**Question 1:** Quarterly Audits are planned Q1, Q2, Q3, Q4 for this Project. What is your knowledge on how these Audits will happen for a BA?

Ans: Generally Audits happen in the following format

Q1

|  |  |
| --- | --- |
| Stage | Requirements gathering phase -14 weeks (Week1 to week 14) |
| Completed | 9 weeks (week1 to week 9) |
| Checklist | BRD Template |
|  | Requirement gathering report |
|  | Duplicate requirement report |
|  | Grouping of functionalities/feature-client signoff. |
|  | Email communication-To, CC, BCC |
|  | Whatsapp approval for feature approval. |

Q2

|  |  |
| --- | --- |
| Stage | Requirements gathering phase -12 weeks (Week 15 to Week 27) |
| Completed | 6 weeks (week15 to week 21) |
| Checklist | UML Diagrams |
|  | Business to functional requirement mapping |
|  | Client Signogg documents |
|  | RTM document version control |
|  | Email communication-To, CC, BCC |
|  | Teams Meeting feature approval with MOM sign off. |

Q3

|  |  |
| --- | --- |
| Stage | Design -13 weeks (Week 28 to week41) |
| Completed | 8 weeks (week28 to week 36) |
| Checklist | Utilization of tools |
|  | Documented evidences on client communication |
|  | Stakeholder MOM |
|  | Email communication-To, CC, BCC |
|  | Jira Communication screenshots |

Q4

|  |  |
| --- | --- |
| Stage | Development -31 weeks (Week 41 to week71) |
| Completed | 21 weeks (week 41 to week 62) |
| Checklist | JAD Meeting report |
|  | End user manual preparation document |
|  | BA & developer Minutes of Meeting |
|  | Email communication-To, CC, BCC |
|  | Slack & Confluence communication screenshots. |

**Question 2 : BA Approach Strategy**

1. **What Elicitation Techniques to apply.**

**Ans**: I will use **interviews** & **JAD** sessions

If required I will conduct **brainstorming** session.

I will conduct **workshops**.

**reverse engineering** techniques to understand their current procedures.

I will also use **observability** techniques as well sometimes if required to understand the process the client is following without intervening their work.

1. **How to do Stakeholder Analysis RACI/ILS.**

Ans: By looking at the stakeholder register, process heads, I will prepare the RACI matrix, within that I will mention their communication email ids, numbers and their preferred timings to contact. So that I can understand who is responsible, accountable, consulted & informed for various approvals & intimations within the project.

1. **What Documents to Write.**

Ans: I need to write.

BRD-Business Requirement Document.

FRD-Functional Requirement Document.

SSD-Supplementary Support Document.

URD- User Requirement Document.

SRS-Software Requirement Specification.

FRS-Functional Requirement Specification.

ADD-Application Design Document

FS-Functional Specifications

1. **What process to follow to Sign off on the Documents.**

Ans: I need to fill the above-mentioned documents as per client’s requirement and the client/stakeholder need to approve it via email, or physical or manual signature on the document to proceed further.

1. **How to take Approvals from the Client.**

Ans: Approval has to be written either by signature, or email confirmation or electronic signature or a Team's message/Jira confirmation.

1. **What Communication Channels to establish and implement.**

Ans: Mostly email, teams, whatsapp, MOM recording, Jira, communication channels are preferred so that they can be produced even after a year or 2 for auditing purpose or to look for the records based on whose approval particular user story or project feature moved forward.

1. **How to Handle Change Requests.**

Ans: If the change request is under project scope and within the requirement gathering stage in the waterfall model, take the change requests with proper written or email documentation.

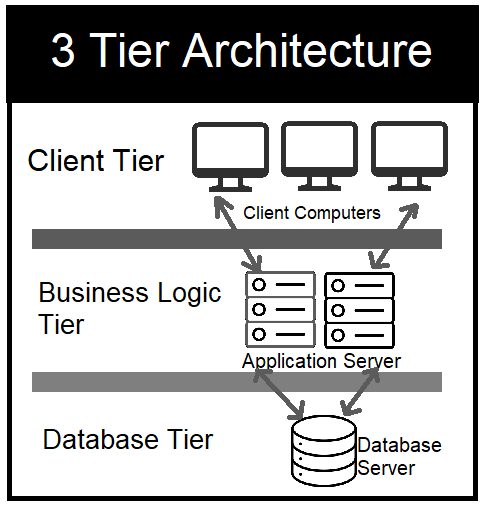
1. **How to update the progress of the project to the Stakeholders.**

Ans: By sending them timely emails/teams communication and update of the project after every milestone, as well as after finishing important phases of the project.

