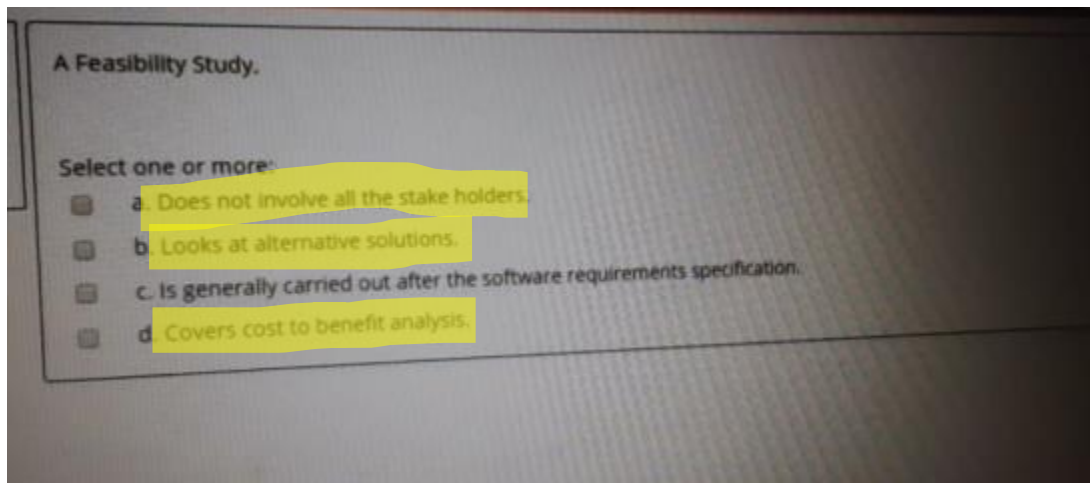
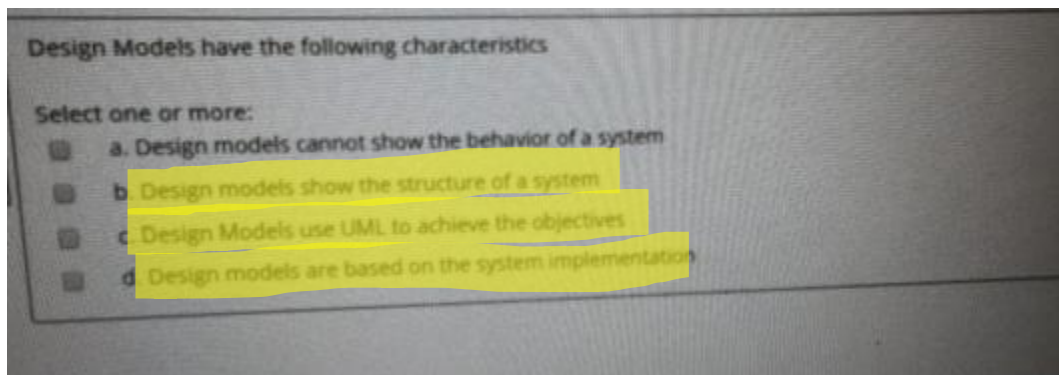


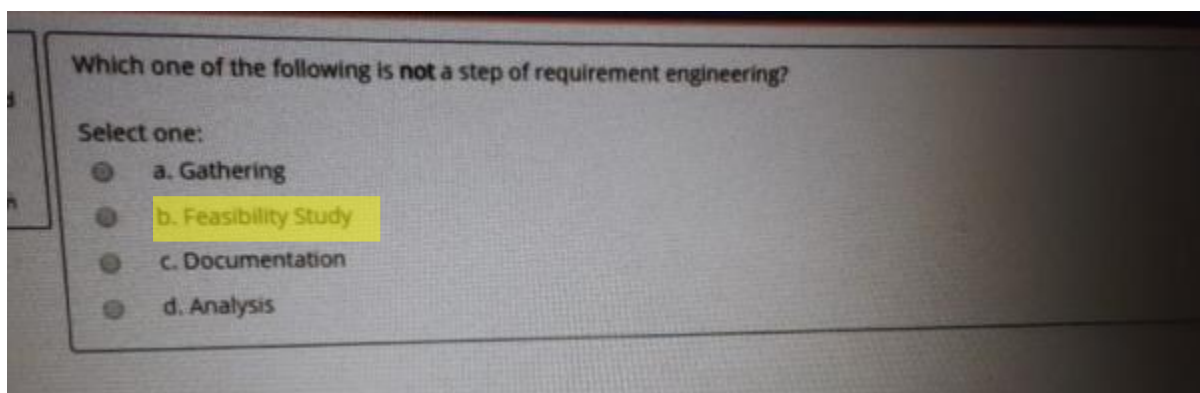
1. A feasibility study



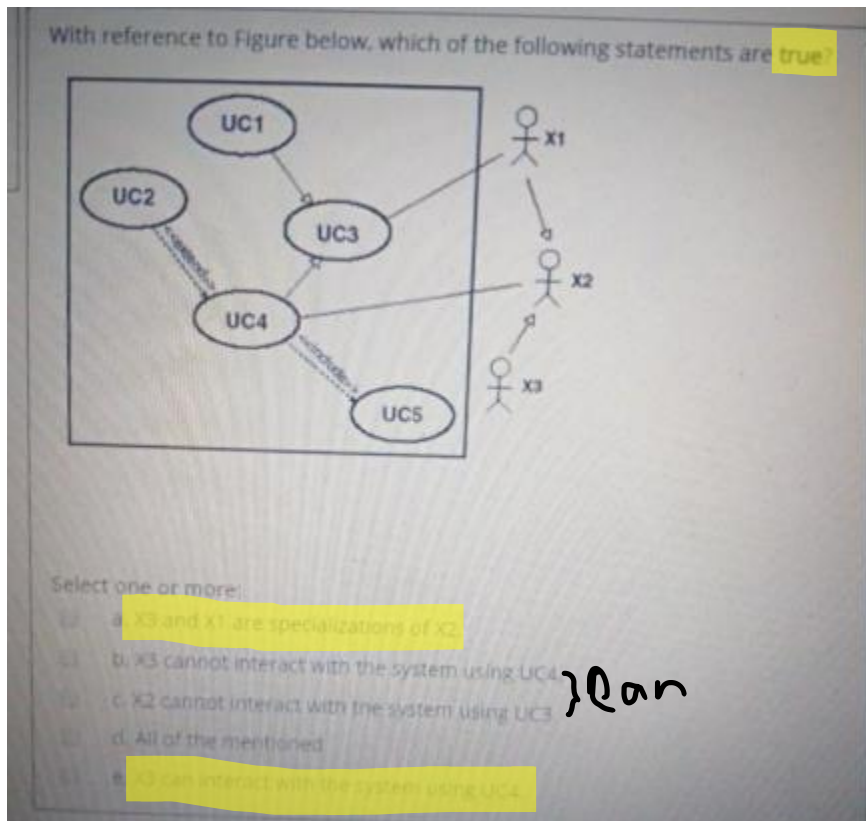
2. Design models have the following characteristics



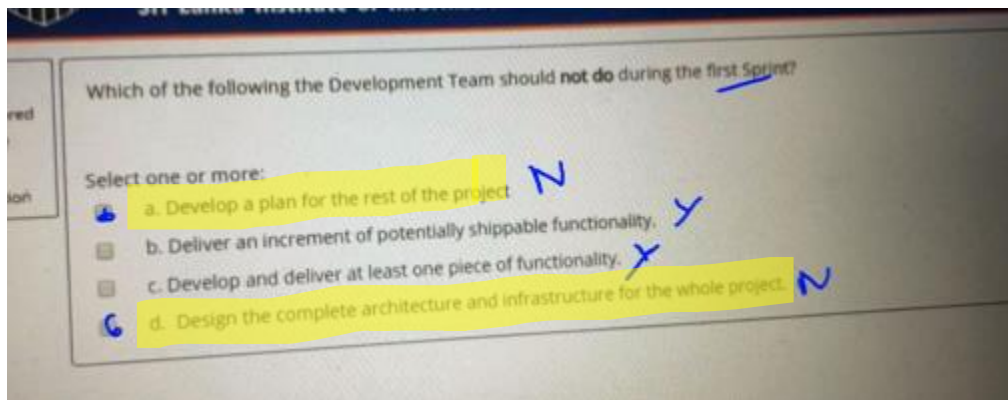
3. Which one of the following is not a step of requirement engineering ?



