Question 1) 4 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 - So basically audit is a review of something usually financial records, to make sure everything is accurate and it also verify that it is following some rules or not. So only for cross checking the work of the project company or the product audits are being introduced.

Q1 audit :- In this phase of audit we are seeing everything about the requirement gathering how we are gathering the requirement are we using some good method are not also it verifies the work which is are already being done in the requirement phase in first audit we are crosschecking that gathered information are good or not, also we are doing the evaluation of the requirement. We are identifying the need of the client what is the demand of the client as per the demand of the client we are asking some question using some elicitation technique so that how the audit is conducted for the requirement gathering phase.

* While doing quarterly audit we are knowing the objective and goal of the project.
* We are crosschecking that we are on the right tract or not.
* Requirement elicitation technique is used for gathering the requirement.
* Some of the methods are verified like 5w 1h , SMART

Q2 : For Requirement analysis phase :- while doing audit for the requirement analysis we are knowing and identifying the each and every aspect of the like whatever requirement we have gathered are correct or not also we are taking help from the subject matter experts. Requirement we have gathering from the client we are just crosschecking these thing with the help of SME and also we are doing interaction with client for the better understating about the project. Also in the audit we are checking whatever the requirement client has given to us we are fulfilling or not. So the cumulative study of all these thing which is being done by the audit .

* In this phase requirement analysis phase all information is verified for the project improvement.
* If the BA is not able to understand the requirement then all requirement are checked with the SME.
* In the audit of requirement analysis phase we are also checking the we are meeting the customer objective or not.
* The main agenda of the audit is to review the work for the better understating of the project.
* It gives the clarification about the all kind of requirement for the development purpose.
* In this phase requirement evaluation is being done by the team.

Q3 : For Designing phase :- after the completion of requirement gathering and after the completion of the requirement analysis phase is there in this phase we are developing the design for the good product as per the client need whatever the requirement client has given to us on the basis of that we are building the product and for the cross checking the things about the design audit it is being conducted. So by doing audit for the design we get to know the information about the function , features and the overview of the future product.

* Quarterly audit is being done for the assessing the work and the progress of the project.
* We can get the better clarity of the project that we are on the right track or not.
* While doing audit if there are some mistake , then development of the these will be there.
* While doing work on the product it gives the clarity that where the product is stating and on the basis of that steps are taken.
* As on above case study as per the client requirement we are building the software for the online agriculture store.
* We are keeping all the things in our mind while doing the audit for the product that all demand of the client are fulfill or not

Q4 : This quarterly audit is on the development phase :- as we all know that in above case study the one person want to build the online agriculture store. To solve the problem of farmer which problem they were facing while doing farming in the journey . so the main problem was they were not able to get the proper seeds, fertilizer and pesticides so for them he wanted to build one online platform so that can get the required product. So while doing audit for the project in the phase of development they are checking the all the required thing like requirement , design , then development phase is there so main objective for conducting the audit is to review and do the examination of the work through audit.

* While doing audit these things are checked.
* Requirement of the project
* Analysis of the requirement
* Customer satisfaction
* Observation on the subtle point
* Customer needs , objective of the customer
* In the phase of development audit overview of the development team is being verified for the understating about the project.
* Work is completing as per the rules or not or there are some bug in the system all thing are checked in the audit .

So basically audit is a study of the work and by doing audit we can know so many thing about the project that the project is on the right tract or not , project is going as per the customer demand or not all these parameters are checked so there fore audit is a mandatory part for the project therefore quarterly audit are conducted.

Q2 ) BA Approach strategy ?

ANS- In the role of the business analyst we are doing so many thing so basically we can say that the BA is the face of product , is responsible for requirement gathering then, analysis of the requirement , making document like BRD, FRD, SRS and so on. While doing the work at several stages BA is following some technique for getting all these thing done . Ex :- brainstorming , reverse engieneing , focus groups, observation. These are the some strategy are the which are being used by the BA.

Elicitation Technique :- This technique is used by the BA for gathering the requirement not a single technique but there are so many are there like observation, focus group , reverse engineering .

Stakeholder Analysis :- This is a another technique of BA Which is commonly used for knowing about the stakeholder which are involved into the product also which stakeholder are responsible, Accountable, Consulted, and informed so RACI Matrix or the stakeholder analysis is done by with the help of the BA strategy .