1. **How to take signoff on the UAT- Client Project Acceptance Form )**

Ans: By getting the manual or electronic signature of the client stakeholder as well as email, WhatsApp, Teams, Jira, Google forms, Confluence communication channels.

**Question 3. Explain and illustrate 3-tier architecture?**

****

**Question 4: BA Approach Strategy for Farming Questions**

* The SMART technique can help in creating questions.
* Sample Web page creation and then accordingly I will ask what kind of additional customizations required on top of the existing web page design in terms of color, format, bandwidth, item sizes, item dimensions, item features.
* UML or unified modelling language, is a standardized way of creating a blueprint of the software system to design, develop and communicate among he team members.

**Question 5: As a Business Analyst , what Elicitation Techniques you are aware of.**

Ans: I am aware of no. of elicitation techniques, namely

|  |  |
| --- | --- |
| Interview | JAD |
| Protoype | Brainstorming |
| Workshops | Document Analysis |
| Questionaire | Focus Groups |
| Observation | Usa case specs |

**Question 6: Which Elicitation Techniques can be used in this project and justify your selection of Elicitation Techniques**

Ans: For this project I would use the following elicitation technique.

1. **Interviews**-Because one-on-one interview helps to get direct inputs and direct communication with the stakeholder, which helps to understand the background of his requirement.
2. **JAD**- In case of conflicting requirements, this helps to collaborate with multiple stakeholders and sort out things using MOSCOW prioritization technique and finalize the requirement.
3. **Prototype-** This gives the direct feel & effect to the client/stakeholder instead of any textual communication which could be a poor form of communication.

**Question7:**

Fertilizers, seeds, pesticides details from the manufacturers and should be able to display them to the Farmers.

To gather the business requirements from the client, you went to SOONY and met Mr. Henry. When Mr. Henry was asked about the project and what are they expecting from the project, Mr. Henry stated that he is expecting to have a login for all its users (fertilizers, seeds, pesticides manufacturers and Farmers) , a product catalog of fertilizers, seeds, pesticides, a search option to search for products, payment process, and delivery tracking.

After doing the stakeholder analysis, you have found out that Peter, Kevin, Ben are the key stakeholders and you have scheduled an appointment to meet them. After meeting with them and trying to gather the stakeholder requirements, Kevin said that, a Farmer should be able to browse through the products catalog once they visit the website and need to have a search option so that they can search for any product they need. Peter said that, if a farmer wants to buy any product or add them to buy-later list, they need to login first using their email id and password. If it is a new user, then they can create a new account by submitting their email ID and creating a secure password. Ben added saying that, Farmers needs to have an easy-to-use payment gateway which should include cash-on-delivery (COD), Credit/Debit card and UPI options so that the user’s experience should be better. Kevin mentioned that, a user gets an email confirmation regarding their order status. A delivery tracker to track the whereabouts of their order.

Identify Business Requirements (which includes Stakeholder Requirements)

**-Make suitable Assumptions and identify at least 10 business requirements**

|  |  |  |
| --- | --- | --- |
| **Req ID** | **Requirement Category** | **Requirement Description** |
| BR001 | Registration | Registration of users using their email id and password |
| BR002 | Login | Login to all its users using email id and password |
| BR003 | Upload & Display | Manufacturers should be able to upload and display their products in the application |
| BR004 | Search | Farmers should be able to search for available products in fertilizers, seeds, and pesticides. |
| BR005 | Catalog | A product catalog of fertilizers and pesticides has to be created. |
| BR006 | Payment Option | The payment process & option has to be enabled. |
| BR007 | Product Browsing | Product browsing has to be enabled within the product catalog. |
| BR008 | Buy Later | Create an option of Buy Later list only for logged in users. |
| BR009 | Payment Processing | Addition of Payment Gateway which should include Credit/Debit Card, Cash on Delivery, UPI for user convenience. |
| BR009 | Status Confirmation | After a successful or failed order status users should be intimated by an email for order confirmation |
| BR009 | Track Delivery | Product Delivery tracking has to be enabled. |

**Question 8: List your 4 Assumptions**

Assumption 1: A Farmer/user can log in using Facebook or google account instead of email.