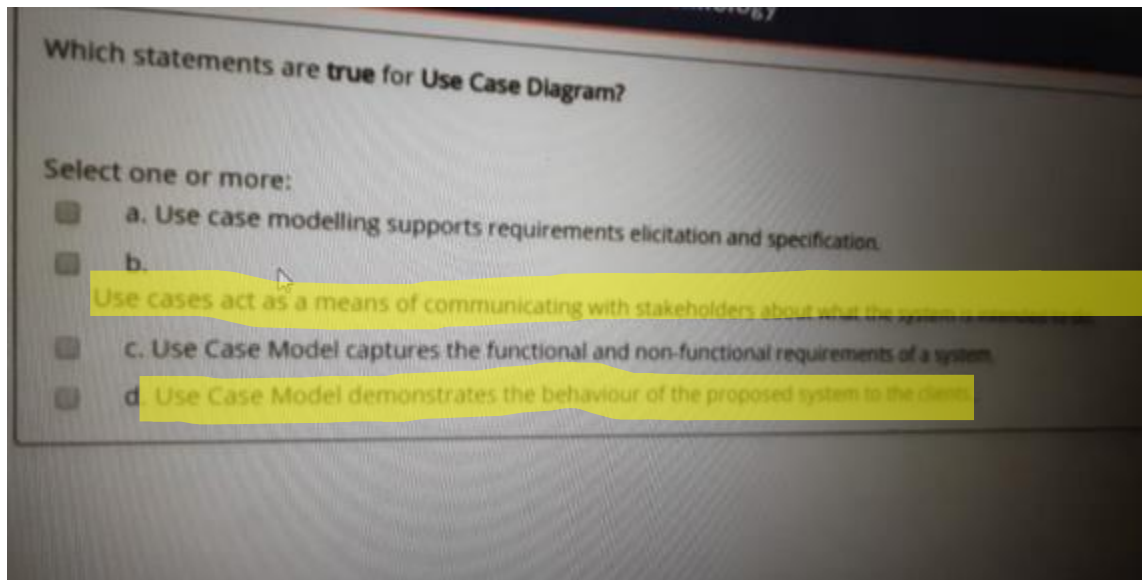
4. With reference to figure below which of the following statement are true ?



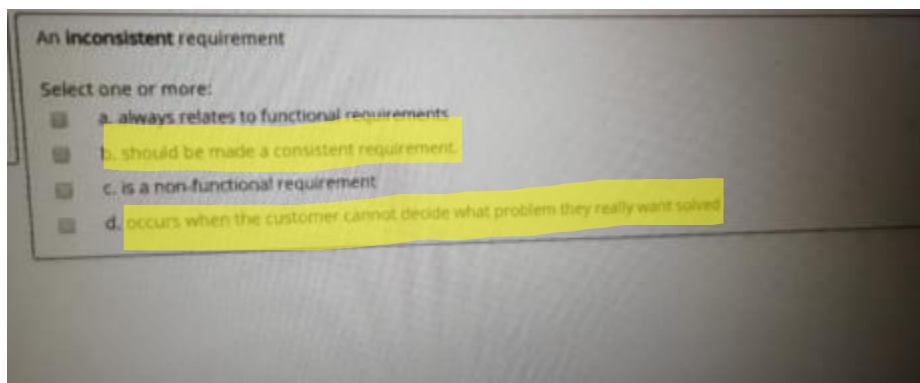
5. Which of the following the development team should not do during first sprint ?



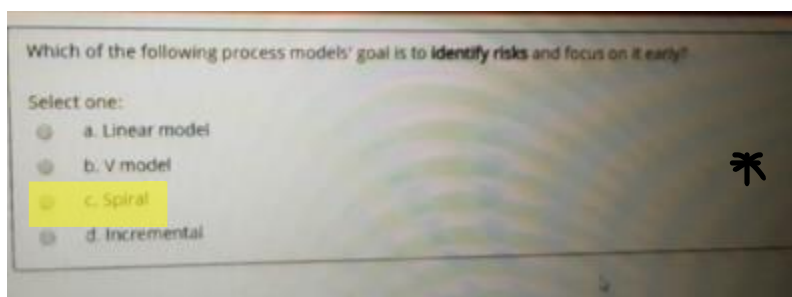
6. Which statements are true for use case diagram ?



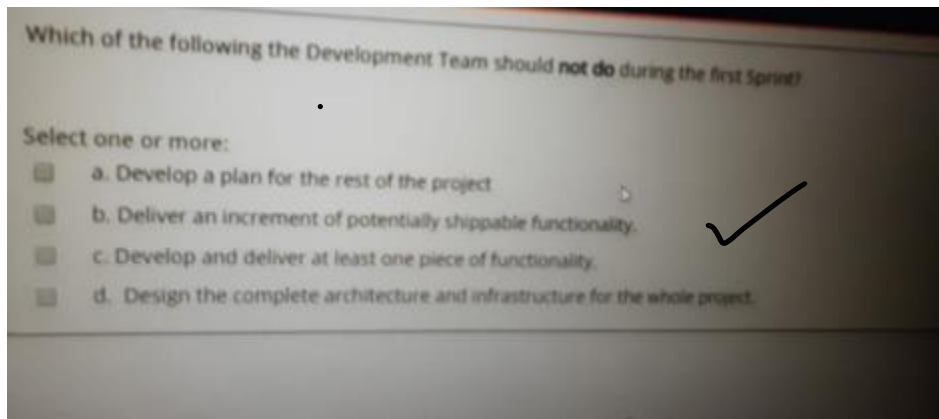
7. An inconsistent requirement



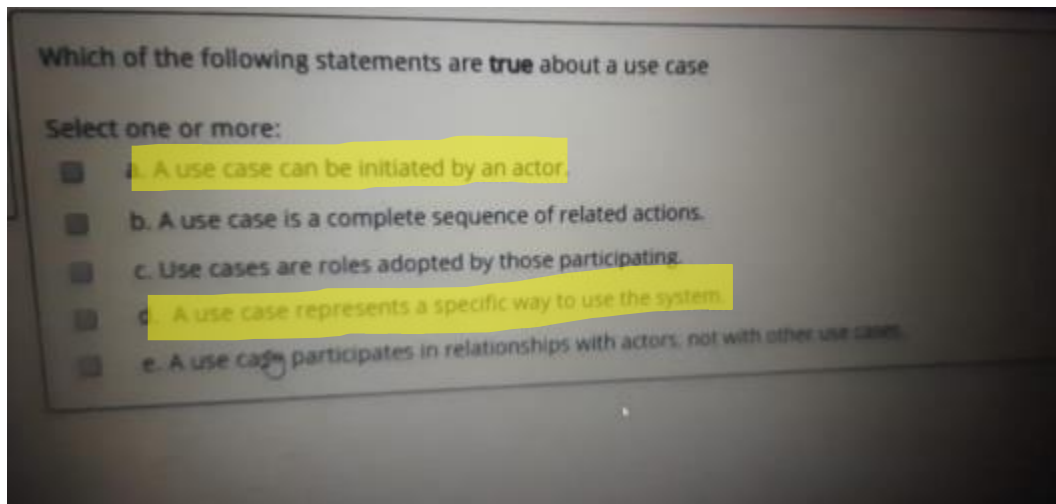
8. which of the following process models goal is to identify and focus ...



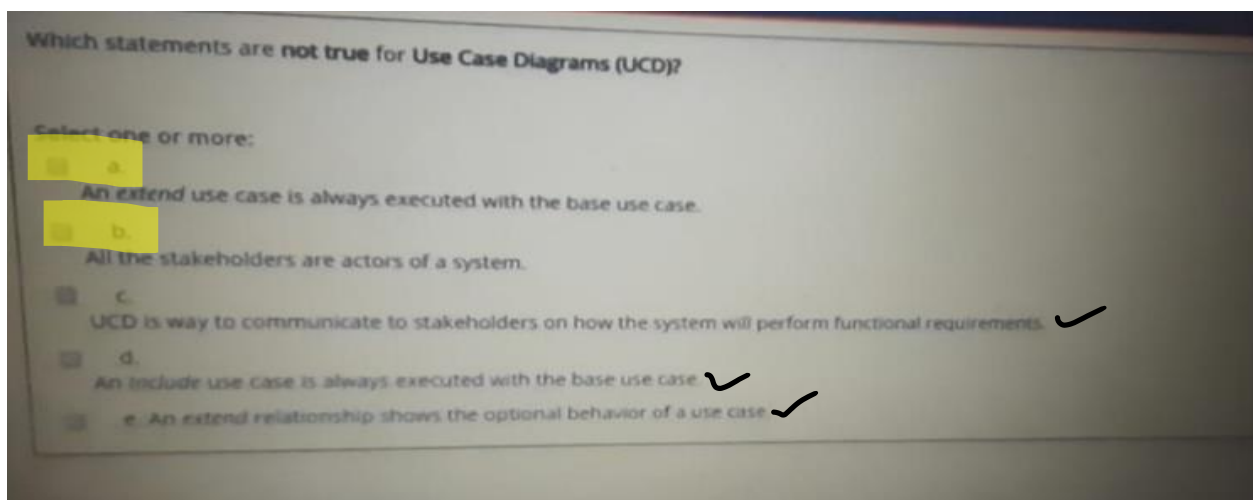
8. Which of the following development team should not do during the



