Application Testing

Requirements

R1 - Each Item has an ID – (Cannot be less than 0)
R2 - Each Item has a Name (Cannot be empty)
R3 - Each Item has a Quantity (Cannot be less than 0)
R4 - If Transaction type is 'Remove', it must have an Employee Name
R5 - If Transaction type is 'Add', it must have a Price
R6 - Each Transaction has a Date
R7 - When removing an Item from Stock, it must have a Quantity of at least 1
R8 - An Employee's Transactions must be able to be tracked.
R9 - All Financial Transactions must be able to be tracked.

Application Testing

Test	Req	Instruction	Expected	Actual
N1	R1	Add an Item with the ID '1'	Item is added Successfully and is shown in the Transaction Log and Inventory Report.	Item is added Successfully and is shown in the Transaction Log and Inventory Report. *IMAGE 1 & IMAGE 2*
N2	R2	Add an Item with the Name 'Stapler'		
N3	R3	Add an Item with Quantity '3'		
N4	R5	Add an Item with Price '2.99'		
N5	R6	Add an Item with Date '11/03/2020 15:12:15'		
N6	R7	Remove an Item with Quantity '3'	Item is removed Successfully and is shown in the Transaction Log and Inventory Report.	Item is removed Successfully and is shown in the Transaction Log and Inventory Report. *IMAGE 3 & IMAGE 4*
N7	R4	Remove an Item with the Employee Name 'Dave'		
N8	R7	Remove and Item with Date '12/03/2020 12:12:12'		
N9	R8	Show Employee Transactions with Name 'Dave'	Successfully shows 'Dave's Transactions	Successfully shows 'Dave's Transactions *IMAGE 5*
N10	R9	Show Financial Report	Successfully Shows all Item's Costs and Total Expenditure	Successfully Shows all Item's Costs and Total Expenditure *IMAGE 6*
I1	R1	Add an Item with the ID ' '	Disallowed invalid data entry and supplied an error message to the user which asks them to repeatedly try again until they supply data that is valid.	Successfully disallows any invalid data entry and supplies a relevant error message *IMAGE 7 & IMAGE 8*
I2	R1	Add an Item with the ID '-1'		
I3	R2	Add an Item with the Name ' '		
I4	R3	Add an Item with the Quantity '-1'		
I5	R3	Add an Item with the Quantity ' '		
I6	R5	Add an Item with the Price '-1'		
I8	R4	Remove an Item with Employee Name ' '		
I9	R6	Add an item with date ' '		
I10	R6	Remove an item with date ' '		
B1	R1	Add an Item with the ID '0'	Disallow and supply error message	Disallowed and Supplied error message *IMAGE 9*
B2	R3	Add an Item with Quantity '0'		
B3	R5	Add an Item with Price '0'		
B4	R2	Add an Item with the Name '123'	Allow Name	Allowed all data *IMAGE 10 & IMAGE 11*
B5	R4	Remove an Item with Employee Name '123'	Allow Employee Name	
B6	R6	Add an Item with Date '12/12/2012'	Allow Date (Just will not record time)	
S1	R7	Remove Item before Item is added	Do nothing	Does Nothing / Displays empty output *IMAGE 12 & 13 & 14 & 15 & 16*
S2	R1-3	Display Inventory Report before Items are Added	Display empty output	
S3	R6	Display Transaction Log before any Transactions	Display empty output	
S4	R9	Display Financial Report before any Items Added	Display empty output	
S5	R8	Display Personal Usage Report before any Items Taken	Display empty output	

Application Testing

| IMAGE 1 | ```
Transaction Log
        Date                    Type    ID  Name          Employee    Price
        11/03/2020 15:12:15 add     1   Stapler                   2.99
``` |
| IMAGE 2 | ```
Inventory Report
        ID  Name          Quantity
        1   Stapler       3
``` |
| IMAGE 3 | ```
Transaction Log
        Date                    Type    ID  Name          Employee    Price
        11/03/2020 15:12:15 add     1   Stapler                   2.99
        12/03/2020 12:12:12 remove  1   Stapler       Dave
``` |
| IMAGE 4 | ```
Inventory Report
        ID  Name          Quantity
        1   Stapler       2
``` |
| IMAGE 5 | ```
Transaction Log
        Date                    Type    ID  Name          Employee    Price
        12/03/2020 12:12:12 remove  1   Stapler       Dave
``` |
| IMAGE 6 | ```
Financial Report
        ID  Name          Expenditure
        1   Stapler       2.99

        Total Expenditure is: 2.99
``` |

IMAGE 7		Item ID: > -1 Please enter a number larger than 0. Item ID: > 1 Item Name: > Please enter a String. Item Name: > Name Quantity: > -1 Please enter a number larger than 0. Quantity: > Invalid Input, try again. Quantity: > 1 Price: > -1 Please Enter a Decimal larger than 0. Price: > 0 Please Enter a Decimal larger than 0. Price: > 1.00 Date added: > Invalid Input, try again. Date added: > 12/12/2012 12:12:12	
IMAGE 8		Item ID: > -1 Please enter a number larger than 0. Item ID: > Invalid Input, try again. Item ID: > 1 Employee Name: > Please enter a String. Employee Name: > Name Date removed: > Invalid Input, try again. Date removed: > -1 Invalid Input, try again. Date removed: > 12/12/2012 12:12:12	

Application Testing

| *IMAGE 9* | ```
Item ID: > 0
Please enter a number larger than 0.

Item ID: > 1
Item Name: > Name
Quantity: > 0
Please enter a number larger than 0.
Quantity: > 1
Price: > 0
Please Enter a Decimal larger than 0.
Price: > 1
Date added: >
``` |
| *IMAGE 10* | ```
Item ID: > 2
Item Name: > 123
Quantity: > 1
Price: > 1
Date added: > 12/12/2012
``` |
| *IMAGE 11* | ```
Item ID: > 1
Employee Name: > 123
Date removed: > 12/12/2012
``` |
| *IMAGE 12* | ```
Option: > 2

Item ID: > 101
Employee Name: > James
Date removed: > 12/12/12
``` |
| *IMAGE 13* | ```
Option: > 3

Inventory Report
        ID   Name              Quantity
``` |

Application Testing

| *IMAGE 14* | ```
Option: > 5

Transaction Log
        Date                    Type    ID   Name         Employee    Price
``` |
| *IMAGE 15* | ```
Option: > 4

Financial Report
        ID   Name        Expenditure

        Total Expenditure is: 0
``` |
| *IMAGE 16* | ```
Option: > 6
Employee: > James

Transaction Log
        Date                    Type    ID   Name         Employee    Price
``` |