

Question 1 – Functional Requirements.**Answer – Functional Requirements.**

Req ID	Requirement Name	Requirement Description	Priority
FR001	Farmer Registration	Farmers from remote areas register on the app to access agricultural products and services.	8
FR002	Farmer Search for Products	Farmers search fertilizers, seeds, pesticides by name, category, or company for easy purchase.	8
FR003	Product Catalogue	Displays listed products from manufacturers for farmers to browse with details like type, price, and quantity.	7
FR004	Shopping Cart	Farmers add selected products to cart, review, modify quantities before purchase.	7
FR005	Payment Processing	Facilitates secure online payments enabling farmers to pay using available payment methods.	7
FR006	Order Management	Farmers can track orders, view status updates, and manage purchases through the app.	6
FR007	Product Review and Ratings	Farmers provide feedback, rate products helping others choose quality products from trusted manufacturers.	6
FR008	Wishlist	Farmers can save frequently needed products for future purchases without searching again.	4
FR009	Shipping and Delivery	Ensures products are delivered to farmers' doorstep in remote areas with tracking facility.	4
FR0010	Return and Refund Policy	Farmers can return unsatisfactory or damaged products and request refunds as per policy.	5
FR0011	Add to buy later	Allows farmers to save products they plan to buy later, ensuring easy access.	5
FR0012	Order ID	Generates unique order ID for	6

		each purchase to track and manage orders efficiently.	
FR0013	Product Offers	Displays ongoing discounts, offers on seeds, fertilizers, pesticides helping farmers buy at lower prices.	4
FR0014	Customer Support	Provides farmers access to customer care for queries, order issues, or product-related concerns.	7
FR0015	Email Confirmation	Sends confirmation emails for farmer registration, orders, payment, and delivery status updates.	6
FR0016	Invoice	Generates detailed invoices post-purchase including product details, taxes, and payment status for farmer records.	5
FR0017	Print Invoice	Farmers can download and print invoices for accounting or subsidy purposes.	4
NFR001	Performance Efficiency	Application should load pages, search results, and transactions within 3 seconds under normal conditions.	8
NFR002	Security	Farmers manage profile, address, payment details, and view order history within the app.	8
NFR003	Availability	Must ensure secure transactions, protect user data, and comply with data privacy standards (SSL, encryption).	5

