

Nurturing Process - Capstone Project1 – Part -3/3

Question 1 – Functional Requirements: Identify minimum 20 functional requirements?

Example : Functional requirement: When an order is fulfilled, the local printer shall print a packing slip. Non-Functional Requirement: Packing slips shall be printed on both sides of 4"x 6" white paper, the standard size for packing slips used by local printers.

Req ID	Req Name	Req. Description	Priority
FR001	User Registration & login	Allow farmer to create an account and register in the application	10
FR002	Product Catalogue	System should display all the products available on website	10
FR003	Add to Cart	System should allow to customer to add to cart the products	8
FR004	Payment Processing	System should allow to user to make the payment	8
FR005	Order management	All the user should be able to view their order history & track their respective order	8
FR006	Search	Customer should be able to view the products search	7
FR007	Product review & ratings	system should allow customers to leave their comment for the product what they have purchased to help others to make informed	8
FR008	Wishlist	Allow customers to save products in which they are interested to buy	8
FR009	Shipping & Delivery	Provide customers with shipping options and estimated decisions	8
FR010	Return & Refund policy	System should allow the customer to opt for R&R policy if they want to exchange or return	7
FR011	Manufacturer login	Allow manufacture to create an account and register in the application	7
FR012	Display the product catalog	System should allow to mfg. to upload their products in application	7
FR013	view the products	System should allow to view the products which mfg. has uploaded	7
FR014	Mfg. view the order	System should allow mfg. to view his order history which customer makes the order	7
FR015	Payment confirmation	System should allow to send a payment confirmation to the mfg.	7
FR016	Shipping & Delivery	system should allow to view the order delivery which customer has placed	7

Question 2–Minimum 5 page designs:

Make wireframe and prototypes?

ANSWER:





Question 3 – Tools (Visio, Balsamiq) –

Make a note of the Tools, which you are using for above concepts.

ANSWER:

Visio: MS Visio is a diagramming and vector graphics application used to create diagram, flowcharts and other visual representation of complex information.

Balsamiq: It's rapid wireframe tool to use to create a mock up and prototypes of user interfaces. Through this diagram user can see how the system will look like.

Question 4 – RTM:

A business analyst's key responsibilities are to keep track of the requirements and make sure that no requirement is missed.

Mr. Henry and peter have approached you regarding the current status of the project. How will you tackle this situation?

ANSWER:

Sr. No .	Requirement ID	Description	Requirement Category	Design	Code	Unit Testing	Component Testing	System Testing
1	FR001	Search	Allow farmers to search for available products in fertilizers, seeds, pesticides	(1) ABCD1234.DOCX (2) Search Products (3) 04,10,25	(1)ABCD1234.DOCX (2)Search Products (3) 08,12,40 (4)//ABCD1234/Code (5)PMO009587 (6)16Aug2023	(1)ABCD1234.DOCX (2)Search Products (3) 08,12,40 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)16Aug2023	(1)ABCD1234.DOCX (2)Search Products (3) 08,12,40 (4)//ABCD1234/Component Testing (5)PMO009587 (6)16Aug2023	(1)ABCD1234.DOCX (2)Search Products (3) 08,12,40 (4)//ABCD1234/System Testing (5)PMO009587 (6)16Aug2023

				(4) /ABCD12 34/Design	(1)ABCD12 34.DOCX (2)Upload & Display products (3) 05,13,41 (4)//ABCD1 234/Code (5)PMO009 587 (6)16Aug2 023	(1)ABCD12 34.DOCX (2)Upload & Display products (3) 05,13,41 (4)//ABCD 1234/Unit Testing (5)PMO00 9587 (6)16Aug2 023	(1)ABCD123 4.DOCX (2)Upload & Display products (3) 05,13,41 (4)//ABCD12 34/Com ponent Testing (5)PMO0095 87 (6)16Aug202 3	(1)ABCD1 234.DOC X (2)Uploa d & Display products (3) 05,13,41 (4)//ABC D1234/S yst em Testing (5)PMO0 09587 (6)16Aug 2023
				(5) PMO009 587 (6)05Aug 2023	(1)ABCD12 34.DOCX (2)Browse Product Catalouge (3) 01,15,43 (4)//ABCD1 234/Code (5)PMO009 587 (6)08Aug2 023	(1)ABCD12 34.DOCX (2)Browse Product Catalouge (3) 01,15,43 (4)//ABCD 1234/Unit Testing (5)PMO009 587 (6)08Aug2 023	(1)ABCD123 4.DOCX (2)Browse Product Catalouge (3) 01,15,43 (4)//ABCD12 34/Com ponent Testing (5)PMO0095 87 (6)08Aug202 3	(1)ABCD1 234.DOC X (2)Brows e Product Cataloug e (3) 01,15,43 (4)//ABC D1234/S yst em Testing (5)PMO0 09587 (6)08Aug 2023

