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| --- | --- | --- |
| Test Scenario | Step in Flow | Alternative |
| Scenario 1 - Successful Sale | Basis |  |
| Scenario 2 - Customer non-existent | Basis | 1a |
| Scenario 3 - Product non-existent | Basis | 3a |
| Scenario 4 – Invalid quantity | Basis | 3b |

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| --- | --- | --- | --- | --- | --- |
| Test Case ID | Scenario | Input | | | Expected Result |
| Customer Name | Product Name | Quantity |
| Q 1 | Successful Sale | V | V | V | * Customer is found in the system. * Product is found in the system. * Legitimate quantity is inserted. * A sale is made |
| Q 2 | Customer doesn’t exist | I | V | V | A message should be sent to the user that there is no such customer. |
| Q 3 | Product doesn’t exist | V | I | V | A message should be sent to the user that there is no such product. |
| Q 4 | Bad quantity input | V | V | I | A message should be sent to the user that there is not enough items for the order. |

0 Amount in Stock

Amount

Invalid Valid Invalid

0

Amount in Stock

Invalid Valid

|  |  |  |  |
| --- | --- | --- | --- |
| Method: public int AddSaleLine(name, quantity) | | | |
| Test Case No. | Initialisation State  item.InStock() | Input  Amount | Expected Output |
| 1 | 20 | 1 | Return 1  In stock: 19 |
| 2 | 20 | 20 | Return 20  In stock: 0 |
| 3 | 20 | 0 | Return 0  In stock: 20 |
| 4 | 20 | 21 | Return 0  In stock: 20 |
| 5 | 20 | -1 | Return 0  In stock: 20 |
| 6 | 0 | 1 | Return 0  In stock: 0 |