Question 2 – Minimum 5 Page Designs

Answer – Page Designs

➤ Log IN

A Web Page

www.farmerSells.com

☐

Farmer Bazar

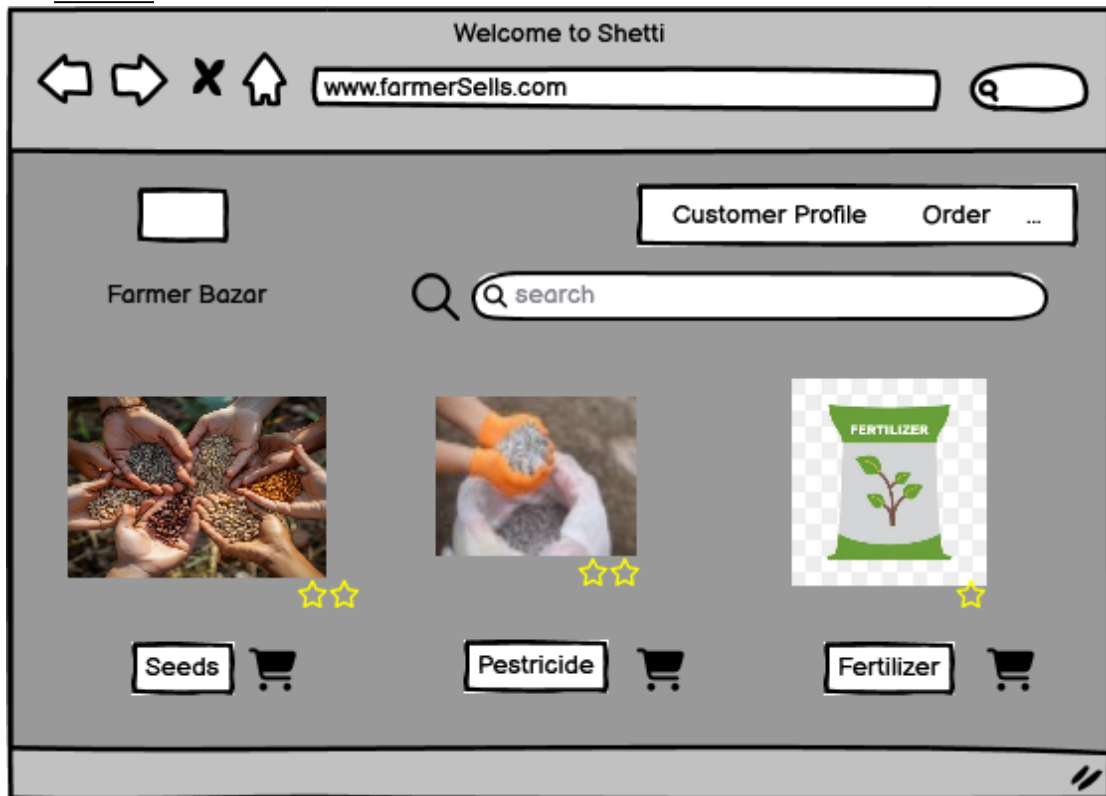
Username

Password

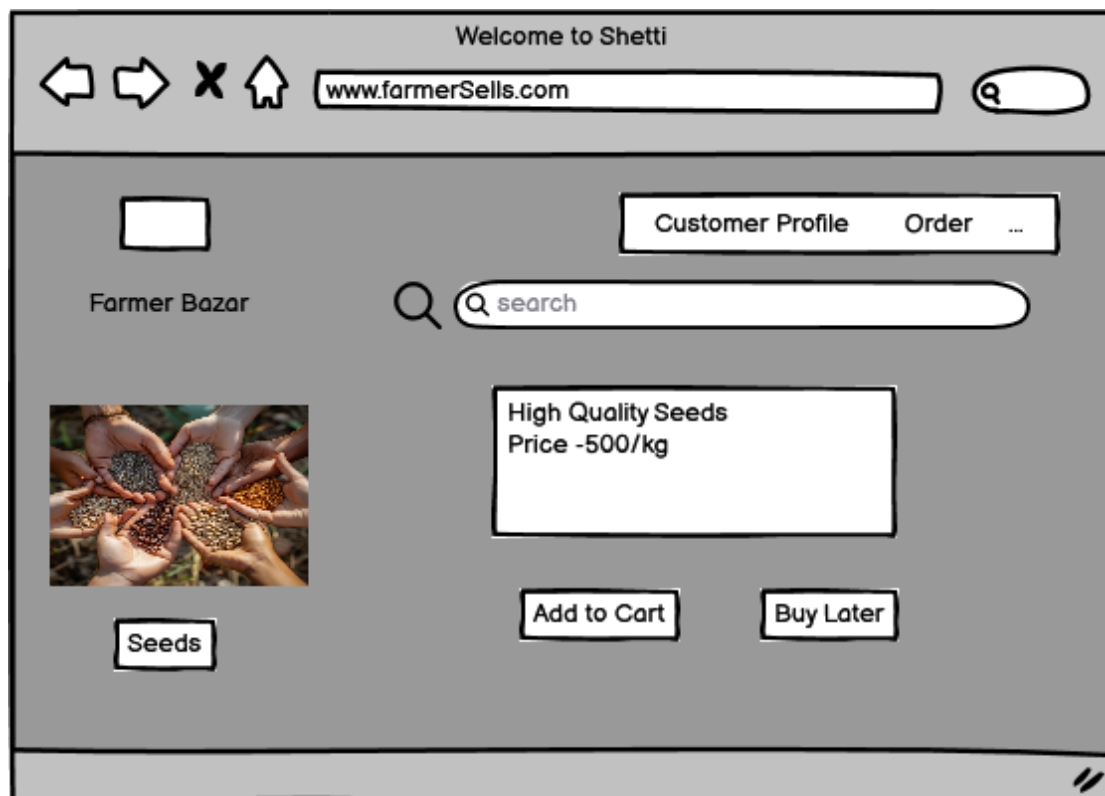
☐ Remember

[Forgot Password ?](#)

➤ Search



➤ Add to Cart



➤ Payment

Welcome to Shetti

← → ✕ 🏠 🔍

Customer Profile Order ...