2	FR002	Upload & Display	Allow manufacturers to upload and display their products in the application	(1)ABCD1234.DOCX (2)Upload & Display products (3)05,13,41 (4)//ABCD1234/Design (5)PMO009587 (6)10Aug2023	(1)ABCD1234.DOCX (2)Create Account, Login Application (3)03,16,42 (4)//ABCD1234/Code (5)PMO009587 (6)08Aug2023	(1)ABCD1234.DOCX (2)Create Account, Login Application (3)03,16,42 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)08Aug2023	(1)ABCD1234.DOCX (2)Create Account, Login Application (3)03,16,42 (4)//ABCD1234/Component Testing (5)PMO009587 (6)09Aug2023	(1)ABCD1234.DOCX (2)Create Account, Login Application (3)03,16,42 (4)//ABCD1234/Syst em Testing (5)PMO009587 (6)09Aug2023
3	FR003	Browse	Allow farmers to browse through products catalogue - fertilizers, seeds, pesticides	(1)ABCD1234.DOCX (2)Browse Product Catalogue (3)01,15,43 (4)//ABCD1234/Design (5)PMO009587 (6)15Aug2023	(1)ABCD1234.DOCX (2)Create Account, Login Application (3)04,11,44 (4)//ABCD1234/Code (5)PMO009587 (6)15Aug2023	(1)ABCD1234.DOCX (2)Create Account, Login Application (3)04,11,44 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)15Aug2023	(1)ABCD1234.DOCX (2)Create Account, Login Application (3)04,11,44 (4)//ABCD1234/Component Testing (5)PMO009587 (6)15Aug2023	(1)ABCD1234.DOCX (2)Create Account, Login Application (3)04,11,44 (4)//ABCD1234/Syst em Testing (5)PMO009587 (6)15Aug2023

4	FR004	Login	Allow farmers to create an account & login the application	(1)ABCD1234.DOCX (2)Create Account, Login Application (3) 03,16,42 (4)//ABCD1234/Design (5)PMO009587 (6)15Aug2023	(1)ABCD1234.DOCX (2)User Registration & Login Customer (3) 12,16,44 (4)//ABCD1234/Code (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)User Registration & Login Customer (3) 12,16,44 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)User Registration & Login Customer (3) 12,16,44 (4)//ABCD1234/Component Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)User Registration & Login Customer (3) 12,16,44 (4)//ABCD1234/System Testing(5)PMO009587 (6)14Aug2023
5	FR005	Login	Allow Manufacturer to create an account & login the application	(1)ABCD1234.DOCX (2)Create Account, Login Application (3) 04,11,44 (4)//ABCD1234/Design (5)PMO009587 (6)15Aug2023	(1)ABCD1234.DOCX (2)Buy Later (3) 12,16,44 (4)//ABCD1234/Code (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Buy Later (3) 12,16,44 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Buy Later (3) 12,16,44 (4)//ABCD1234/Component Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Buy Later (3) 12,16,44 (4)//ABCD1234/System Testing(5)PMO009587 (6)14Aug2023

