## Practical 2 : Design Test cases for Inventory Management system based on System Specifications.

### ☆ Test Cases :

| ID | Test Case | Steps | Expected | Actual | Result |
|---|---|---|---|---|---|
| 01 | Test if user is able to login. | Enter correct ID and password | Login must be successful. | Login is successful. | Pass. |
| 02 | Test if user is able to add item to inventory. | 1) Right click on product. 2) Select 'Add to Cart'. | Must display "Added to Cart". | Displays "Added to Cart" | Pass. |
| 03 | Test if user is able to view inventory. | 1) Go to Home. 2) Click on 'Cart'. | Inventory must be displayed | Inventory is displayed. | Pass. |
| 04 | Test if user is able to order item. | 1) Right Click on 'item' 2) Click on 'order' | Item must be successfully ordered. | Item is successfully ordered | Pass. |
| 05 | Test if user is able to order all the items. | 1) Click on top 'Inventory'. 2) Click on 'Order All' | All the items must be ordered. | All the items are ordered | Pass. |

| ID | Test Case | Steps | Expected | Actual | Result. |
|---|---|---|---|---|---|
| 06 | Test if user is able to remove an item from cart | 1) Right click on item.<br>2) Click on remove item. | Item must be removed. | Item is removed. | Pass. |
| 07 | Test if user is able to change quantity | 1) Click on item.<br>2) Click on quantity.<br>3) Increase or decre-ase or enter manually. | Item quantity must be changed. | Item quantity is changed. | Pass. |
| 08 | Test if you can remove all items. | 1) Click on cart<br>2) Click on 'Remove All'. | All Items must be removed. | All Items are removed. | Pass. |
| 09 | Test if user is able to share cart with other users. | 1) Click on Cart<br>2) Click on share<br>3) Search the user you want to share with. | Cart must be shared. | Cart is shared. | Pass. |
| 10 | Test if user is able to logout of account. | 1) Click on logout on top right on Home | User must logout | User is logged out. | Pass. |

## ☆ Practical Related Questions :

1. What are major system specifications of Inventory Management System?

→ Major System Specifications of Inventory Management System are as follows :

(i) Customer Registration -

IMS provides customer registration and status information to the administrator to view their status. IMS provides automatic customer registeration algorithms.

(ii) Product Management -

Easily track project information quickly produce reports for multiple sold products. Easy tracking of rewards and updating can be done. These requirements do not impose any constraints on the execution characteristics of the system. They are :

1) No. of Terminals - The software makes use of an underlying database that will reside at same system, front end toadministrative PC.
2) No. of Users - The number of users can be extended to applications for almost all staff members of organization.

2. What are functions of Inventory Management System?

→ Functions of Inventory Management System are :

(i) Barcode Scanning :
Easily identify and track your products inventory management software integrates with barcode scanner for instant product identification & labelling.

(ii) Iventory optimization :
Maintain just the right amount of inventory for each product without over or understocking any item. It is specially useful if you deal in products that experience a seasonal rise and fall in demand

(iii) Multi location Management :
Manage multiple warehouse and points of sale. All locations can be integrated within a single IMS.

(iv) Stock Return Handling :
Manage returns more effectively by reducing time to return through automation of entire process.

3. What is the significance of Inventory Management System as per Business needs?

→ The following is the significance of IMS as per Business perspective :

(i) Helps with forward planning -
Inventory Management is a major company asset that helps a company with tasks. Planning is a key task that helps a manufacturer stay within budget.

(ii) Increase customer service & satisfaction -
Good IMS means that when customer enquires about certain items a manufacturer will quickly be able to identify availability. This enables fast responsive time to queries and in return customers get a better impression of the business.

(iii) Increase Manufacturer efficiency -
Accurate inventory management can help increase a manufacturer's overall efficiency.

## ☆ Exercise :

1. Generate the test case to validate suppliers contact details like Mobile no., e-mail.

→ Test case for info :

| ID | Test Case | Steps. | Expected | Actual | Result |
|---|---|---|---|---|---|
| 01 | Test to check entered no. is valid or not. | 1) Enter 10 digit nuber with initial 2 no. with (7 & 9) India. | 'valid no.' must be displayed. | 'Valid no.' is displayed. | Pass. |
| 02 | Test to check if entered no. belongs to user or not. | 1) Enter valid no. 2) Enter OTP recieved on that no. | 'Success -fully added no.' | 'success -fully added no.' | Pass. |
| 03 | Test to check entered email is valid or not | Enter email id with format : [**@**.**] | 'Valid Email' displayed. | 'Valid Email' is displayed. | Pass |
| 04 | Test to check if entered email belongs to user or not. | 1) Enter valid mail. 2) Enter OTP sent to that email. | 'Success in Validation' must be displayed. | 'Success in Validation' is displayed. | Pass. |

2. Generate test case to validate quantity for selected items/ goods.

→ Test case :

| ID. | Test case. | Steps. | Expected | Actual | Result |
|---|---|---|---|---|---|
| 01 | Test if user can edit quantity of item. | 1) Click on item. 2) click on quantity. 3) Change quantity between 1 & 100. | Item quantity will be changed. | Item quantity is changed. | Pass. |
| 02 | Test if user is able to enter invalid quantity. | 1) Open quantity. 2) Increase quantity to 101. | "Invalid" must be displayed. | "Invalid" is displayed. | Pass. |
| 03 | Test if user is able to increment or decrement. | 1) Click on (+) to increment by 1 and (-) to decrement by 1. | Item quantity will be changed accordingly | Item quantity is changed accordingly. | Pass. |
| 04 | Test if user can enter any number manually and price gets changed along with quantity. | 1) Open quantity 2) Change quantity between 1 & 100. 3) Click enter to apply changes. | Price must be changed according to quantity. | Price is changed according to quantity. | Pass. |

3. Generate test case created in question 1 by entering email address as "abc@pqrs" and mobile number as "12345678", note down the results.

→ Test case :

| ID | Test case. | Steps. | Expected | Actual | Result |
|---|---|---|---|---|---|
| 01 | Test if user enters invalid Mobile no. | 1) Enter '12345678' as mobile no. | 'Enter Correct no.' must be displayed. | 'Enter correct no.' is displayed. | Pass. |
| 02 | Test if user enter invalid email id. | Enter 'abc@pqrs' as email id. | 'Invalid id' must be displayed. | 'Invalid id' is displayed. | Pass. |

As the criteria for a successful login/signup is 10 digit mobile no. with initial two no. as (7-9) and email id in format of [**@**.**], if user tries to enter anything other than this he will not be able to login/signup.

Result :

The System responded correctly or in the way which it was designed to. Hence the result is Pass.

4. Execute test cases created in question 2 by entering quantity above 100 and below 1, note down the result.

→ Test case :

| ID | Test case. | Steps. | Expected | Actual | Result |
|---|---|---|---|---|---|
| 01 | Test if user enters quantity as less than 0 or greater than 100. | 1) Open quantity option. 2) Enter any no. less than 0 or greater than 100. | 'Invalid no.' must be displayed. | 'Invalid no.' is displayed. | Pass. |

Here, the criteria for a valid input is a non-decimal number between 1 & 100, (inclusive). So if the user tries to enter any thing else than this, system must not accept it.

Result :

As the user entered a negative no. or a number greater than 100, System did not accept it. Hence the result for this case would be Pass.