Documentation :- While doing work as BA there are so many documents are prepared by the BA documents like BRD, FRD, SRS these also comes under the BA Strategy approach

What Process to follow to the sign off the Document : - For taking sign off on the document SRS is playing a vital role in on the SRS document Sign off is taken apart from that sign off can taken with the help of email conformation from the client . so that’s how the sign off is taken on SRS.

How to take Approval from the client :- in the phase we are conducting meeting with the client and we are informing to the client about the work and progress along with that we are taking feedback from the client.

What communication channel to establish implement :- Regular meeting , weekly meeting , spring planning, sprint review , and stakeholder analysis these are the communication channel are there .

How to handle the change request :- while handling the change request we have form for that also we are doing the impact analysis of the change which things can get affect by it we are crosschecking these point under this. Then approval process and the finally documentation is there .

Q 3 ) 3- Tier Architecture ?

ANS- in the development of the software there are product is divided into the 3 layer like presentation layer, application layer, and the final is data layer it gives the step by step information about the project how the project is going to be and also at each layer the work it is different.

Presentation layer :- in the presentation layer where the presentation of the system it is involved into it and also it show the data as input and gives the output to the user in the presentation layer webpages, homepages are comes under these presentation layer .

Application layer :- so basically application layer called as logical layer also it called as brain of the system . in the application layer it handles the data and same time gives the out put for the system. Also this application layer act as mediator between the presentation layer and the data layer. This application contains the main and core logic of the system.

Data Layer :- as we all know the with the name of the data layer is the layer we are using for the saving the data or retrieving the data from the system for that purpose data layer is there we have some of the example of it like oracle , my SQL these are the some example of the data layer where the data is stored.

Q4 ) BA Approach strategy for framing questions.?

ANS – IN the BA approach strategy there are so many techniques are being used for the product development by the Business analyst like 5W and 1H this is the first technique which is used by the BA and there are so many.

* 5W And 1H :- IN this technique while doing work as BA there are some question are asked to the client for knowing more about the requirement of the system or by using the question in this format we can get the better view of the project while asking question in 5w – why, when, where, what, who and How in this format questions are asked to the client for the better understating about the requirement so this is the one technique which is used in BA strategy approach for framing the questions.
* SMART :- This is the another technique which is commonly used in the BA approach for the getting the appropriate information from the client about the system and about the requirement .

Smart stands for specific, measurable, attainable , relevant , and time bound so basically while asking the question this things are used in BA approach so that they can get the right information for the better development of the project.

RACI :- This is also the important approach of the BA where by using this approach they can get information about the respective stakeholder and about their roles and responsibilities for that purpose RACI is conducted in the BA approach strategy . in the RACI stands for the Responsible, accountable, consulted, and informed.

Q5) Elicitation Techniques ?

ANS- the main purpose of the requirement elicitation is to the gather the requirement form the respective stakeholder as per their need and also in the elicitation techniques is used for the defining the system requirement and the business requirement thorough the several techniques all these techniques are used by the business analyst.

Interviews :- by doing the one to one discussion with the stakeholders they can understand the business need or the system as per the client or stakeholder expectation . this method provides the genuine insight about the system and about the project .

Questionnaires :- IN this elicitation techniques written digital forms set to stakeholders to gather data on their preferences experiences and needs . this methods is useful for the appropriate data from the stakeholders . the form is in the digital structure so that can be sent to the large amount of stakeholders.

Workshops :- In the workshops there are some respective stakeholder are there who are sitting together for the development of the project or for solving the problem of the client. In the workshop stakeholder they gather and they do discussion on the requirement .

Observation :- IN this elicitation techniques analyst observe user in their natural work environment understand the task , challenges, workflows they follow.

Document analysis :- In the document analysis there is a study of the existing document such as the business plan, report, policies, process and system requirement are discussed in the document analysis. This document analysis helps in knowing the previous history of the system

 on the basis of their document.

Prototyping :- SO basically prototyping is the basic version of the system as per the client need , this version is build for the better understating about the client that client requirement are matching or not with the system for verifying these thing prototype is build. Also for taking feed back.

