Black Box Testing
Resource Management

Equivalent Class Partitioning:

Valid check:

CLASS ID	INPUT	OUTPUT
VE1	Name	Item name (with or without description)
VE2	Quantity	Positive number only

Invalid check:

CLASS ID	INPUT	OUTPUT
IVE1	Name	Empty
IVE2	Quantity	o/negative value/null

Individual Field Equivalence Classes

1.1 Name

Name	"Rice"	Valid: Accepted
Name	""	Invalid: "This field cannot be blank"
Name	"A"*257	Invalid: "Ensure this value has at most 256 characters"

1.2 Quantity

Quantity	[1, 2, 3]	Valid: Accepted
Quantity	""	Invalid: "This field cannot be blank"
Quantity	0	Invalid: "This field can only accept value >1"
Quantity	Negative value	Invalid: "This field can only accept value >1"
Quantity	"5 Kg"	Invalid: "Invalid input type"

Equivalent Classes:

CLASS ID	NAME	QUANTITY
EC1	Valid	Valid
EC2	Valid	Invalid
EC3	Invalid	Valid
EC4	Invalid	Invalid

Boundary Value Analysis:

Fields and Their Boundaries:

Name:
- Minimum length: 1 character
- Maximum length: 50 character
- Test for length = 0,1,2(lower boundary)
- Test for length = 49,50,51(upper boundary)
- Test cases = 6

Quantity :

- Test for :
  - Empty
  - Negative number
  - 0
  - Positive number
  - Test cases = 4

Calculation of Total Test Cases:

Name: 6(3 lower+3upper)
Quantity:4
Total Test Cases =6 x 4 = 24

TEST CASE ID	NAME	QUANTITY	EXPECTED OUTPUT	DISPLAYED OUTPUT
TC1	*Empty*	*Empty*	Enter valid name,quantity	same
TC2	*Empty*	Negative no.	Enter valid name,quantity	same
TC3	*Empty*	0	Enter valid name,quantity	same
TC4	*Empty*	Positive no.	Enter valid name	same
TC5	1 char	*Empty*	Enter valid quantity	same
TC6	1 char	Negative no.	Enter valid quantity	same
TC7	1 char	0	Enter valid quantity	same
TC8	1 char	Positive no.	Accepted	same

TC9	2 char	*Empty*	Enter valid quantity	same
TC10	2 char	Negative no.	Enter valid quantity	same
TC11	2 char	0	Enter valid quantity	same
TC12	2 char	Positive no.	Accepted	same
TC13	49 char	*Empty*	Enter valid quantity	same
TC14	49 char	Negative no.	Enter valid quantity	same
TC15	49 char	0	Enter valid quantity	same
TC16	49 char	Positive no.	Accepted	same
TC17	50 char	*Empty*	Enter valid quantity	same
TC18	50 char	Negative no.	Enter valid quantity	same
TC19	50 char	0	Enter valid quantity	same
TC20	50 char	Positive no.	Accepted	same
TC21	51 char	*Empty*	Enter valid name,quantity	same
TC22	51 char	Negative no.	Enter valid name,quantity	same
TC23	51 char	0	Enter valid name,quantity	same
TC24	51 char	Positive no.	Enter valid name	same