**CST8130 – Assignment1 test plan**

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| Testing of all data input- documented (2) |
| Boundary/Invalid conditions documented (trying to add more than array will hold, trying to display/update with nothing in array, invalid type of Item, etc)(1) |
| All **types** of Items documented (1) |
| All other good tests documented(1) |

[Menu Testing]

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| **Condition** | **Input** | **result** |
| Menu input of 2 (first input) | 2 | Back to menu |
| Menu input of 3 | 3 (then input itemCode 1) | Back to menu |
| Menu input of 4 | 4 (then input itemCode 1) | Back to menu |
| Menu input of 1 | 1 (then p, 1, 1, 1, 1, ABCmart) |  |
| Menu input of 2 |  | Item: 1 1 1 price: 1.0  Supplier: ABCmart  (input accepted then, back to menu) |
| Menu input of 3 | 3 (then 1, 23) | Back to menu |
| Menu input of 2 |  | Item: 1 1 24 price: 1.0  Supplier: ABCmart  (input accepted then, back to menu) |
| Menu input of 3 (buy) | 3 (then 2) | Code not found in inventory...  Error...could not buy item |
| Menu input of 4 (sell) | 4 (then 1, 21) | Back to menu |
| Menu input of 2 |  | Item: 1 1 3 price: 1.0  Supplier: ABCmart  (input accepted then, back to menu) |
| Menu input of 1 (check other letters in the **p**/P menu) | 1 (then **p**, 1, 2, 3, 4, 1) | Item: 1 2 3 price: 4.0  Supplier: 1 |
| Menu input of 1 (check other letters in the p/**P** menu) | 1 (then **P**, 1, 2, 3, 4, 1) | Item: 1 2 3 price: 4.0  Supplier: 1 |
| Menu input of 1  (check other letters in the manufacture menu) | 1 (then E, 1, 2, 3, 4, 1, 2, 3, 4, 5, -1) | Item: 1 2 3 price: 4.0  Codes used: 1, 2, 3, 4, 5, |

[Checking stock]

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| **Condition** | **Input** | **result** |
| Menu input of 3  (When the inventory doesn’t have any items) | 3 (then 1) | Back to menu |
| Menu input of 4  (When the inventory doesn’t have any items) | 4 (then 1) | Back to menu |
| Menu input of 1  (when item which you sell is not enough) | 1 (then p, 1, 1, 3, 1, man) |  |
| Menu input of 2 |  | Item: 1 1 **3** price: 1.0  Supplier: man |
| Menu input of 4  (check if you can sell 4 items even though you have 3 items) | 4 (then 1, **4**) | Error... could not sell item |
| Menu input of 2 |  | Item: 1 1 **3** price: 1.0  Supplier: man  (Then, back to menu) |
| Menu input of 3 | 3 (then 1, 25) |  |
| Menu input of 2 |  | Item: 1 1 28 price: 1.0  Supplier: man |
| Menu input of 4 | 4 (then 1, 29) | Error... could not sell item |
| Menu input of 2 |  | Item: 1 1 28 price: 1.0  Supplier: man |
| Menu input of 4 | 4 (then 1, 28) |  |
| Menu input of 2 |  | Item: 1 1 0 price: 1.0  Supplier: man |
| Menu input of 1 | 1 (then m, 23, name1, 60, 100, 25, 26, 27) | Item: 1 1 0 price: 1.0  Supplier: man  Item: 23 name1 60 price: 100.0  Codes used: 25, 26, 27, |
| Menu input of 3 | 3 (then 23, 100) |  |
| Menu input of 2 |  | Item: 1 1 0 price: 1.0  Supplier: man  Item: 23 name1 160 price: 100.0  Codes used: 25, 26, 27, |
| Menu input of 4 | 4 (then 23, 161) | Error… Could not sell item |
| Menu input of 2 |  | Item: 1 1 0 price: 1.0  Supplier: man  Item: 23 name1 160 price: 100.0  Codes used: 25, 26, 27, |
| Menu input of 4 | 4 (then 23, 160) |  |
| Menu input of 2 |  | Item: 1 1 0 price: 1.0  Supplier: man  Item: 23 name1 0 price: 100.0  Codes used: 25, 26, 27, |
| Menu input of 3 | 4 (then 33) | Back to the menu (due to not matched itemCode) |
| Menu input of 4 | 4 (then 23, 40) | Error… Could not sell item |
| Menu input of 3 | 3 (then 23, 40) |  |
| Menu input of 2 |  | Item: 1 1 0 price: 1.0  Supplier: man  Item: 23 name1 40 price: 100.0  Codes used: 25, 26, 27, |
| Menu input of 5 |  | Quit |

[Checking 10 Codes of manufacture with invalid input]