Assumption 2: A Farmer/user must be aware of how to use the pc and mobile.

Assumption 3: The manufacturers need to have good variety of products to display basing on the farmer’s demands & requirements.

Assumption 4: Farmers & buyers have bank account to pay **via credit/debit /UPI.**

**Question 9: Give Priority 1 to 10 numbers( 1 being low priority- 10 being high priority) to these requirements after discussion with the stakeholders.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Req ID** | **Requirement Category** | **Requirement Description** | **Priority** |
| BR001 | Registration | Registration of users using their email id and password | 10 |
| BR002 | Login | Login to all its users using email id and password | 10 |
| BR003 | Upload & Display | Manufacturers should be able to upload and display their products in the application | 9 |
| BR004 | Search | Farmers should be able to search for available products in fertilizers, seeds, and pesticides. | 8 |
| BR005 | Catalog | A product catalog of fertilizers and pesticides has to be created. | 7 |
| BR006 | Payment Option | The payment process & option has to be enabled. | 10 |
| BR007 | Product Browsing | Product browsing has to be enabled within the product catalog. | 6 |
| BR008 | Buy Later | Create an option of Buy Later list only for logged in users. | 5 |
| BR009 | Payment Processing | Addition of Payment Gateway which should include Credit/Debit Card, Cash on Delivery, UPI for user convenience. | 8 |
| BR009 | Status Confirmation | After a successful or failed order status users should be intimated by an email for order confirmation | 4 |
| BR009 | Track Delivery | Product Delivery tracking has to be enabled. | 3 |

**Prepare a Use Case Diagram**

Extends

Extends

**FCH**

**Database**

**Farmer**

Extends

Uses

Agriculture Online Store

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID** | **UC002** | | |
| **Use Case Name** | **Make an order of pesticide from online agriculture store** | | |
| **Created by** | **Mr. Saif** | **Last Updated** | **April 17th 2023** |
| **Date Created** | **April 16th 2025** | **Last Revision Date** | **April 17th 2025** |
| **Actor** | **Farmers, Manufacturers** | | |
| **Description** | **This use case describes how a farmer can order online from an online agriculture store.** | | |
| **Pre-condition** | **Products are uploaded and ready by the manufacturers on the portal.** | | |
| **Post -condition** | **Successfully received the fertilizer with door delivery.** | | |
| **Normal Flow of events/Basic flow/Happy Path** | **Step1: The user registers on the online store with his gmail id**  **Steps 2: He browses item catalogue & selects qty & makes an order.**  **Step3: Pay the amount via FCH or COD.**  **Step4: Tracks the status and delivery of the item & receives the item.** | | |
| **Alternative Flow** | **At Step2: If the user is not able to login, then the system will redirect to the “Forgot username/password” page.**  **At Step 3: If the user is not able to get the right product information, he can request for a call from the customer care.**  **At Step 4: If the user’s payment got declined or payment is successful but the order is failed, he can request an immediate call back from the customer care team for status and delivery status.**  **At Step 4: If the address mentioned is incorrect & realized after the order is made, he can update the address from the post order page.** | | |
| **Exceptions** | **If the internet connectivity lost while making an order, system will display” check your internet connectivity”** | | |
| **Frequency of Use** | **High** | | |

**Question 12: Create 5 Activity Diagrams for this project**

* + - 1. **Customer profile creation.**
      2. **Add to Cart.**
      3. **Payment Processing.**
      4. **Delivery.**
      5. **Cancellation.**

**Customer Profile Creation Activity Diagram**

Valid?

Create Account

“Invalid Mail ID”

Display Message

Enter Email & Password

No

Yes

**Add to Cart Activity Diagram**

Yes

Add to Cart

Product Available

Product Browsing

No

“Out of Stock”

Display Message

**Payment Activity Diagram**

Yes

Initiate Delivery

Payment Authorized?

Initiate Payment

No

“Transaction Failed”

Display Message

**Delivery Activity Diagram**

No

Yes

Deliver Order

Order Delivered?

Receive Order

Start

Delivery

**Order Cancellation Activity Diagram**

Valid Login?

Cancel order

Login & click on cancel order button

Yes

No

“Authentication Failed”

Display Message