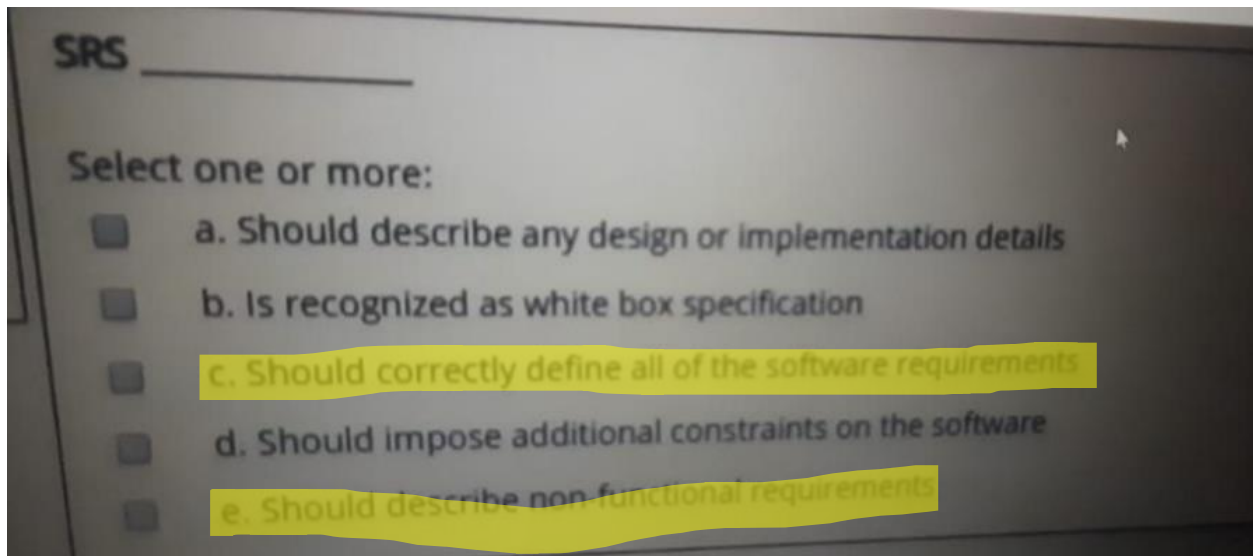
9. Which of the following statements are true about a use case



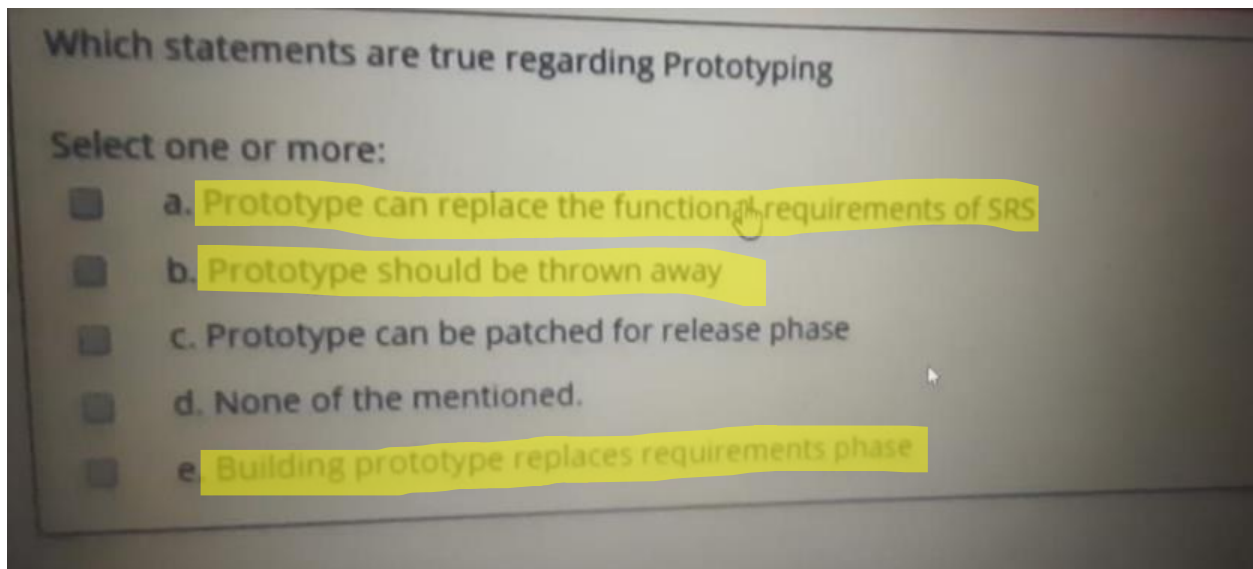
10. Which statements are not true for use case diagram ?



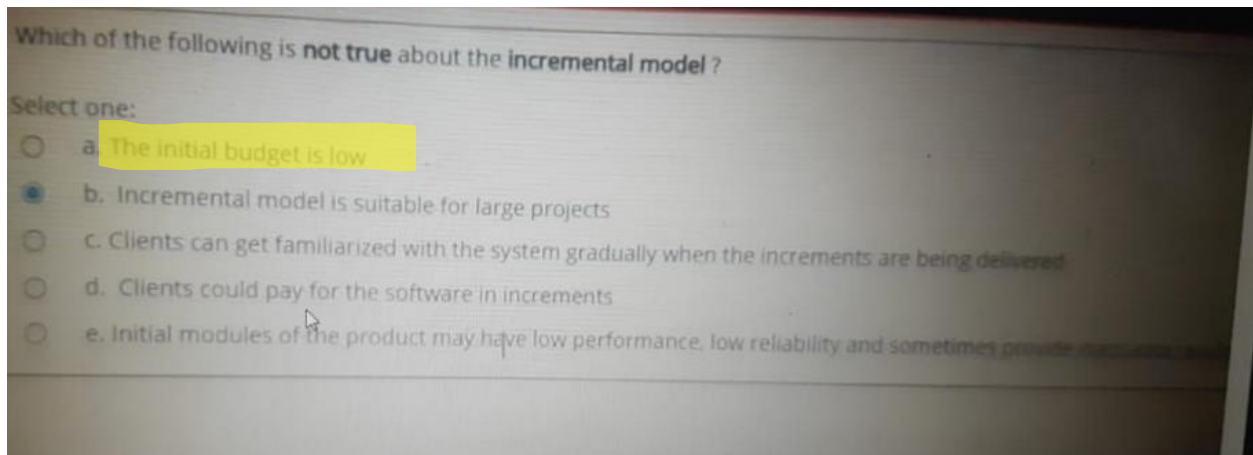
11. SRS



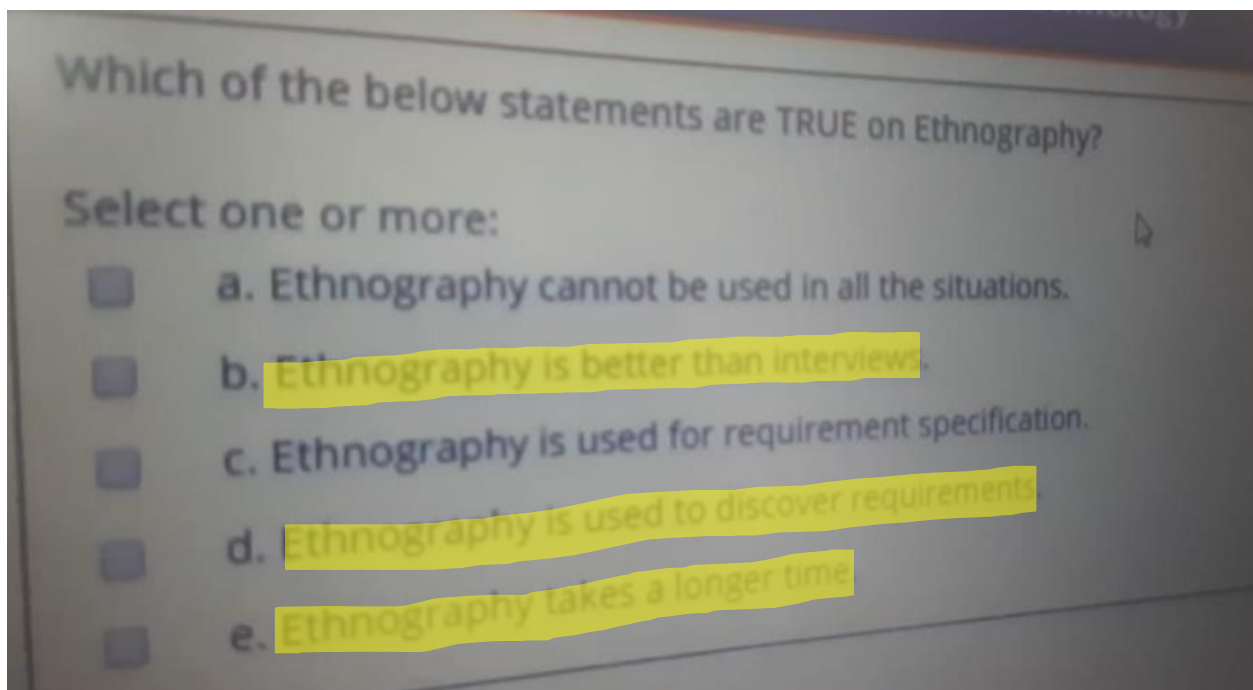
12. Which statements are true regarding prototyping



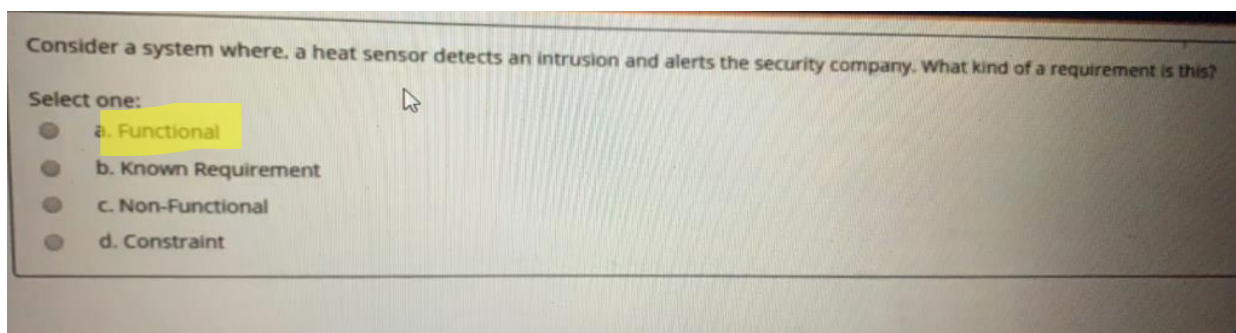
13. Which of the following is not true about the incremental model ?