Brainstorming :- In the brainstorming there are number of people are there in the brainstorming for thinking and providing the creativity , innovation for the product. Brainstorming is done for the solution of the system in the short period of time . after doing the discussion on the topics there various result can occurs which helps for the development.

Focus group :- in the focus group generally there are group of people show does discussion on the product and in the qualitative insights from multiple perspective. It gives the essential input. And insight as well.

JAD :- IN the JAD session there are respective stakeholder are involved in to it like developers, business user are involved in the JAD session . the main objective of the JAD session is to know the system requirement in the collaborative manner. In the JAD session both the business team and the developer team is doing work together for understating the requirement .

Interview :- This is also the important elicitation techniques of the business in this the both parties are sitting at one place or they can connect through the online platform the can ask some question to each other about the system or about the requirement also they can get feed form the user . in the intervies there are several question are asked to the stakeholder about the product so basically these are the which involved in to the interview.

Q 6 ) Which Elicitation techniques can be used in this project and justify your selection of Elicitation techniques ?

ANS :- For this project I will choose the document analysis for this project because document analysis is the critical technique used by business analyst to gather information and insight from existing document and records . it involves reviewing and analyzing any availsbale documentation that may provide useful information about the current processes, system policies, or requirement . this can help in identifying gaps, inconsistencies, or opportunities for improvement and is often one of the first step in understanding the business context of a project.

* Key elements of document analysis :- Business analyst review existing materials such as , business plan, process maps, system specifications, user manual , reports, email.
* With the help of document analysis business analyst get the relevant information from the client or from their document.
* With the help of document analysis we can get the system specification.
* Already in the previous document there are so many existing rules which can help the business analyst for knowing all the important .
* With the help of document analysis we can get the proper information about the previous work and the loopholes which exist in the current system.
* Also we can know the obstacle , challenges, which can be easily identified by the document analsis.
* With the help of document analysis we can identify the gap between current state and the future state.

Also the document analysis is important for knowing the previous history of the product and give the direct and appropriate information about the business need, goal objective and the system requirement so there for document analysis is good for this project.

Q7 ) 10 Business requirement ?

* BR001 :- There should be the login for all user.
* BR002 :- In the application there should be the product catalogue for the product like, fertilizers, pesticides, seeds.
* BR003 :- There must be the Product search option for particular product so that the user can search for that.
* BR004 :- For the payment process there should be the tow option like Cod and Online payment.
* BR005 :- In the application there should be the location option for the delivery tracking so that can understand better the where the process or the delivery partner is.
* BR006 :- Farmer should be able to browse through the product catalogue .
* BR007 :- Login purpose they must have the login ID And password.
* BR008 :- Farmer should have and easy to use payment gateway which should include cash-on-delivery, credit/debit card and UPI option should be there so that the user experience can get better.
* BR009 :- After the order there must be the email for the order conformation.
* BR010 :- There should be the tracker for tracking the order so that we can get the information about their order.

Question 8 ) Assumption ?

ANS :-

* A user can login with the email ID .
* A user has knowledge about the English language .
* Online shopping trend is increasing . The customer are preferring online shopping.
* Each customer have the own account login for purchasing or for buying the product.
* If the payment failed then customer can get another chance for doing payment , in same way can get refund if the access of payment is there.
* Some times customer can get the wrong product in that case customer can send product back to the company.

Q 9 ) Project requirement priority ?

AN S :-

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| --- | --- | --- | --- |
| **REQ ID**  | **REQ Name**  | **Req Description**  | **Priority Point**  |
| BR001 | Login credential  | There should be the ID and password for login  | 7 |
| BR002 | Product catalogue  | There should be the product catalogue for the searching the product  | 4 |
| BR003 | Payment | Several payment method should be their like online , cod, card, UPI | 8 |
| BR004 | Product search  | Farmer can search the product on the application as per their need | 3 |
| BR005 | Delivery tracking  | There should be the option for the tracking of the delivery so that the buyer can get the location as well as tracking. | 5 |

Q 10 ) Use case diagram ?