6	FR006	Registration	Allow new user can create a new a/c by using email & mobile number	(1)ABCD1234.DOCX (2)User Registration & Login Customer (3) 2,17,45 (4)//ABCD1234/Design (5)PMO009587 (6)15Aug2023	(1)ABCD1234.DOCX (2)Add To Cart (3) 6,18,47 (4)//ABCD1234/Code (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Add To Cart (3) 6,18,47 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Add To Cart (3) 6,18,47 (4)//ABCD1234/Component Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Add To Cart (3) 6,18,47 (4)//ABCD1234/System Testing(5)PMO009587 (6)14Aug2023
7	FR007	Buy Later	Allow Farmers to save products in "Buy Later" option (wishlist-option)	(1)ABCD1234.DOCX (2)Buy Later (3) 12,16,44 (4)//ABCD1234/Design (5)PMO009587 (6)15Aug2023	(1)ABCD1234.DOCX (2)Make Payment (3) 7,19,49 (4)//ABCD1234/Code (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Make Payment (3) 7,19,49 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Make Payment (3) 7,19,49 (4)//ABCD1234/Component Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Make Payment (3) 7,19,49 (4)//ABCD1234/System Testing(5)PMO009587 (6)14Aug2023

8	FR008	Add to cart	Allow farmers should be able to add items to add to cart	(1)ABCD1234.DOCX (2)Add To Cart (3)6,18,47 (4)//ABCD1234/Design (5)PMO009587 (6)15Aug2023	(1)ABCD1234.DOCX (2)Track Delivery (3)11,20,46 (4)//ABCD1234/Code (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Track Delivery (3)11,20,46 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Track Delivery (3)11,20,46 (4)//ABCD1234/Component Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Track Delivery (3)11,20,46 (4)//ABCD1234/Component Testing (5)PMO009587 (6)14Aug2023
9	FR009	Payment Processing	Allow farmers to-use payment gateway which include Cash-on-delivery(COD), Credit/Debit card & UPI option	(1)ABCD1234.DOCX (2)Make Payment (3)7,19,49 (4)//ABCD1234/Design (5)PMO009587 (6)15Aug2023	(1)ABCD1234.DOCX (2)Add Multiple Products to Cart (3)21,9,39 (4)//ABCD1234/Code (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Add Multiple Products to Cart (3)21,9,39 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Add Multiple products to cart (3)21,9,39 (4)//ABCD1234/Component Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Add Multiple Products To Cart (3)21,9,39 (4)//ABCD1234/Component Testing (5)PMO009587 (6)14Aug2023

10	FR0010	Track Delivery	Allow farmers to track delivery	(1)ABCD1234.DOCX (2)Track Delivery (3)11,20,46 (4)//ABCD1234/Design (5)PMO009587 (6)16Aug2023	(1)ABCD1234.DOCX (2)Cancel Complete Order (3)22,8,38 (4)//ABCD1234/Code (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Cancel Complete Order (3)22,8,38 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Cancel complete Order (3)22,8,38 (4)//ABCD1234/Component Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Cancel Complete order (3)22,8,38 (4)//ABCD1234/System Testing(5)PMO009587 (6)14Aug2023
11	FR0011	Add multiple products to cart	Allow farmers to add multiple products to cart	(1)ABCD1234.DOCX (2)Add Multiple Products to Cart (3)21,9,39 (4)//ABCD1234/Design (5)PMO009587 (6)17Aug2023	(1)ABCD1234.DOCX (2)Cancel Partial Order (3)23,7,37 (4)//ABCD1234/Code (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Cancel Partial Order (3)23,7,37 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Cancel partial Order (3)23,7,37 (4)//ABCD1234/Component Testing (5)PMO009587 (6)14Aug2023	(1)ABCD1234.DOCX (2)Cancel Partial order (3)23,7,37 (4)//ABCD1234/System Testing(5)PMO009587 (6)14Aug2023

12	FR0012	Cancel Complete Order	Allow farmers to Cancel the complete order	(1)ABCD1234.DOCX (2)Cancel Complete Order (3) 22,8,38 (4)//ABCD1234/Design (5)PMO009587 (6)18Aug2023	(1)ABCD1234.DOCX (2)Cancel Partial Order (3) 23,7,37 (4)//ABCD1234/Code (5)PMO009587 (6)18Aug2023	(1)ABCD1234.DOCX (2)Cancel Partial Order (3) 23,7,37 (4)//ABCD1234/Unit Testing (5)PMO009587 (6)18Aug2023	(1)ABCD1234.DOCX (2)Cancel partial Order (3) 23,7,37 (4)//ABCD1234/Component Testing (5)PMO009587 (6)18Aug2023	(1)ABCD1234.DOCX (2)Cancel Partial order (3)23,7,37 (4)//ABCD1234/System Testing(5)PMO009587 (6)18Aug2023
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Whatever command we give to the application whether they are giving the command is correct or incorrect, it's like testing

Tester will give the comment while preparing the case documents that particular command is pass or fail, that is motto to write the test case documents

Example: Entering the password, whether it's right or wrong.