14. Which of the below statements are TRUE on ethnography ?



15. Consider a system where a heat sensor detects an intrusion and alerts the security company .



16. System modeling space may include ?

System modeling space may include;

Select one or more:

- ☐ a. User stories
- ☒ b. Activity diagram
- ☐ c. None of the mentioned
- ☒ d. CRC cards
- ☒ e. Use case diagram

17. Which of the following statements are TRUE regarding the diagram given in figure 3 ?

Which of the following statements are **TRUE** regarding the diagram given in figure 3?

```
graph TD
    a1((a1)) --- UC1((UC1))
    a2((a2)) --- UC1
    UC1 -.->|<<extend>>| UC3((UC3))
    UC1 -.->|<<include>>| UC4((UC4))
    UC2((UC2)) --| UC1
```

Select one or more:

- ☒ a. When UC1 is triggered, UC4 will also be triggered
- ☒ b. Both a1 and a2 associate with UC1
- ☐ c. When UC1 is triggered, UC3 might not be triggered
- ☒ d. When UC1 is triggered UC2 is also triggered

18. Which statements are not true for use case diagrams

Which statements are **not true** for Use Case Diagrams (UCD)?

Select one or more:

- ☒ a. An extend use case is always executed with the base use case.
- ☐ b. All the stakeholders are actors of a system.
- ☐ c. UCD is way to communicate to stakeholders on how the system will perform functional requirements.
- ☐ d. An include use case is always executed with the base use case.
- ☐ e. An extend relationship shows the optional behavior of a use case.

✓

19. Which of the following about the given diagram are true ?

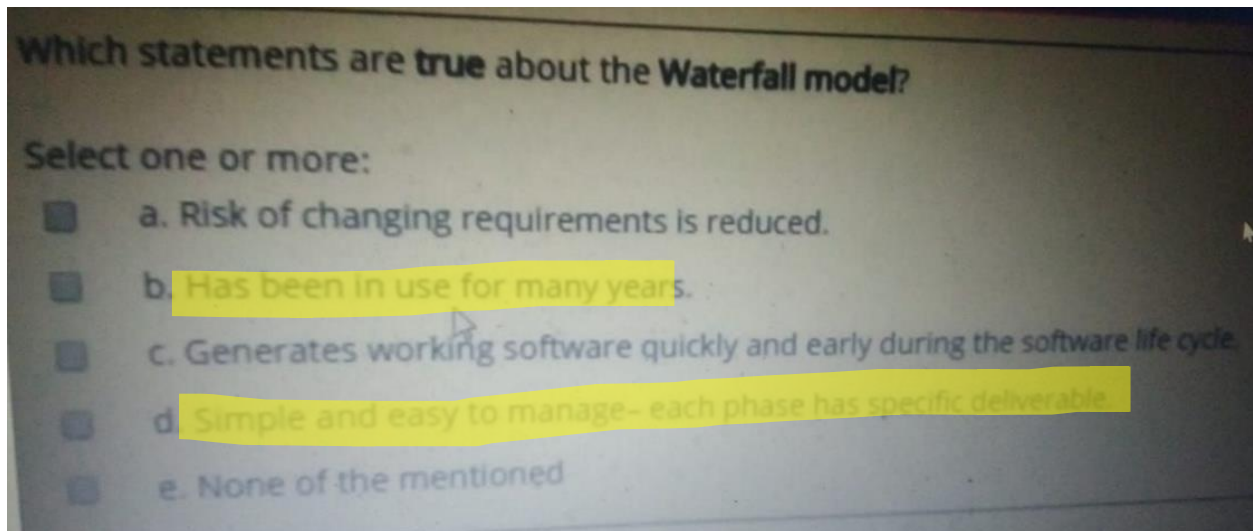
Which of the following statements about the given diagram are **true**?

```
graph TD
    X((X)) --- Y((Y))
    A((A)) --|> X
    B((B)) --|> X
    subgraph System
        Y
        Z((Z))
        Y --|> Z
    end
```

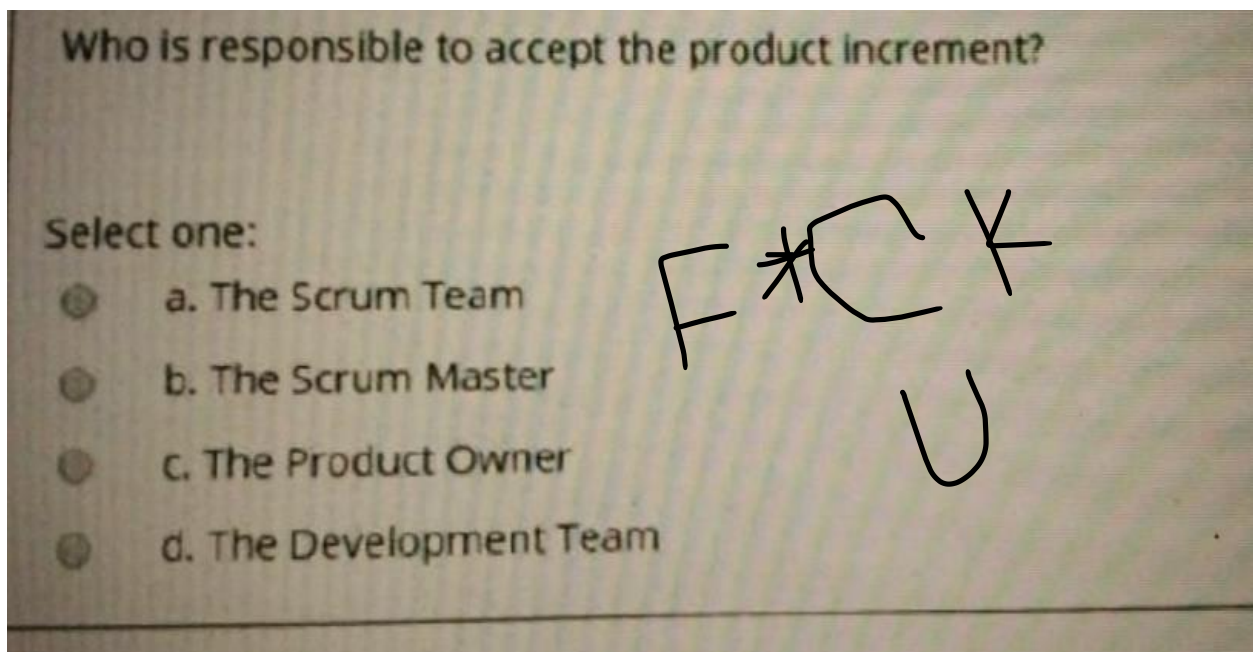
Select one or more:

- ☒ a. A can ignore Use Case Y.
- ☒ b. A and B inherit the behaviour of X.
- ☒ c. A or B can execute Use Case Z.
- ☐ d. A and B are not associated with Use Case Y.

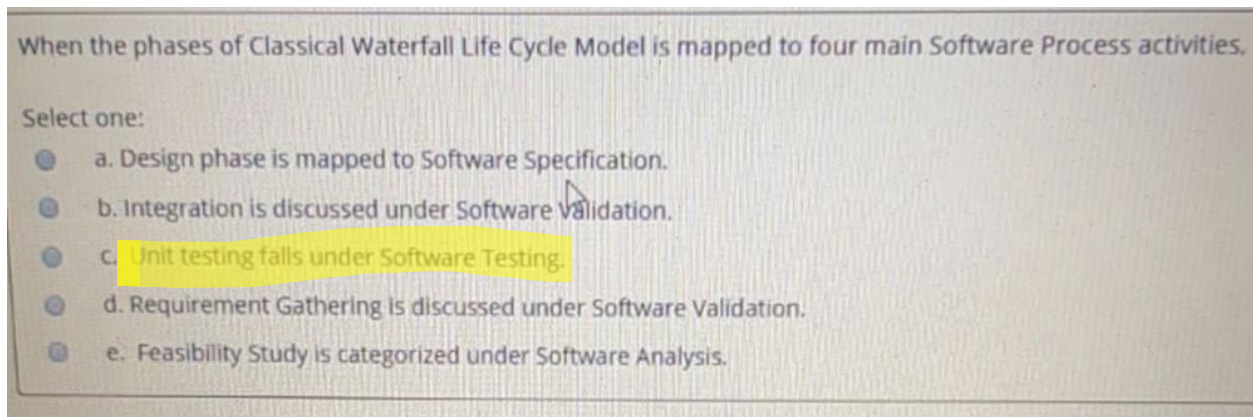
20. Which statements are true about the waterfall model ?