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| **Condition** | **Input** | **result** |
| Menu input of 1 (first) |  |  |
| Menu input of 1  (Check if the array is 10) | 1 (then, Q, 3, name2, 4, 4, 4, 5, 6, 7, 5, 4, 6, 7, 8, 3) |  |
| Menu input of 2 |  | Item: 3 name2 4 price: 4.0  Codes used: 4, 5, 6, 7, 5, 4, 6, 7, 8, 3, |
| Menu input of 1  (negative numbers) | 1 (then, m, 2, test3, 34, 55, -2, 23, 4, 3, 5, 6, -7, 65, 56, 8, 10, 11) |  |
| Menu input of 2 |  | Item: 3 name2 4 price: 4.0  Codes used: 4, 5, 6, 7, 5, 4, 6, 7, 8, 3,  Item: 2 test3 34 price: 55.0  Codes used: 23, 4, 3, 5, 6, 65, 56, 8, 10, 11, |
| Menu input of 1 | 1 (then, M**,** 234, name1, 23, 45, asdf, df, 3, 43, 56, -2, -3, 2, 93, 10, 11, 45, 32, 43) |  |
| Menu input of 2 |  | Item: 3 name2 4 price: 4.0  Codes used: 4, 5, 6, 7, 5, 4, 6, 7, 8, 3,  Item: 2 test3 34 price: 55.0  Codes used: 23, 4, 3, 5, 6, 65, 56, 8, 10, 11,  Item: 234 name1 23 price: 45.0  Codes used: 3, 43, 56, 2, 93, 10, 11, 45, 32, 43, |
| Menu input of 1 | 1 (then, e, 100, aHundItem, 100, 100, 100, 110, -1) |  |
| Menu input of 2 |  | Item: 100 aHundItem 100 price: 100.0  Codes used: 100, 110, |
| Menu input of 1 | 1 (then, m, 11, newCase, 11, 110, -1) |  |
| Menu input of 2 |  | Item: 11 newCase 11 price: 110.0  Codes used:  Item: 3 name2 4 price: 4.0  Codes used: 4, 5, 6, 7, 5, 4, 6, 7, 8, 3,  Item: 2 test3 34 price: 55.0  Codes used: 23, 4, 3, 5, 6, 65, 56, 8, 10, 11,  Item: 234 name1 23 price: 45.0  Codes used: 3, 43, 56, 2, 93, 10, 11, 45, 32, 43, |
| Menu input of 1 | 1 (then, m, 101, newCase01, 102, 103, -2, -3, -4, 123, -1) |  |
| Menu input of 2 |  | Item: 11 newCase 11 price: 110.0  Codes used:  Item: 3 name2 4 price: 4.0  Codes used: 4, 5, 6, 7, 5, 4, 6, 7, 8, 3,  Item: 2 test3 34 price: 55.0  Codes used: 23, 4, 3, 5, 6, 65, 56, 8, 10, 11,  Item: 234 name1 23 price: 45.0  Codes used: 3, 43, 56, 2, 93, 10, 11, 45, 32, 43,  Item: 101 newCase01 102 price: 103.0  Codes used: 123, |
| Menu input of 1 | 1 (then, m, e, r, ppp, itistesting, 1001, testIntSt, 100, 30, e, r, 1002, 300, 200, 400, 500, 600, 700, 800, 90, r, e, w, 10) | Item: 1001 testIntSt 100 price: 30.0  Codes used: 1002, 300, 200, 400, 500, 600, 700, 800, 90, 10, |

[Checking purchased Items with invalid input]

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| **Condition** | **Input** | **Result** |
| Menu input of 1 (first input) | 1 (then, P, 400000, boundaryischeckingforthetesthowmanyletters  canyousaveit, 700000000, 900000000000, supplier'scheckingischeckingischecking) |  |
| Menu input of 2 |  | Item: 400000 boundaryischeckingForthetest  howmanyletterscanyousaveit 700000000 price: 8.9999999E11  Supplier: supplier'scheckingischeckingischecking |
| Menu input of 1  (itemCode doesn’t has to be negative) | 1 (then, p, -1, -4, -10, 12, name1, 12, 12, nameSu1) |  |
| Menu input of 2 |  | Item: 400000 boundaryischeckingForthetest  howmanyletterscanyousaveit 700000000 price: 8.9999999E11  Supplier: supplier'scheckingischeckingischecking Item: 12 name1 12 price: 12.0  Supplier: nameSu1 |
| Menu input of 1 | 1 (then, p, code, 123, i, n, v, a, e, 12, r, e, 12, -1) |  |
| Menu input of 2 |  | Item: 400000 boundaryischeckingForthetest  howmanyletterscanyousaveit 700000000 price: 8.9999999E11  Supplier: supplier'scheckingischeckingischecking Item: 12 name1 12 price: 12.0  Supplier: nameSu1  Item: 123 i 12 price: 12.0  Codes used: |