Question 37 – 10 Test Case Documents

ANSWER:

Test Case ID	TC_Login_01	Test case Name	TC_Login-01
Project ID		Project Name	Farmer App
PM ID		PM Name	Mr. Vandanam
Test strategy ID		Tester ID	
Test plan ID		Tester Name	Mr Jason and Ms Alekya
Test schedule ID		Date of Test	
Scenario	Verify the login of the Application		
Input data	<Valid email id> <Valid Password>	<Valid email id> <Invalid Password>	<Invalid email id> <Valid Password>
Expected behavior	Successful login	A message "the email & password You, " Please verify the password or eml	A message "the email & password You entered don't match "is shown

Actual behavior	Successful login	A message “the email & password You entered don’t match “is shown	A message “the email & password You entered don’t match “is shown
Result (pass/fail)	Pass	Pass	Pass

Test Case ID	TC_Search_01	Test case Name	Search Option
Project ID		Project Name	Farmer App
PM ID		PM Name	Mr. Vandanam
Test strategy ID		Tester ID	
Test plan ID		Tester Name	Mr Jason and Ms Alekya
Test schedule ID		Date of Test	
scenario	Search for Good product	Search for empty Search	Search for wrong Product
Test Case	This test case tests the functionality of Search in application	This test case test the functionality of Search in application	This case test the product we Know Online Agrao Store will not carry
Test data	Onion Seeds		Tata Gold
Expected behavior	System should respond back with 10 onion seeds result	System should say no result found Enter product name	System should say No match found
Actual behavior	System responded with available onion seeds	A message “the email & password You entered don’t match “is shown	No Match found
Result (pass/fail)	Pass	Pass	Pass

Test Case ID	TC_Browse_001	Test case Name	Browse Option
Project ID		Project Name	Farmer App
PM ID		PM Name	Mr. Vandanam
Test strategy ID		Tester ID	
Test plan ID		Tester Name	Mr Jason and Ms Alekya
Test schedule ID		Date of Test	
scenario	Browse for product	Browse for product	Browse for product
Test Case	This test case test the functionality of Browse in application	This test case test the functionality of Browse in application	This test case test the functionality of Browse in application
Test data	Seeds	Pesticides	Fertilizers
Expected behaviour	System should respond back with all available seeds product	System should respond back with all available Pestisedes product	System should respond back with all available Fertilizers product

Actual behavior	System responded with available seeds	System responded with available pesticides	System responded with available fertilizers
Result (pass/fail)	Pass	Pass	Pass