Farmer Bazar



Cart

High Quality Seeds
Price -500/kg

500 + 50 standard delivery charges

Total Amount

Pay by Card

Card Number

Expiry Date CVV

Name of Card

➤ Log OUT

Welcome to Shetti

← → ✕ 🏠 🔍

Customer Profile Order ...

Farmer Bazar

🔍

User Name

Email ID

Save Address

Log Out

Question 3 – Tools

Answer – Tools

- MS Visio is software for drawing a variety of diagrams which includes flow charts, flow diagrams, swim lane diagrams and more. It is used for creating enterprise process diagrams and helps to organize complex ideas visually.
- Balsamiq is a graphical user interface website wireframe builder application. It allows the designer to arrange pre-built widgets using a drag and drop editor.

Question 4 – RTM

Answer – Requirements Traceability Matrix (RTM)

Req ID	Req Name	Req Description	Design	D 1	T 1	D 2	T 2	D 3	T 3	D 4	T 4	UAT
FR001	Farmer	Farmers should be able to register with the application.	Pass	P a	P a	P a	P a	P a ss	P a ss	P a ss	P a	Pass
	Registration			s s	s s	s s	s s		s s		s s	
FR002	Farm er Search for Products	Farmers should be able to search for available products in fertilizers, seeds, pesticides.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss s	P a s	P a ss s	P a s	Pass
FR003	Product Catalogue	Display all Products in user friendly format and with detailed specification.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss s	P a s s	P a ss s	P a s	Pass
FR004	Shopping Cart	Allow Farmers to add product to Shopping Cart.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss s	P a s	P a ss s	P a s	Pass
FR005	Payment Processing	Provide secure payment processing options to farmers using Payment gateways.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss s	P a s	P a ss s	P a s	Pass

FR013	Product Offers	Allow Farmers to view offers on their product.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss	P a s s	P a ss	P a s s	Pass
FR014	Customer Support	Allow Farmers to contact manufacturers or support team for solving their issues using Customer Support.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss	P a s s	P a ss	P a s s	Pass
FR015	Email Confirmation	Provide Farmers with email confirmation after an order is successfully placed.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss	P a s s	P a ss	P a s s	Pass
FR016	Invoice	After Completion of order Invoice should be generated	Pass	P a s s	P a s s	P a s s	P a s s	P a ss	P a s s	P a ss	P a s s	Pass
FR017	Print Invoice	Allow Farmers and Manufacturers to Print Invoice.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss	P a s s	P a ss	P a s s	Pass
FR018	Cancellation	Allow Farmers to Cancel Product.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss	P a s s	P a ss	P a s s	Pass
FR019	Customer Profile	Allow Farmers to update their Customer Profile.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss	P a s s	P a ss	P a s s	Pass
FR020	Payment Options	Allow Farmers to Pay using UPI or Credit Card.	Pass	P a s s	P a s s	P a s s	P a s s	P a ss	P a s s	P a ss	P a s s	Pass

Question 5 - Test Case Document

Answer - 10 Test case

Test Case 1 :

Test case ID	SG123TS001	Test Case Name	Search Query
Project ID	SG123	Project name	Online product booking.
PM ID	007	PM Name	Mr. Vandanam
Test Strategy ID	SG123TS001	Tester ID	001 & 009
Test Plan ID	SG123TP001	Tester Name	Jason and Alekya
Test Schedule ID	SG123TS001	Date of Test	01/05/2025
Scenario	Search for Product		
Link to that page			
	Set 1	Set 2	Set 3
Input Data	1.Pesticides 2.01/05/2025 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Fertilizers 2.01/05/2025 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Seeds 2.01/05/2025 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment
Expected Behavior	10 Product Details come for above data	10 Product Details come for above data	10 Product Details come for above data
Actual Behavior	9 Products are displayed	10 Products are displayed	10 Products are displayed
Comment	One product missing	Matching the requirements	Matching the requirements
Result Pass/Fail	Fail	Pass	Pass

Test Case2 :

