**Test Plan**

**Menu testing**

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| --- | --- | --- |
| Condition | Input | Result |
| Menu input 1 first | 1 (then p, 1, 1, 1, 1, 1) |  |
| Menu input 1 | 2 (then m, 2, 2, 2, 2, 2, -1) |  |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1  Item: 2 2 2 price: 2.0 Codes used: 2 |
| Menu input 3 | 3 (then 1, 30) |  |
| Menu input 2 | 2 | Item: 1 1 31 price: 1.0 1  Item: 2 2 2 price: 2.0 Codes used: 2 |
| Menu input 4 | 4 (then 2, 1) |  |
| Menu input 2 | 2 | Item: 1 1 31 price: 1.0 1  Item: 2 2 1 price: 2.0 Codes used: 2 |
| Menu input 5 | 5 (then d:\Assign2.txt) | Checking feasibility of file...  File load Success.. |
| Menu input 2 | 2 | Item: 1 1 31 price: 1.0 1  Item: 2 2 1 price: 2.0 Codes used: 2  Item: 111 nails 7900 price: 0.01 Codes used: 123, 234  Item: 123 paper 1000 price: 1.0 Staples  Item: 222 coffee 67 price: 0.25 Loblaws  Item: 234 instructions 5 price: 2.24 Codes used: 123  Item: 456 towel 53 price: 2.67 HomeSense  Item: 666 ladder 6 price: 99.99 HomeDepot |
| Menu input 6 | 6 (then d:\Assign2.txt) |  |
| Menu input 7 | 7 | Have a great day |
| Menu input d | D, !, f, QWER!@#2430589 | Please enter valid number for menu |
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Add items for manufactured item

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| --- | --- | --- |
| Condition | Input | Result |
| Menu input 1 first | Do you wish to add a purchased item(enter P/p)  or manufactrued (enter anything else)?: m  Enter the code for the item: 1  Enter the name for the item: 1  Enter the quantity for the item: 1  Enter the price for the item: 1  Enter up to 10 codes used in this item (-1 to quit): 1  1  Please enter valid code.. this code is already in inventory  1  Please enter valid code.. this code is already in inventory  1  Please enter valid code.. this code is already in inventory  2  -1 |  |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 Codes used: 1, 2 |

Add items for purchased item

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Menu input 1 first | Enter the code for the item: d  Invalid code...please enter integer greater than 0  1  Enter the name for the item: rt  Enter the quantity for the item: d  Invalid quantity...please enter integer greater than 0  Enter the quantity for the item: 1  Enter the price for the item: g  Invalid price...please enter float greater than 0  Enter the price for the item: -  Invalid price...please enter float greater than 0  Enter the price for the item: 1  Enter the name of the supplier: - |  |
| Menu input 2 | 2 | Item: 1 rt 1 price: 1.0 - |

Input values with binary search (Menu 1)

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| --- | --- | --- |
| Condition | Input | Result |
| Menu input 1 first | 1 then  P, 30, 1, 1, 1, 1  P, 29, 2, 2, 2, 2  P, 31, 3, 3, 3, 3  M, 102, 4, 4, 4, 4, 5, 6, 7, -1  M, 13, 1, 5, 5, 5, 6, -1 |  |
| Menu input 2 | 2 | Item: 13 1 5 price: 5.0 Codes used: 5, 6  Item: 29 2 2 price: 2.0 2  Item: 30 1 1 price: 1.0 1  Item: 31 3 3 price: 3.0 3  Item: 102 4 4 price: 4.0 Codes used: 4, 5, 6, 7 |