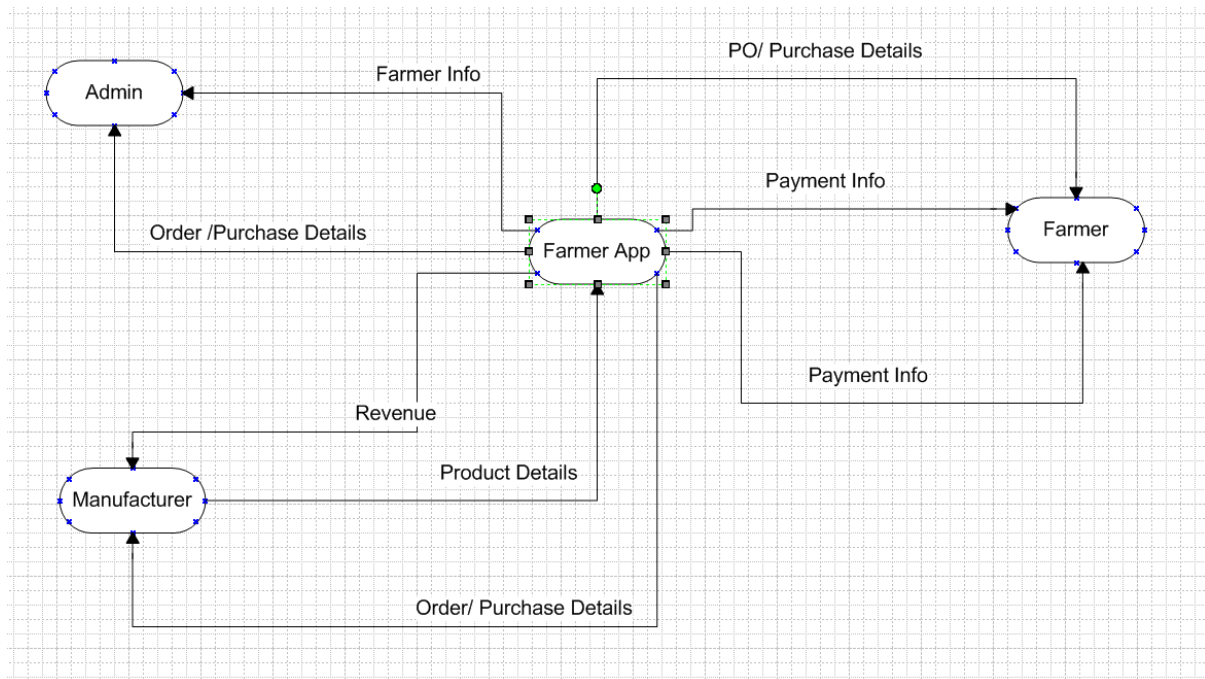
Test Case ID	TC_Add to Cart_001	Test case Name	Add to Cart
Project ID		Project Name	Farmer App
PM ID		PM Name	Mr. Vandanam
Test strategy ID		Tester ID	
Test plan ID		Tester Name	Mr Jason and Ms Alekya
Test schedule ID		Date of Test	
scenario	Add to Cart product	Add to Cart product	Browse for product
Test Case	This test case test the functionality of Add to Cart in application	This test case test the functionality of Add to Cart in application	This test case test the functionality of Add to Cart in application
Test data	Seeds	Pesticides	Fertilizers
Expected behaviour	System should respond back with another window with product image & Quantity select with price and remove option, continue shopping and check out option	No action from system	system should say no product available
Actual behavior	System should respond back with another window with product image & Quantity select with price and remove option, continue shopping and check out option	System should respond back with another window with product image & Quantity select with price and remove option, continue shopping and check out option	System should respond back with another window with product image & Quantity select with price and remove option, continue shopping and check out option
Result (pass/fail)	Pass	Pass	Pass

Test Case ID	TC_Address_0075	Test case Name	Address
Project ID		Project Name	Farmer App
PM ID		PM Name	Mr. Vandanam
Test strategy ID		Tester ID	
Test plan ID		Tester Name	Mr Jason and Ms Alekya
Test schedule ID		Date of Test	
scenario	Place order with correct address	Place order with wrong address	Place address with no address
Test Case	This test case test the functionality of Place order with correct address mentioned	This test case test the functionality of Place order with wrong address mentioned	This test case test the functionality of Place order with no address mentioned
Test data	Correct address submitted	Wrong address submitted	

Question 7 – Data Flow Diagram

What is a data flow diagram? Draw a data flow diagram to represent the in-flow and out-flow of data when a Farmer is placing an order for the product?

Answer: Its visual representation of the information of in-flow and out-flow of data when a Farmer is placing an order for the product, A data flow diagram shows how data is processed within a system based on inputs and outputs. Visual symbols are used to represent the flow of information, data sources and destinations, and where data is stored.



Question 8 – Change Request

Due to change in the Government Taxation structure. we should change the Tax structure How do you handle change requests in a project?

ANSWER:

- 1) Understand the scope of change-** This is a part of the project only the Taxation structure is changing but earlier also the Govt Tax was there included in the application. So, the change is going to impact overall pricing for the products is the concern.
- 2) Determines whether the change is inside/outside the scope -** As while calculating the pricing for the products earlier tax slab was there only the structure of the tax slab is going to change which can be done with probably soft coding part only. Hence change is inside the scope.