Test case ID	SG123TS002	Test Case Name	Search Query
Project ID	SG123	Project name	Online product booking.
PM ID	007	PM Name	Mr. Vandanam
Test Strategy ID	SG123TS002	Tester ID	001 & 009
Test Plan ID	SG123TP002	Tester Name	Jason and Alekya
Test Schedule ID	SG123TS002	Date of Test	07/05/2025
Scenario	Display all Product		
Link to that page			
	Set 1	Set 2	Set 3

Input Data	1.Pesticides 2.07/05/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Fertilizers 2.07/05/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Seeds 2.07/05/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment
Expected Behavior	10 Product Details come for above data	10 Product Details come for above data	10 Product Details come for above data
Actual Behavior	10 Products are displayed	10 Products are displayed	10 Products are displayed
Comment	Matching the requirements	Matching the requirements	Matching the requirements
Result Pass/Fail	Pass	Pass	Pass

Test Case 3:

Test case ID	SG123TS003	Test Case Name	Search Query
Project ID	SG123	Project name	Online product booking.
PM ID	007	PM Name	Mr. Vandanam
Test Strategy ID	SG123TS003	Tester ID	001 & 009
Test Plan ID	SG123TP003	Tester Name	Jason and Alekya
Test Schedule ID	SG123TS003	Date of Test	14/05/2025
Scenario	Add Product to Cart		
Link to that page			
	Set 1	Set 2	Set 3
Input Data	1.Pesticides 2.14/05/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Fertilizers 2.14/05/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Seeds 2.14/05/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment
Expected Behavior	03 Product Details come for above data	03 Product Details come for above data	03 Product Details come for above data
Actual Behavior	02 Products are displayed	01 Products are displayed	03 Products are displayed
Comment	One product missing	Two Product Missing	Matching the requirements
Result Pass/Fail	Fail	Fail	Pass

Test Case 4 :

Test case ID	SG123TS004	Test Case Name	Search Query
Project ID	SG123	Project name	Online product booking.
PM ID	007	PM Name	Mr. Vandanam
Test Strategy ID	SG123TS004	Tester ID	001 & 009
Test Plan ID	SG123TP004	Tester Name	Jason and Alekya
Test Schedule ID	SG123TS004	Date of Test	21/05/2025
Scenario	View Order History		
Link to that page			
	Set 1	Set 2	Set 3
Input Data	1.Pesticides 2.21/05/2025 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Fertilizers 2.21/05/2025 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Seeds 2.21/05/2025 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment
Expected Behavior	03 Product Details come for above data	03 Product Details come for above data	03 Product Details come for above data
Actual Behavior	03 Products are displayed	03 Products are displayed	03 Products are displayed
Comment	Matching the requirements	Matching the requirements	Matching the requirements
Result Pass/Fail	Pass	Pass	Pass

Test case 5 :

Test case ID	SG123TS005	Test Case Name	Search Query
Project ID	SG123	Project name	Online product booking.
PM ID	007	PM Name	Mr. Vandanam
Test Strategy ID	SG123TS005	Tester ID	001 & 009
Test Plan ID	SG123TP005	Tester Name	Jason and Alekya
Test Schedule ID	SG123TS005	Date of Test	28/05/2025
Scenario	Payment for Product		
Link to that page			

Test case 6 :

Test case ID	SG123TS006	Test Case Name	Search Query
Project ID	SG123	Project name	Online product booking.
PM ID	007	PM Name	Mr. Vandanam
Test Strategy ID	SG123TS006	Tester ID	001 & 009
Test Plan ID	SG123TP006	Tester Name	Jason and Alekya
Test Schedule ID	SG123TS006	Date of Test	01/06/2025
Scenario	Add Product to Buy later		
Link to that page			
	Set 1	Set 2	Set 3
Input Data	1.Pesticides 2.01/06/2025 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Fertilizers 2.01/06/2025 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Seeds 2.01/06/2025 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment
Expected Behavior	20 Product Details come for above data	20 Product Details come for above data	20 Product Details come for above data
Actual Behavior	20 Products are displayed	20 Products are displayed	10 Products are displayed
Comment	Matching the Requirements	Matching the Requirements	10 Products missing
Result Pass/Fail	Pass	Pass	Fail