Load file with value by user input

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Menu input 1 first | 1 then  P, 1, 1, 1, 1, 1  P, 113, 2, 2, 2, 2  M, 223, 3, 3, 3, 3, 4, 5, 6 |  |
| Menu input 5 | D:\Assign2.txt | Enter name of file to process: d:\Assign2.txt  Checking feasibility of file...  File load Success.. |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1  Item: 111 nails 7900 price: 0.01 Codes used: 123, 234  Item: 113 2 2 price: 2.0 2  Item: 123 paper 1000 price: 1.0 Staples  Item: 222 coffee 67 price: 0.25 Loblaws  Item: 223 3 3 price: 3.0 Codes used: 3, 4, 5, 6  Item: 234 instructions 5 price: 2.24 Codes used: 123  Item: 456 towel 53 price: 2.67 HomeSense  Item: 666 ladder 6 price: 99.99 HomeDepot |

Load file which is unavailable (Menu 5)

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| --- | --- | --- |
| Condition | Input | Result |
| Menu input 5 | D:\lab2.txt | Invalid Item Code..  Invalid Item name..  Invalid Item quantity..  Invalid Item price.. |

input overwrite file with the value above (menu 6)

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| --- | --- | --- |
| Condition | Input | Result |
| Menu input 6 | D:\test.txt | (text.txt)  p 1 1 1 1.0 1  m 111 nails 7900 0.01 123 234 -1  p 113 2 2 2.0 2  p 123 paper 1000 1.0 Staples  p 222 coffee 67 0.25 Loblaws  m 223 3 3 3.0 3 4 5 6 -1  m 234 instructions 5 2.24 123 -1  p 456 towel 53 2.67 HomeSense  p 666 ladder 6 99.99 HomeDepot |

Input overwrite file when there’s nothing (Menu 6)

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Menu input 6 first | D:\test.txt | (test.txt)  nothing |

input invalid values of items (Menu 3)

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| --- | --- | --- |
| Condition | Input | Result |
| Menu input 1 first | 1 (then 1, 1, 1, 1, 1) |  |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1 (nothing change) |
| Menu input 3 | 3 (then 1, 0) | Error... amount value has to be more than 0 |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1 (nothing change) |
| Menu input 3 | 3 (then 1, !, d) | Invalid Code...please enter integer greater than 0 |

input invalid item code (Menu 3)

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Menu input 1 first | 1 (then 1, 1, 1, 1, 1) |  |
| Menu input 3 | 3 (then -1) | Back to menu |
| Menu input 3 | 3 (then d, @) | Invalid Code...please enter integer greater than 0 |
| Menu input 3 | 3 (then 10) | Back to menu |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1 (nothing change) |

Input invalid item code in sell tab (Menu 4)

|  |  |  |
| --- | --- | --- |
| Condition | Input | Result |
| Menu input 1 first | 1 (then 1, 1, 1, 1, 1) |  |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1 |
| Menu input 4 | 4 (then -1) | back to menu |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1 (nothing changes) |
| Menu input 4 | 4 (then 2) | back to menu |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1 (nothing changes) |
| Menu input 4 | 4 (then 0) | back to menu |
| Menu input 4 | 4 (then p, !, -1) | Enter valid item code: p  Invalid Code...please enter float greater than 0  Enter valid item code: !  Invalid Code...please enter float greater than 0  Enter valid item code: -1 (back to menu) |

Input invalid quantity of items in sell tab (Menu 4)

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| --- | --- | --- |
| Condition | Input | Result |
| Menu input 1 first | 1 (then 1, 1, 1, 1, 1) |  |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1 |
| Menu input 4 | 4 (then 1, 30) | Error... could not sell item – back to menu |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1 |
| Menu input 4 | 4 (then 1, -40, 30) | please enter valid value (it has to be greater than 0):  Error... could not sell item |
| Menu input 2 | 2 | Item: 1 1 1 price: 1.0 1 (nothing changes) |
| Menu input 4 | 4 (then 2, d) | Invalid Code...please enter float greater than 0 - Back to menu |
| Menu input 4 | 4 (then 2, @) | Invalid Code...please enter float greater than 0 - back to menu |
| Menu input 4 | 4 (then 2, 0) | Error... amount value has to be more than 0 |