ANS :- Use case diagram is the the blueprint of the system that whatever requirement are gathered so these things we are implementing in to the use case diagram for knowing the system requirement basically use case diagram it interact with the system and actor so it is all about that , while drawing the use case diagram there are so many actors are involve in to it primary actor, secondary, actors also the admin or server is there in the use case diagram.



Q 11 ) USE case spec ?

ANS :-

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| --- | --- |
| USE Case  | Online agriculture store  |
|  Actors  | User, and vendor  |
| Description  | By using this online agriculture store the buyer can buy the product like, seeds, fertilizer, pestisides. |

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| Use case step specification |

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| --- | --- | --- |
| General  | Actor / system communication  | System response  |
| User will login with the ID and password  | Actor will login with the login credential  | If the login id and password is correct then next step will be there. |
|  | User can search for the product  | System will show the product  |
|  | User have to option like add a product and cancel a product  | System will show some variety of the product to the buyer on the application . |
|  | User can place the order  | System takes the data from the buyer for the delivery of the product . |
|  | Payment  | System will show some option for the payment process with the different mode like UPI, Card, cash these option will be present there. |
|  | Delivery  | Delivery boy will go to the location which is given in the order ID there the delivery boy can go and do the delivery of the product after the delivery the receiver will get OTP after the completion of delivery . |

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| Alternative steps specification |

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| --- | --- | --- |
|  | IF there are more product then buyer can search directly for that specific product. |  |
|  | If the entered product is mismatched then there will be the error  | If the login credential are wrong then there will be the error for the particular thing. |
|  | IF there is a insufficient balance  | then error will be there. |

2)

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| --- | --- |
| USE case Title  | Application for online agriculture store  |
| ID | UC-001 |
| Actor  | Customer, Online agriculture store  |
| Description :- This is use case describes how customer can purchase product s from the online agriculture store. |
| Precondition :* Customer must have an account and be logged in .
* Customer has selected product to purchase.
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| Postcondition : * Order is placed successfully and customer receives an order confirmation.
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* Inventory is updated.

 Flow of Events :

* Customer browses the online agriculture store to select products ( seeds, fertilizers, and other product ).
* Customer add selected product to their shopping cart.
* Customer proceeds to checkout.
* Customer provides the delivery information .
* Customer confirms the order
* The system process the payment and updates the inventory
* The customer receives an order confirmation message with estimated delivery details.

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| Alternative flows :- if the payment method is invalid or the payment is declined, the system notifies the customer and requests them to enter valid payment information. |

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| Exception Flow :- IF a product selected by the customer is out of stock, the system alerts the customer and suggests alternatives, or they can opt to be notified when the product is back in stock. |

Special Requirement :-

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| * The store should support multiple payment option Like credit card, Paypal, UPI ) etc.
* The system should be able to process orders in multiple currencies if the store is global.

Assumption :- The customer has internet access and is able to browse and shop online. |

3 ) Use case specification document

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| --- | --- |
| Use case title  | Online agriculture store  |
| ID  | 1001 |
| Actor  | Customer , online agriculture store  |

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| --- |
| Description :- This use case describes how a customer products form the online agriculture store. |

Preconditions :-

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| --- |
| * Customer must have an account and be logged in.
 |
| * Customer has selected products to purchase.
 |

Postconditions :-

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| --- |
| * Order is placed successfully , and customer receives an order confirmation .
* Inventory is updated.
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Flow of events :-

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| --- |
| * Basic Flows :-
* Customer browses the online agriculture store to select product seeds, fertilizer tools .
* Customer add selected products to their shopping cart.
* Customer provides shipping information .
* Customer confirms the order.
* The system process the payment and upadates the inventory.
* The customer receives an order confirmation message with estimated delivery details.
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| Alternative Flows :- if the payment method is invalid or the payment is declined, the system notifies the customer and requests them to enter valid payment information. |

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| Exception flow : - IF a product selected by the customer is out of stock, the system alters thecustomer and suggests and alternative , or they can opt to be notified when the product is avaialbe. |

Special Requirement :-

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| --- |
| * The store should support multiple payment options ( credit card, Paypal).

The system should be able to process orders in multiple currencies if the store is global. |

Question 12 ) Activity Diagram ?

ANS-

1. Activity diagram for ATM?

2) Activity diagram for Online Agriculture store

ANS :-