Test case 7 :

Test case ID	SG123TS007	Test Case Name	Search Query
Project ID	SG123	Project name	Online product booking.
PM ID	007	PM Name	Mr. Vandanam
Test Strategy ID	SG123TS007	Tester ID	001 & 009
Test Plan ID	SG123TP007	Tester Name	Jason and Alekya
Test Schedule ID	SG123TS007	Date of Test	07/06/2025
Scenario	Offers on Product		
Link to that page			
	Set 1	Set 2	Set 3

Input Data	1.Pesticides 2.07/06/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Fertilizers 2.07/06/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Seeds 2.07/06/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment
Expected Behavior	03 Product Details come for above data	07 Product Details come for above data	10 Product Details come for above data
Actual Behavior	02 Products are displayed	05 Products are displayed	10 Products are displayed
Comment	One product missing	Two Products missing	Matching the requirements
Result Pass/Fail	Fail	Fail	Pass

Test case 8 :

Test case ID	SG123TS008	Test Case Name	Search Query
Project ID	SG123	Project name	Online product booking.
PM ID	007	PM Name	Mr. Vandanam
Test Strategy ID	SG123TS008	Tester ID	001 & 009
Test Plan ID	SG123TP008	Tester Name	Jason and Alekya
Test Schedule ID	SG123TS008	Date of Test	14/06/2025
Scenario	Manufacturer Uploads Product		
Link to that page			
	Set 1	Set 2	Set 3
Input Data	1.Pesticides 2.14/06/2023 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Fertilizers 2.14/06/2023 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Seeds 2.14/06/2023 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment
Expected Behavior	100 Product Details come for above data	100 Product Details come for above data	100 Product Details come for above data
Actual Behavior	100 Products are displayed	100 Products are displayed	100 Products are displayed
Comment	Matching the requirements	Matching the requirements	Matching the requirements
Result Pass/Fail	Pass	Pass	Pass

Test case 9 :

Test case ID	SG123TS009	Test Case Name	Search Query
Project ID	SG123	Project name	Online product booking.
PM ID	007	PM Name	Mr. Vandanam
Test Strategy ID	SG123TS009	Tester ID	001 & 009
Test Plan ID	SG123TP009	Tester Name	Jason and Alekya
Test Schedule ID	SG123TS009	Date of Test	21/06/2025
Scenario	Cancel Product		
Link to that page			
	Set 1	Set 2	Set 3
Input Data	1.Pesticides 2.21/06/2025 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Fertilizers 2.21/06/2025 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Seeds 2.21/06/2025 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment
Expected Behavior	03 Product Details come for above data	03 Product Details come for above data	03 Product Details come for above data
Actual Behavior	03 Products are displayed	03 Products are displayed	03 Products are displayed
Comment	Matching the requirements	Matching the requirements	Matching the requirements
Result Pass/Fail	Pass	Pass	Pass

