Assignment 4 Test Plan

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Menu Testing

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| Condition | Input | Result |
| Menu input of 1 | 1 | Propmpts user to enter info to add item(Add item testing is processed per testing below) |
| Menu input of 2 | 2 | Display all items in inventory |
| Menu input of 5 | 5 | Prompts user to enter name to write to file ( File writing is processed per testing below) |
| Menu input of 6 | 6 | Prompts user to enter name of file to read( Read file is processed per testing below) |
| Menu input of 7 | 7 | Program Ends |
| Below boundary: -1 | -1 | Invalid Entry… please enter choice from 1-7 |
| Character input: ‘A’ | A | Invalid Entry… please enter choice from 1-7 |
| Above boundary: 8 | 8 | Invalid Entry… please enter choice from 1-7 |

Add Item Testing – Option 1 from menu

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| Condition | Input | Result |
| Good(Adding PurchasedItem without collision) | (P,238,MeatBalls,100,6.99,Lorenzos) | Successfully created PurchasedItem in index 38 of ArrayList and index 0 of Linked List |
| Good (Adding PurchasedItem Collision add in Linked List) | (P,138,TomatoSauce,88,1.99,Classico) | Successfully created PurchasedItem TomatoSauce. Inserts item at index 38 of the ArrayList and index 1 of Linked List |
| Good(Adding PurchasedItem with collision again) | (P,338, Cheese,88,1.99,Classico) | Successfully created PurchasedItem Cheese. Inserts item at index 38 of ArrayList and index 2 of Linked list |
| Good(Add ManufacturedItem without collision | (M,168,Pizza,88,1.99,Gabriels,138,88,-1) | Successfully created ManufacturedItem Pizza and inserts at index 68 of Arraylist and index 0 of LinkedList |

Seaching for Item using Hash

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| Condition | Input | Result |
| (Good) Searching for itemCode that exist in the Inventory | 123 | ItemCode 123 is located at index 23 in the Inventory and at index 0 of the linked list  Displays the items …. |
| (Bad) Searching for itemCode that does not exist in the Inventory | 867 | itemCode 867 was not found in the Inventory |
| (Bad) Searching for itemCode invalid input character | A | Invalid entry: please enter a positive integer |
| (Bad) Searching for itemCode invalid input negative number | -1 | Invalid entry: please enter a positive integer |

Saving (Writing) To File – Option 5 from menu

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| Condition | Input | Result |
| File name does not already exist | Hello.txt | File is created with name Hello.txt which contains the contents of items in the ArrayList |
| File name already exist | Hello.txt | File name already exist. Would you like to overwrite the file( y for yes, anything else for no) |
| Overwrite file choice (y) | y | Overwrites the file Hello.txt with the contents of items in the ArrayList |
| Overwrite file  choice (n) | n | Prompt the user to enter a new filename. Only create the file once he gives a new filename. |
| Write to file with no items in Inventory | 5(from menu) | There are no items to write to file(back to menu) |

Reading To File – Option 6 from menu

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| Condition | Input | Result |
| (Bad)Read in a file that does not exist | Bad.txt | Could not find file…good.txt exiting |
| (Good)Read in good file(Hello.txt) | Hello.txt | File name already exist. Would you like to overwrite the file( y for yes, anything else for no) |
| Read in an empty file | Empty.txt | File is empty there is no items to load in. (back to menu) |
| Read file in that has garbage values for itemCode | Garbage.txt | Error reading in itemCode… garbage value unable to read file ( back to menu) |
| Read file in that has garbage values for quantity | Garbage1.txt | Error reading in quantity… garbage value unable to read file ( back to menu) |
| Read file in that has garbage values for price | Garbage2.txt | Error reading in price… garbage value unable to read file ( back to menu) |
| Read file in that has a ManufacturedItem with no usedItemcode | nails.txt | Not enough userItemCode to create nails ManufacturedItem… skipping over |
| Read file in that has duplicate items. | duplicate.txt | Item did not get added.. already exist in inventory. |