***CST8130 – Assign 1 Test Plan***

CST8130\_300

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**Menu Testing**

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| --- | --- | --- |
| Condition | Input | Result |
| Menu input of 1 first | 1, to prompt the input for item option | Process to below testing |
| Menu input of 1 | 1, to prompt the input for item option | Process to below testing |
| Menu input of 1 | 1, to prompt the input for item option | Process to below testing |
| Menu input of 1 | 1, to prompt the input for item option | Process to below testing |
| Menu input of 2 | 2 | Process to below testing |
| Menu input of 1 | 1, to prompt the input for item option | Process to below testing |
| Menu input of 2 | 2 | Process to below testing |
| Menu input of 3 | 3 | Process to below testing |
| Menu input of 2 | 2 | Process to below testing |
| Menu input of 4 | 4 | Process to below testing |
| Menu input of 2 | 2 | Process to below testing |
| Menu input of 5 | 5 | Program ends |
| Out of boundary input<1 | 0 | Invalid entry message… Invalid entry, valid number is 1-5 – prompted to reenter valid value |
| Character input | a | Invalid entry message… Invalid entry, valid number is 1-5 – prompted to reenter valid value |
| Out of boundary input>5 | 6 | Invalid entry message… Invalid entry, valid number is 1-5 – prompted to reenter valid value |

**Menu 1 – Purchased Item**

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| Condition | Input | Result |
| Input item option =p | p | Process to below testing |
| Good Input code: | 123 | Input accepted, prompt the next line of input |
| Good input name: | paper | Input accepted, prompt the next line of input |
| Good input quantity: | 100 | Input accepted, prompt the next line of input |
| Good input price: | 0.50 | Input accepted, prompt the next line of input |
| Good input supplier name: | staples | Input accepted, back to menu |
| Input item option =P | P | Process to below testing |
| Good Input code: | 666 | Input accepted, prompt the next line of input |
| Good input name: | cup | Input accepted, prompt the next line of input |
| Good input quantity: | 80 | Input accepted, prompt the next line of input |
| Good input price: | 5 | Input accepted, prompt the next line of input |
| Good input supplier name: | Starbucks | Input accepted, back to menu |
| Bad input quantity: | A | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad input quantity: | 0.5 | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad input price: | -23 | Invalid entry message… float greater than 0 – prompted to reenter valid value |
| Bad input price: | e | Invalid entry message… float greater than 0 – prompted to reenter valid value |
| Bad input price: | 0 | Invalid entry message… float greater than 0 – prompted to reenter valid value |

**Menu 1 – Manufactured Item**

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| Condition | Input | Result |
| Input item option (any except “P or p”) | M | Process to below testing |
| Good Input code: | 444 | Input accepted, prompt the next line of input |
| Good input name: | nail | Input accepted, prompt the next line of input |
| Good input quantity: | 25 | Input accepted, prompt the next line of input |
| Good input price: | 1 | Input accepted, prompt the next line of input |
| Good input codes used: | 123, -1(to exit) | Input accepted, back to menu |
| Input item option (any except “P or p”) | E007 | Process to below testing |
| Good Input code: | 001 | Input accepted, prompt the next line of input |
| Good input name: | lids | Input accepted, prompt the next line of input |
| Good input quantity: | 90 | Input accepted, prompt the next line of input |
| Good input price: | 0.1 | Input accepted, prompt the next line of input |
| Good input codes used: | 666, -1(to exit) | Input accepted, back to menu |
| Good input codes used (10 codes, within boundary): | 123, 112, 236,456, 789, 525,145, 235, 747,999 | Input accepted, back to menu |
| Input item option | dup |  |
| Input code (duplicate): | 444 | Input accepted but not stored in inventory (see inventory test), prompt the next line of input |
| Input name: | pen | Input accepted but not stored in inventory (see inventory test), prompt the next line of input |
| Input quantity: | 10 | Input accepted but not stored in inventory (see inventory test), prompt the next line of input |
| Input price: | 0.7 | Input accepted but not stored in inventory (see inventory test), prompt the next line of input |
| Input codes used: | 545, -1(to exit) | Input accepted but not stored in inventory (see inventory test), prompt the next line of input |
| Bad Input code: | 123bac | Invalid entry message – prompted to reenter valid value |
| Bad Input code: | 0.5 | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad Input code: | -4$ | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad input quantity: | -8 | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad input quantity: | @ | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad input quantity: | 0.3 | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad input price: | x | Invalid entry message… float greater than 0 – prompted to reenter valid value |
| Bad input price: | \* | Invalid entry message… float greater than 0 – prompted to reenter valid value |
| Bad input price: | 0.0 | Invalid entry message… float greater than 0 – prompted to reenter valid value |
| Bad input codes used: | abc | Invalid entry message – prompted to reenter ab integer: |

**Menu 2 – Inventory Display**

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| Condition | Input | Result |
| User enter non-duplicate code in per item | p: 123, P: 666, M: 444, E007: 001 | Prompt each purchased item code, name, price, supplier name, and each manufactured item code, name, price and code used; |
| User enter duplicate code in per item | dup: 444, | Item of p: 123, P: 666, M: 444, E007: 001 with related information will be listed.  dup: 444 will not be stored and not be prompted in the screen. |
| After buying items | Item code: 123  Quantity:100 | Quantity of item 123 is added 100. Now it should show 200 in inventory. |
| After selling items | Item code: 666  Quantity: 70 | Quantity of item 666 is subtracted by 70. Now it should show 10 in inventory. |

**Menu 3 – Buy an item**

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| Condition | Input | Result |
| Good input item code | 123 | Input accepted, prompt to next process |
| Good input quantity (input >0) | 100 | Input accepted, back to menu |
| Bad item code (not in inventory) | 888 | Error message “Code not found in inventory...  Error...could not buy item”, back to menu. |
| Bad item code | Ii[ | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad input quantity | 0 | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad input quantity | 0.3 | Invalid entry message… integer greater than 0 – prompted to reenter valid value |

**Menu 4 – Sell an item**

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| Condition | Input | Result |
| Good input item code | 666 | Input accepted, prompt to next process |
| Good input quantity (input >0) | 70 | Input accepted, back to menu |
| Bad item code (not in inventory) | 999 | Error message “Code not found in inventory...  Error...could not sell item”, back to menu. |
| Bad item code | yes | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad item code | -0.65 | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad item code (Out of boundary of itemQuantityInStock) | 100 | Error message “Error...could not sell item”, back to menu. |
| Bad input quantity | 0 | Invalid entry message… integer greater than 0 – prompted to reenter valid value |
| Bad input quantity | -2.5 | Invalid entry message… integer greater than 0 – prompted to reenter valid value |