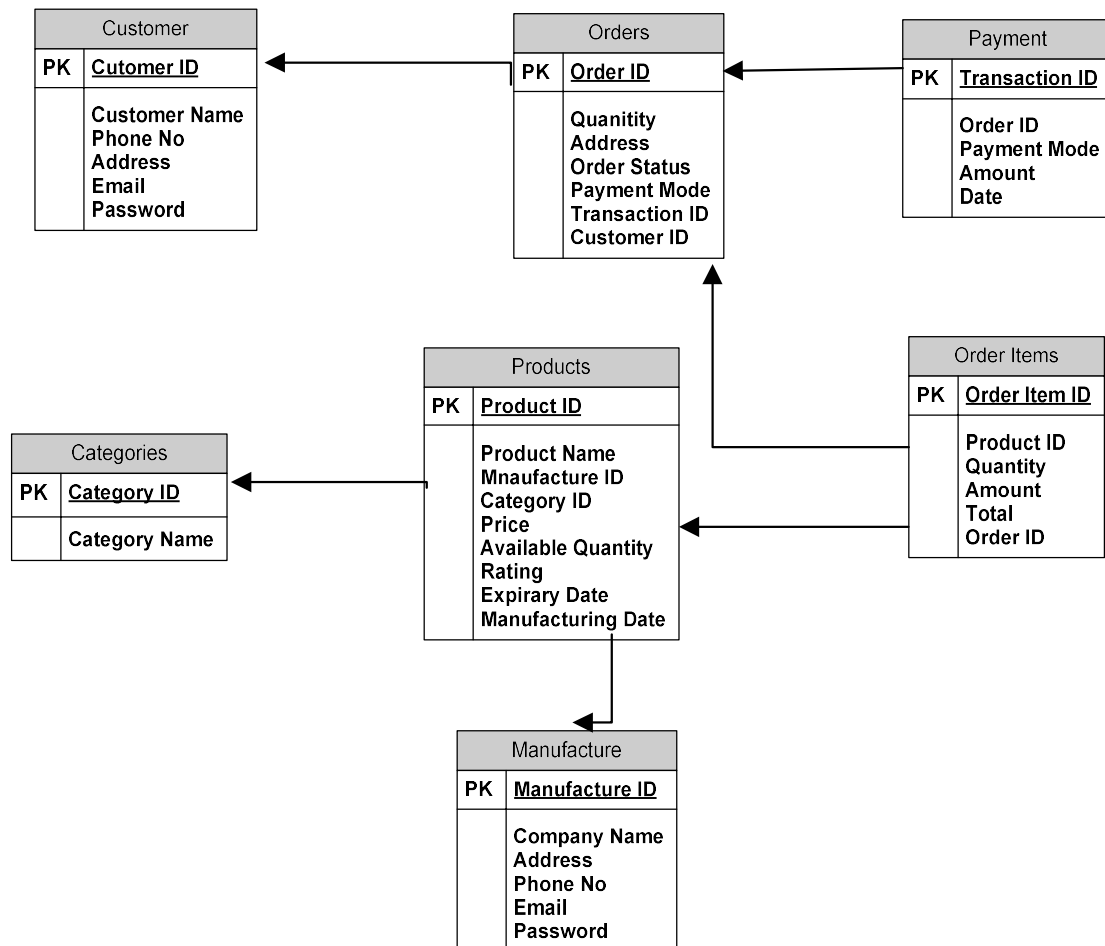
Test case 10 :

Test case ID	SG123TS010	Test Case Name	Search Query
Project ID	SG123	Project name	Online product booking.
PM ID	007	PM Name	Mr. Vandanam
Test Strategy ID	SG123TS010	Tester ID	001 & 009
Test Plan ID	SG123TP010	Tester Name	Jason and Alekya
Test Schedule ID	SG123TS010	Date of Test	28/06/2025
Scenario	View Discounted Products		
Link to that page			
	Set 1	Set 2	Set 3

Input Data	1.Pesticides 2.28/06/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Fertilizers 2.28/06/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment	1.Seeds 2.28/06/202 5 3.Branded 4.High Quality 5.500 gm 6.UPI/Card Payment
Expected Behavior	13 Product Details come for above data	13 Product Details come for above data	13 Product Details come for above data
Actual Behavior	13 Products are displayed	13 Products are displayed	13 Products are displayed
Comment	Matching the requirements	Matching the requirements	Matching the requirements
Result Pass/Fail	Pass	Pass	Pass