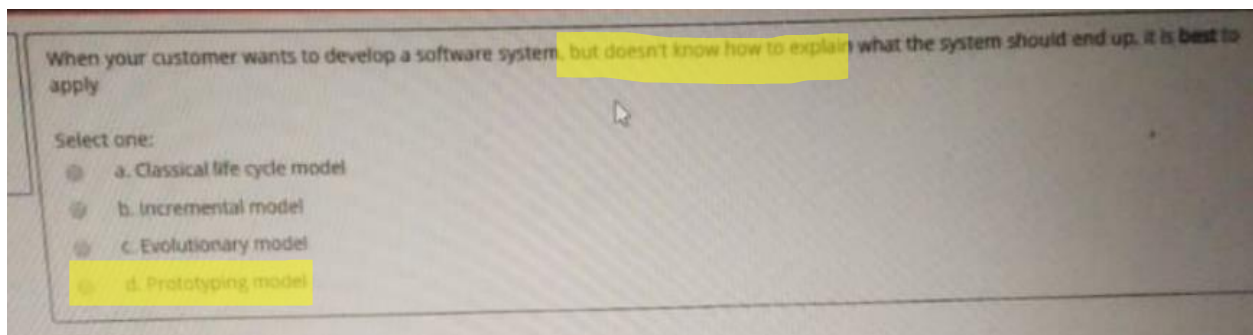
21. Who is responsible to accept the product increment?



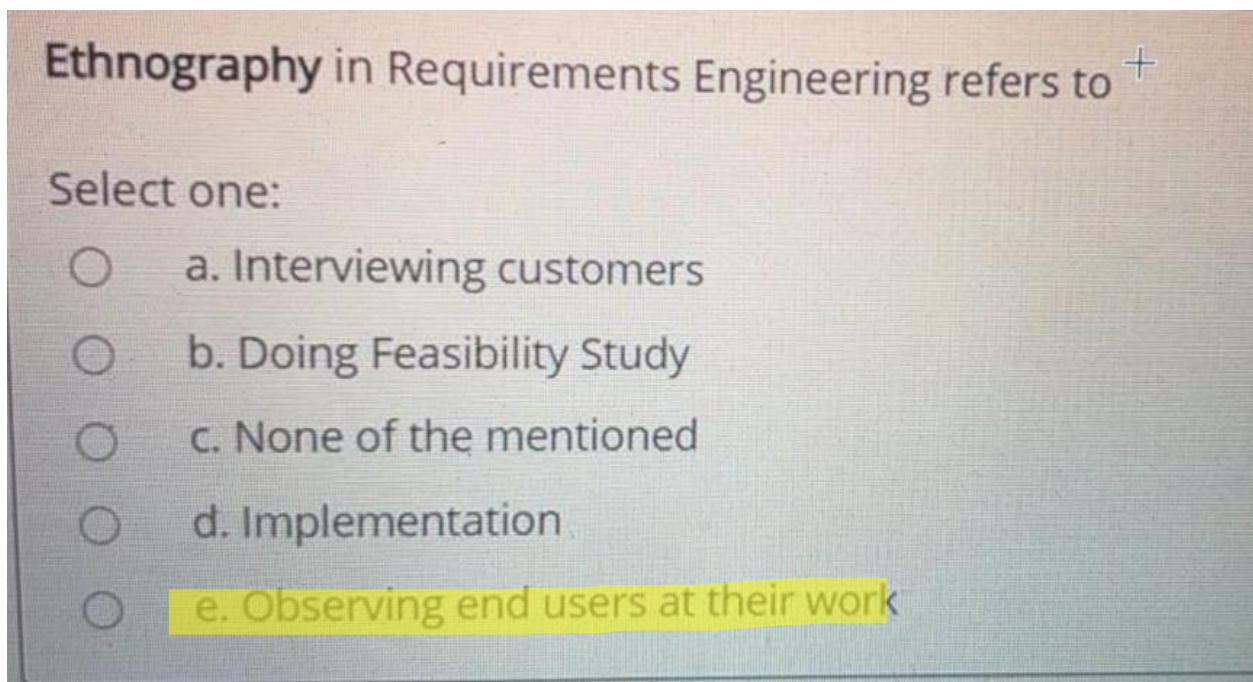
22. When the phase of classical waterfall life cycle model is mapped to four main



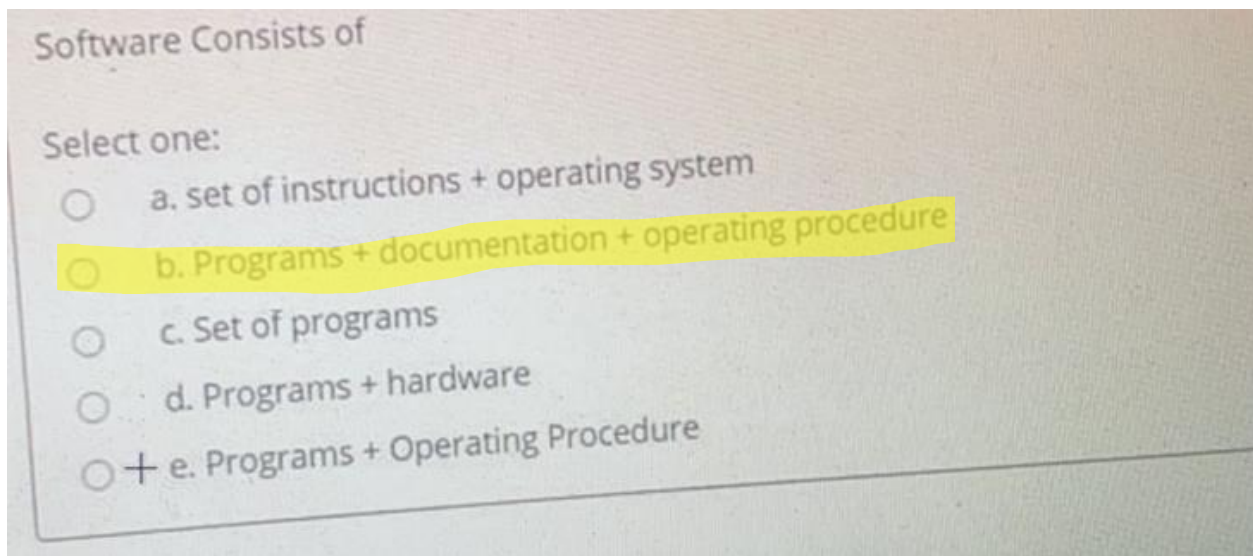
23. When your customer want to develop a software system but doesn't know how to ...



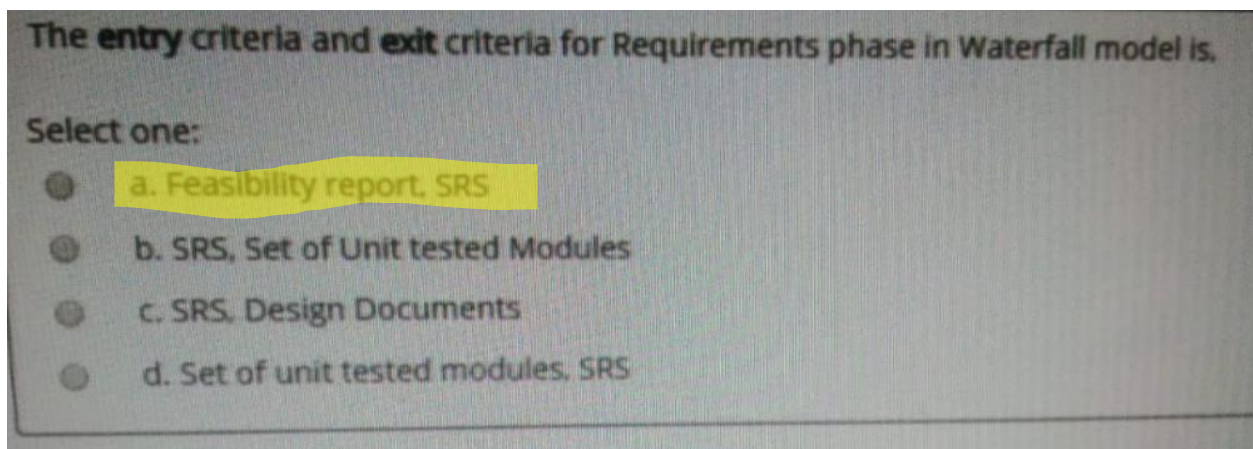
24. Ethnography in requirement engineering refer to



