input.