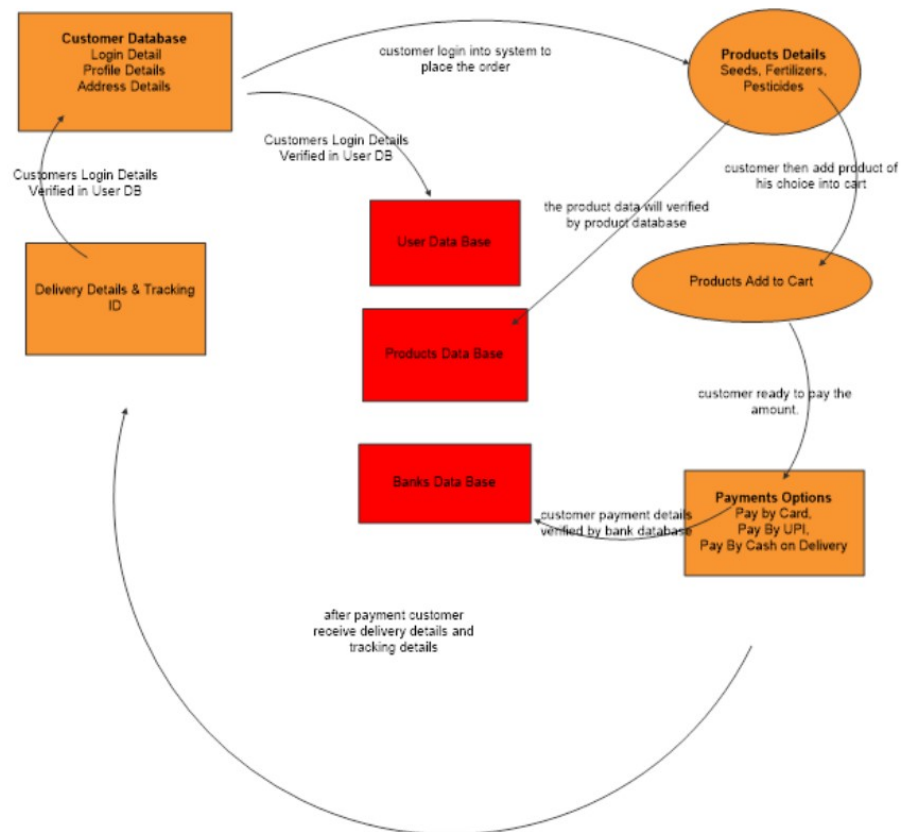
Question 6 - Database Design

Answer- Database Design



Question 7- Data Flow Design

Answer - Data Flow Design



Question 8 - Change Request

Answer - How to handle change request

- Document the Change Request – Change in Government Taxation Structure.
- Take Approval from Project Manager or Change Manager for analyzing the change request.
- Analyse the Change Request – Perform Feasibility Study to accept the change.
- Impact analysis to measure the change i.e., how the change in government taxation structure would in scope or out scope the budget of ongoing project and how it will affect the company finances.
- Effort Estimation to implement the change in project.
- Then we will help the stakeholders to understand the impact the change request will have on the organization and to help minimize the negative impact that results from that change.

- Articulate a realistic vision of how the Change in Government Taxation Structure would help in CSR Activities or help the company save money from reduced taxes.
- Communicate a state of urgency to stakeholders and bring them to an agreement and avoid conflicts which could delay the project.

Question 9 – Change Request vs an Enhancement

Answer – In this Case adding crop yields and selling them and auction system for crop yields to the application is an enhancement as it involves adding new features to the system.

As a Business Analyst we would document the requirements, and work with the development team to determine the feasibility and impact of the new features. We would also consider the potential benefits, risks and costs associated with the enhancement before making any recommendation to the client.

Question 10 – Estimations

Answer - Man-hour estimations:

-500-1000 Man-hours as this is a medium project.

- PM: -150 MH
- BA-150 MH
- JAVA DEVELOPER-100
- MH TESTERS-80 MH
- NW ADMIN-120 MH
- DB ADMIN- 120 MH

Total Man-hour estimation: - 720 Man-hours.

Total Man-hour estimation: - 720 Man-hours.

Question 11 – UAT

Answer – User Acceptance Testing Process

- Planning – In this state, Blueprints are made to implement UAT for every feature that needs to test and minimum standards for accepting the test.
- Designing – Here the Test Cases are designed to hide all the possibilities of software packages in a real-world environment.
- UAT Testers – A Testing Team consisting of end users that meet the criteria for implementing testing. The End Users must have expertise in subject matter, the ability to report the problem.
- Bug Fixing – Whatever Bugs are found in UAT Testing, the development team should work on them and make the software error free.
- Sign Off – After removing all the bugs, the testing team indicates acceptance of the completion of the bugs. In this Phase, all the stakeholders conclude that the software is ready to go live and sign it off.

Question 12 – Project Closure Documents

Answer – Project Closure Documents The BA should keep the following into consideration during project closure: -

- Did the project achieve its goal.
- What were the planned and actual cost.
- What was the estimated time vs actual time taken to complete the project.
- Was there proper documentation and record of the same.
- Was the testing successful.
- Was the training session conducted successfully