3) Do the analysis - This part covers 3 key elements:

Feasibility Study- This change is quite feasible & doable can be worked out with ease as only changes in existing Tax slab is the Change.

Impact Analysis- This change is going to impact overall total cost for the product hence ultimately impacted major stakeholder will be end customer (Farmer) but this should not be a concern at all as this change is from Government end so the same tax structure to be going to implement throughout the industry. The same tax farmer needs to bear if he is going to buy same product from competitor also.

Effort Estimation- Will not take large effort to be taken for this as development team can do the same with changes in Soft Coding part only & once same get tested implementation will be easy.

4) Approve or reject the change request - Stakeholders will surely going to approve the change as it is a mandatory part from Government end still as a formality change need to be approved first from client side.

5) Communicate & implement the approved change request - Once change request is approved & tested properly by development team approved change can be implemented on production server after finalizing cutoff date to make the change effective in system on priority basis.

Question 9 – Change Request Vs an Enhancement

As the project is in process, Ben and Kevin have contacted you. The reason is to inform you that they want the Farmers to sell their crop yields through this application i.e. Farmers should be able to add their crop yields or products and display to general public and should be able to sell them. They also want to introduce Auction system for their Crop yields. As a BA, what will be your response?

Is this a change request or an enhancement?

ANSWER: In order to provide access to farmers to display their crop yields or products & sell it with same platform of it

Online Agriculture Store – It will be an Enhancement from project point of view as same thing was not discussed while at the time of developing or creating the application.

Question 10 – Estimations -Come up with estimations – How many Manhours required?

ANSWER: Man, hours are required effort of the resources to complete a project. There are 3 types projects:

-Small-up to 500 hours

-Medium-up to 1000 hours

-Large-1500

-As per the case study, the duration of the project is 18 months & the current team size is around

15, this will come under medium project.

-As the trained resources are available, trainers are not required.

-As the structure of the project is available, new & enhanced infrastructure is not required.

We have 1 person for 40 hours/week

we have 15 resources = $15 * 40 / \text{week} * 18 \text{ Months}$ = up to 10800-man hours required to complete.

Question 11 – UAT –

Project has finally completed all the stages i.e., design, development, testing etc. Now, it is the role of a business analyst to contact the client for testing of the final product and have to successfully complete it. How are you going to handle this situation? And once it is done, what will be the process to close the project?

Explain UAT Acceptance process

ANSWER:

Planning: This is step called Blueprints are made to implement UAT Testing for every feature that is required and to test & 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 consist of an end user that meets the criteria for implementing testing.

And the end user must have expertise in subject matter, the ability to report the problems.

Bug Fixing: Whatever Bugs are found in the UAT Testing, the development team should work on them & make it software error free at all.

Sign Off: After removing all the bugs from the system the testing team indicates the acceptance of the completion of the bugs. In this phase, all the stakeholders come to the conclusion stating that software is good to GO LIVE & sign off.

Question 12 – Project Closure Document - Explain Project closure document?

ANSWER:

Sr. No.	Info		Details info
1	Did the client signed off on UAT Testing		Business Scope Document
	Date of Signoff	18-08-2023	
	Name of the Resource	Mr. Henry	
2	Objective of the project		RTM
	User friendliness	Achieved	
	Ease of purchasing Agri Products Online	Achieved	
	Customer Satisfaction	ROI in one year after completion of it	
	More Categories	Achieved	
3	Functionalities worked on		BRD/FRD
	Secure Payment processing	Achieved	
	Searching Product Catalogue	Achieved	
	Tracking order	Achieved	
4	Infrastructure		
	Software's Installed	Achieved	
	Laptops purchased	Achieved	
5	Funding		Finance Breakdown
	Amount Approved	2 Cr	
	Amount Used	1.70 Lacs	
6	Overall Project Information		
	Escalations	38	
	Customer Satisfaction	High	
7	Value to the company		
	Positive/Negative	Positive-95%	
		Gained edge over competition	
		Ease to place order achieved	
		Increased clients	
		Trained Employees	
		New Project in pipeline	