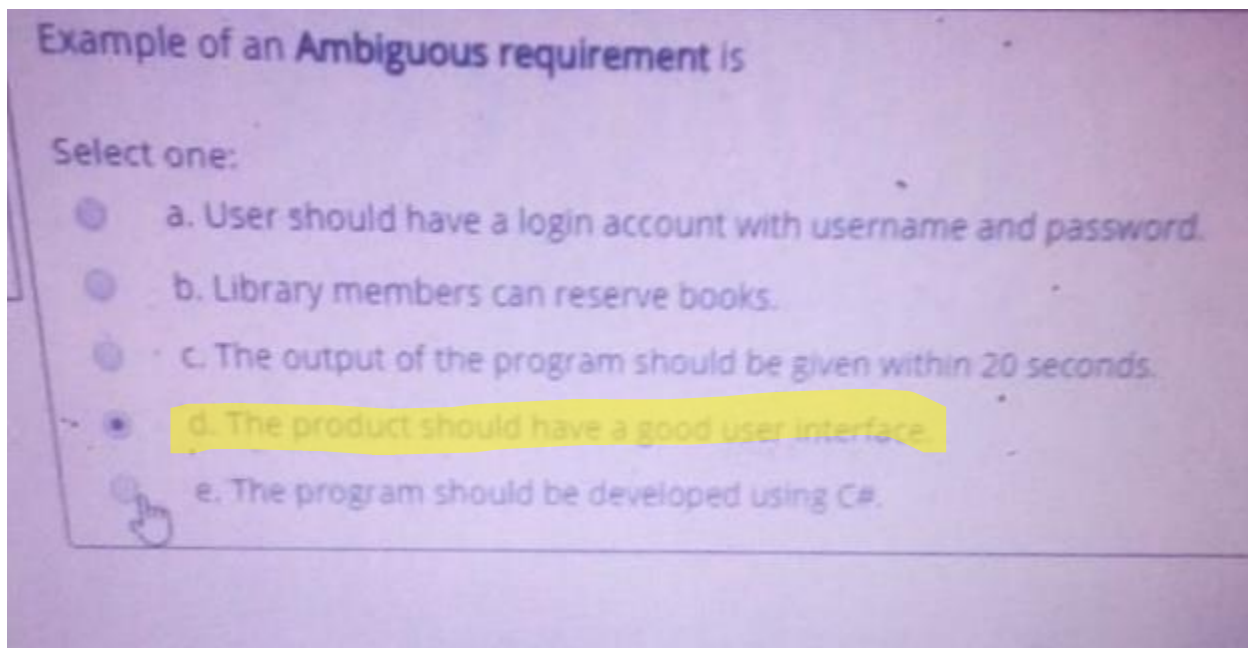
25. Software consists of



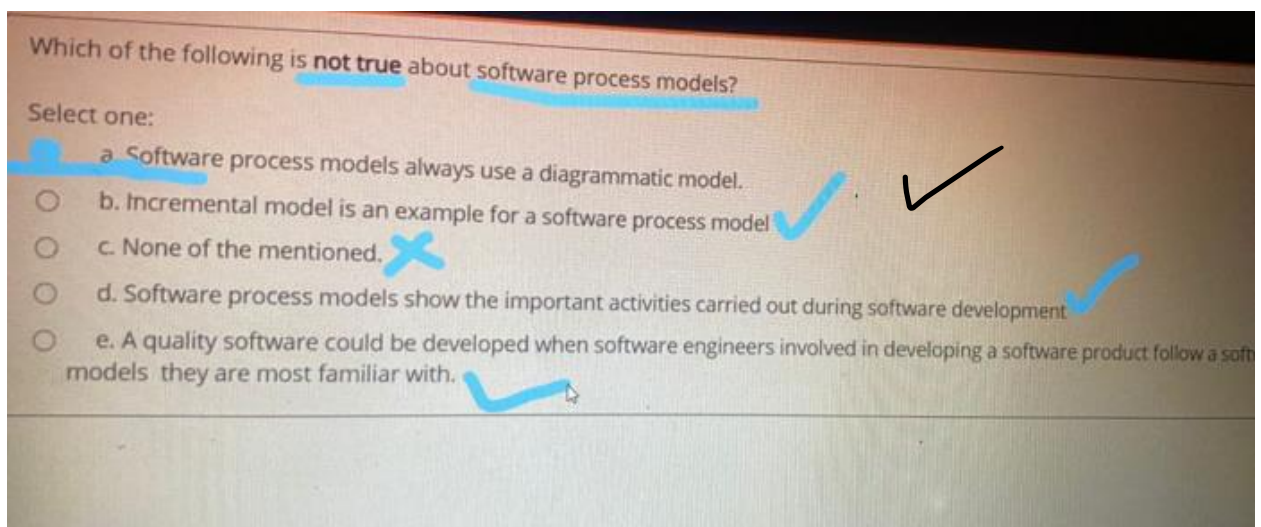
26. The entry criteria and exist criteria for requirements phase in waterfall model is



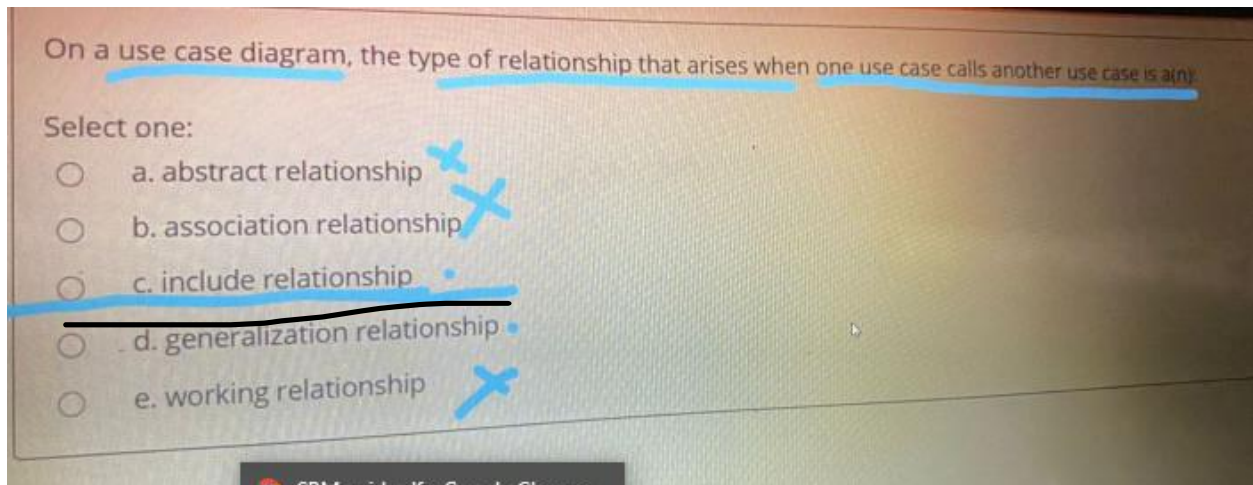
27. Example of an Ambiguous requirement is



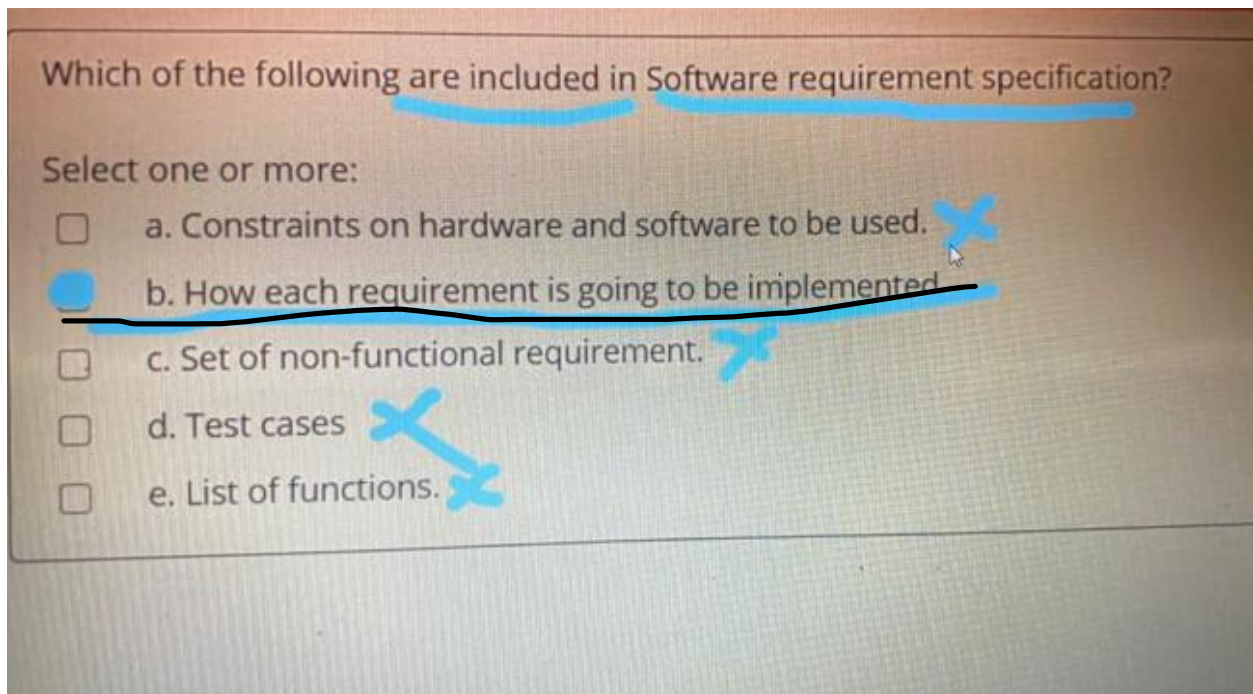
28. Which of the following is not true about software process models ?



