CST8130 – Data Structures

Assignment 1 – Test Plan

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# 1.Main menu

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| Description of Test | Input Values | Output / Result | Pass/Fail |
| 1. Test the main menu with valid entries | 1-4 | After selecting the option and done it returns to the main menu | pass |
| 1. Test Values out side of the menu | 9 | Please enter numbers between 1-5...Try Again | pass |
| 1. Test alphabetic character menu | a | \*\*\*\* Please enter an integer \*\*\*\* | pass |
| 1. Test empty character menu |  | you left it empty please write something | Pass |
| 1. Test sign character menu | ! | \*\*\*\* Please enter an integer \*\*\*\* | Pass |
| 1. Test Exit menu | 5 | Exiting... | Pass |

# 2.Add Item

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| --- | --- | --- | --- |
| Description of Test | Input Values | Output / Result | Pass/Fail |
| 1. Test the Food item menu out side letter | a | Invalid entry | pass |
| 1. Add fruit | f,p,v | It prompt me to FoodItem Class to add item | pass |
| 1. Test integer | 1 | Invalid entry | pass |
| 1. Test empty character menu |  | you left it empty please write something | Pass |
| 1. Test sign character menu | ! | Invalid entry | Pass |

# 3. Item entry test

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| --- | --- | --- | --- |
| Description of Test | Input Values | Output / Result | Pass/Fail |
| 1. Test enter item code not valid info | Ee | Please Enter Integer | pass |
| 1. Test enter item code valid info | 111 | It continue to next variable | pass |
| 1. Test enter name of the item empty |  | you left it empty please write something | pass |
| 1. Test enter name of the item | Test | It continue to next variable | Pass |
| 1. Test the quantity with letter | aa | Number entered is not integer please enter again | Pass |
| 1. Test the quantity with negative number | -10 | Number Must be Positive | Pass |
| 1. Test the quantity with valid number | 15 | It continues to next variable | Pass |
| 1. Test item cost with letter | Ee | Number entered is not float please enter again | Pass |
| 1. Test the cost with negative number | -10 | Number Must be Positive | Pass |
| 1. Test the cost with valid number | 10 | It continues to next variable | Pass |
| 1. Test item price with letter |  | Number entered is not float please enter again | Pass |
| 1. Test the cost with negative number | -15 | Number Must be Positive | Pass |
| 1. Test the cost with valid number | 15 | It continues to next variable | Pass |

# 4.buy Item

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| --- | --- | --- | --- |
| Description of Test | Input Values | Output / Result | Pass/Fail |
| 1. Test Item not found | 555 | Give message “Error...could not buy item” and go back to the menu | pass |
| 1. Test buy in negative quantity | -15 | Gets error “Number Must be Positive” and prompt the user to enter again | pass |
| 1. Test with valid quantity | 15 | Get back to the main menu | pass |

# 5.buy Item

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| --- | --- | --- | --- |
| Description of Test | Input Values | Output / Result | Pass/Fail |
| 1. Test Item not found | 555 | Give message “Error...could not sell item” and go back to the menu | pass |
| 1. Test buy in negative quantity | -15 | Gets error “Error...could not sell item” and prompt the user to enter again | pass |
| 1. Test with valid quantity with more than there is | 150 | Gets error “Quantity Error...could not sell item” and go back to the main menu | Pass |
| 1. Test with valid quantity | 25 | Get back to the main menu | Pass |

# 6.Search Item

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| --- | --- | --- | --- |
| Description of Test | Input Values | Output / Result | Pass/Fail |
| 1. Test enter item code not valid info | ee | Gets error”  \*\*\*\* Please enter an integer \*\*\*\* “  And return to main menu | pass |
| 1. Test enter empty item code |  | Gets error “you left it empty please write something” and prompt the user to enter again | pass |
| 1. Search for item not found | 150 | Gets error “Code not found in inventory...” and go back to the main menu | Pass |
| 1. Search for item found | 100 | Out put item details and  Get back to the main menu | Pass |

# 7. Read Inventory from File

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| --- | --- | --- | --- |
| Description of Test | Input Values | Output / Result | Pass/Fail |
| 1. Test enter file not found | ee | Gets error”  File Not Found, ignoring... “  And return to main menu | pass |
| 1. Read file that it has duplicate values in the inventory | MyInventory3.txt | Gets error “Item code already exists” and prompt and go back to main menu | pass |
| 1. Read file that it has no duplicate values in the inventory | MyInventory2.txt | Nothing appears to happen and reapply the main menu | Pass |

# 8. Save Inventory from File

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| --- | --- | --- | --- |
| Description of Test | Input Values | Output / Result | Pass/Fail |
| 1. Save a file with a valid name | 6,Zahi.txt | Get message “Enter the filename to save to:” after entering file name goes back to main menu | pass |
| 1. Save a file with empty string |  | Gets error “you left it empty please write something” and prompt the user to enter again | pass |