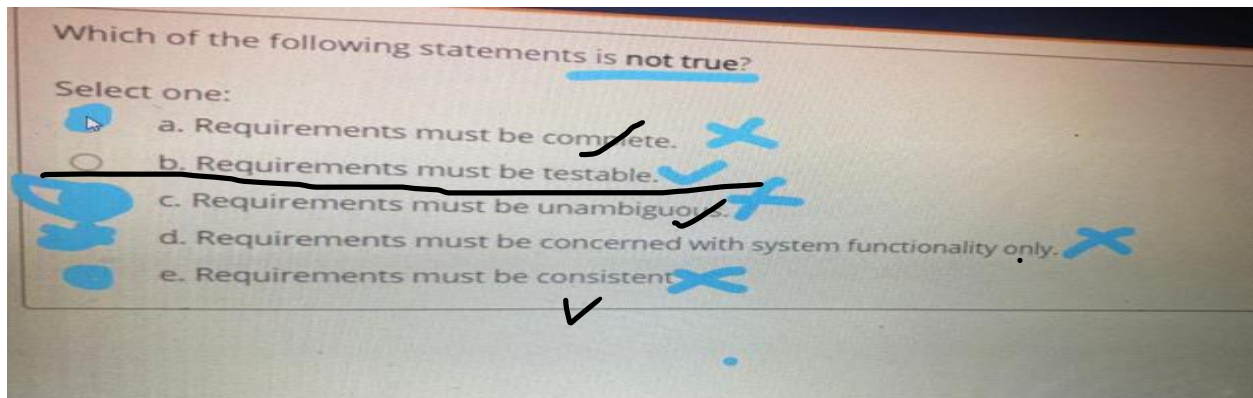
29. On a use case diagram , the type of relationship that arises when



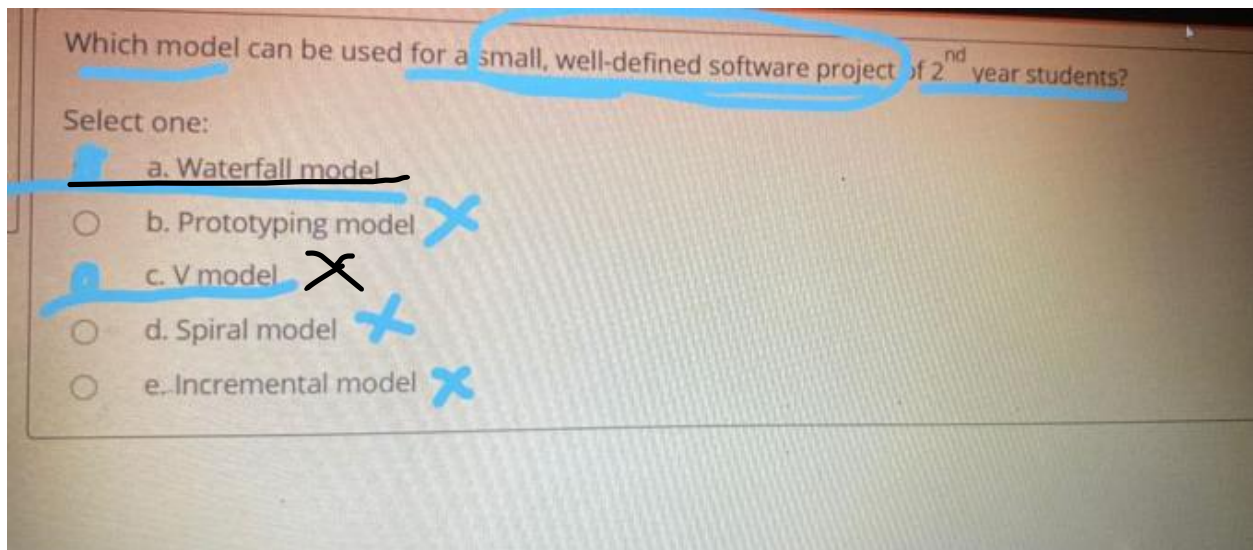
30. Which of the following are included in software requirement specification ?



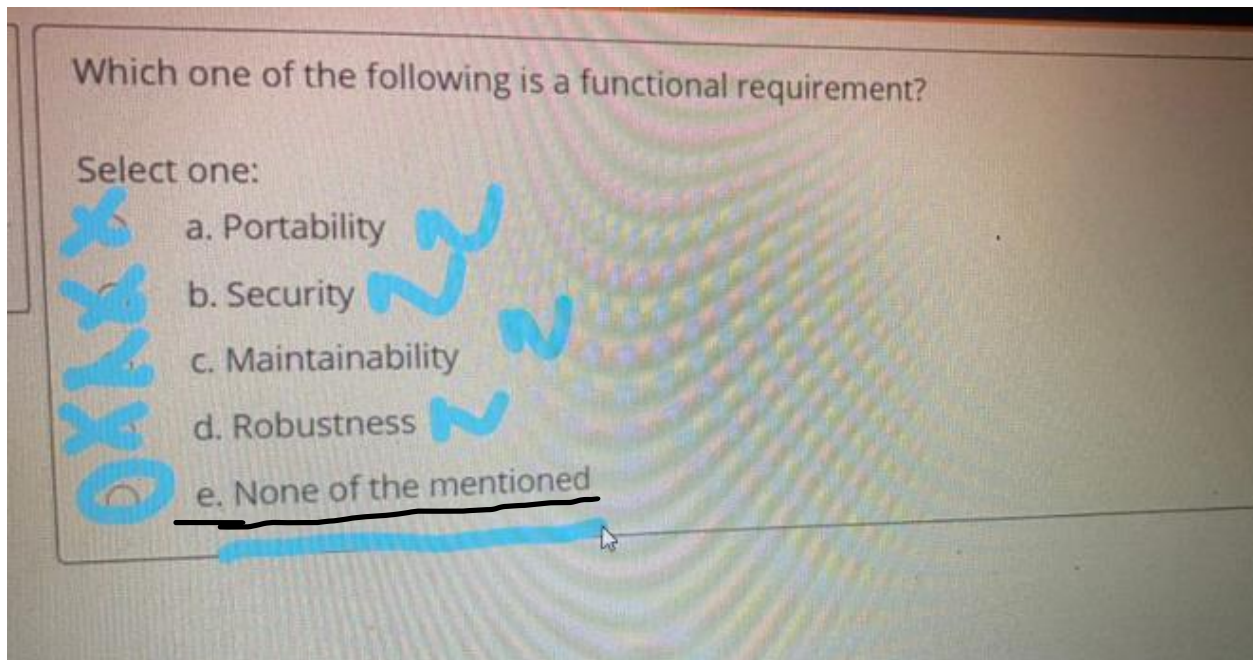
31. Which of the following statements is not true ?



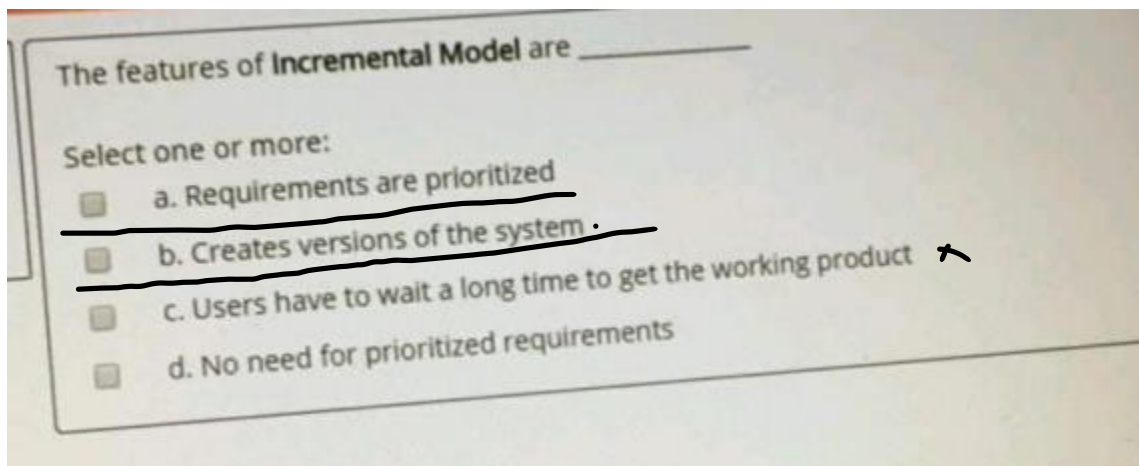
32. Which model can be used for a small, well-defined software project of 2nd year students ?



33. Which one of the following is functional requirement ?



34. The features of incremental model are



35. Use case scenario contents must include

Use Case scenario contents **must** include

1. Use case ID .
2. Goal in context .
3. Main Success Scenario steps .

Select one:

- ☐ a. 1 and 3
- ☐ b. 1 only
- ☐ c. 1 and 2
- ☒ d. 1, 2 and 3
- ☐ e. 2 and 3

36. Selection of particular life cycle model is not based on

Selection of particular life cycle model is **not** based on _____

Select one:

- ☐ a. Technical knowledge of development team .
- ☐ b. Project type and associated risk .
- ☐ c. Requirements .
- ☒ d. None of the mentioned
- ☐ e. Testing methods .

37. Internet banking system must allow customers to transfer funds ...

"Internet banking system must allow customers to transfer funds." Which of the following types of requirement is represented here.

Select one:

- ☐ a. Constraint, Functional requirement.
- ☐ b. Precise, Non-functional requirement.
- ☒ c. Precise, Functional requirement.
- ☐ d. Imprecise, Non-functional requirement.
- ☐ e. Imprecise, Functional requirement.

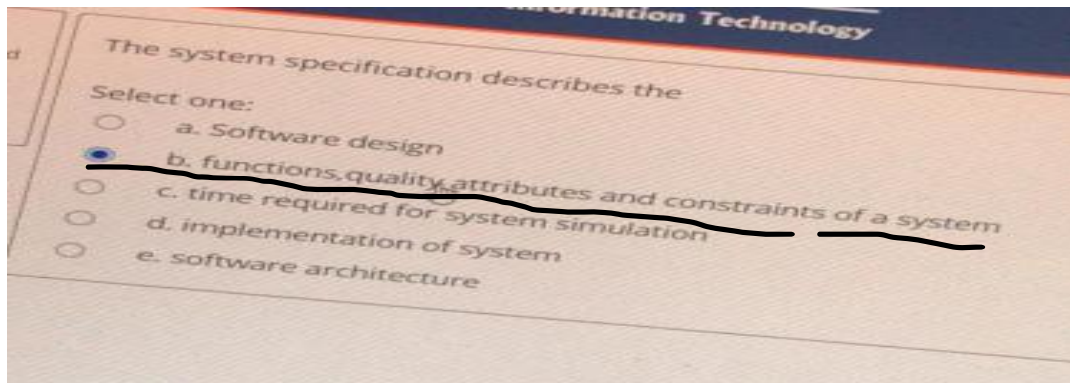
38. A company needs an inventory

A company needs an inventory control system to maintain its inventory. The company could either develop a new software in-house or purchase an already developed software. During which phase(s) of the classical waterfall model can the company management take the decision on whether it is best to develop the software in-house or to purchase existing software?

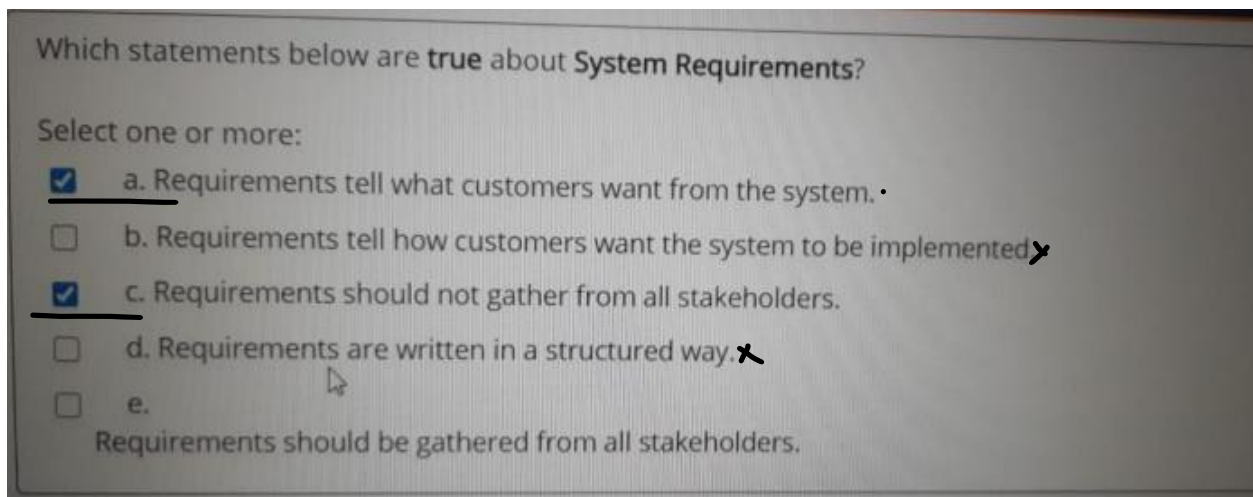
Select one:

- ☐ a. Implementation
- ☐ b. Design
- ☒ c. Feasibility study
- ☐ d. Testing
- ☐ e. Requirement

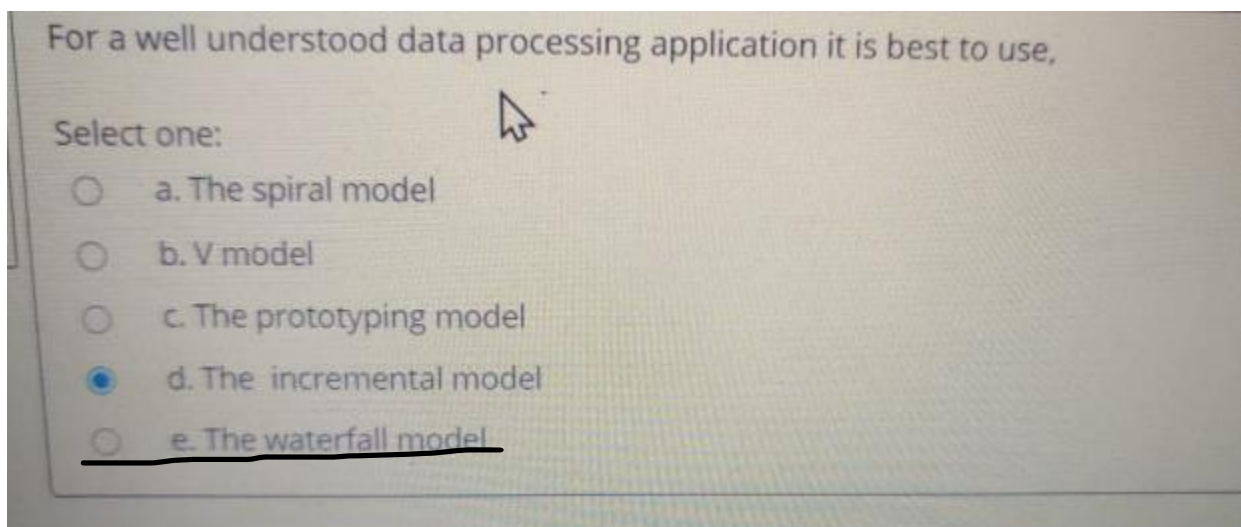
39. The system specification describes the



40. Which statements below are true about system requirements ?



41. For a well understood data processing application it is best to use ?



42. Which of the following is done during the discoverrequirementy ?

Which of the following is done during the requirement discovery step?

Select one:

- ☐ a. Validate and verify the client requirements
- ☐ b. Document the client requirements
- ☐ c. Obtain clients approval for the SRS
- ☐ d. Identify the constraints of the system
- ☒ e. Interview the clients

43. When choosing the best SDLC model for

When choosing the best SDLC model for a project which of the following should be considered?

Select one or more:

- ☐ a. Project Name
- ☒ b. Project Duration
- ☒ c. Type of users
- ☐ d. None of the mentioned.
- ☒ e. Experience of the development team

44. Which of the following is an ambiguous

Which of the following is an **ambiguous** requirement?

Select one:

- ☐ a. If the user entered a wrong password do not show the welcome page.
- ☐ b. Make the login page more "User-friendly".
- ☒ c. Library member can reserve books
- ☐ d. When the user forgets his password show the "password forgotten?" link.
- ☐ e. It should take maximum 10 seconds to load the login page

45. which of the following statements are ambiguous ?

Which of the following statements are **ambiguous**?

Select one or more:

- ☐ a. The system must respond fast.
- ☐ b. The software must not require more than 64MB of memory.
- ☐ c. The library system must have search book function..
- ☐ d. The system must be user friendly to attract more customers.
- ☐ e. The library system must have reserve book function..

46. "internet banking system must be easy to use"

7

Sri Lanka Institute of Information Technology

"Internet banking system must be easy to use for online users." Which of the following type of error is present in the a

Select one:

- ☐ a. Inconsistency
- ☐ b. Availability
- ☐ c. None of the mentioned
- ☒ d. Ambiguity
- ☐ e. Incompleteness

+

47. which of the following statement true ?

Which of the following statements are true?

Select one or more:

- ☐ a. V-model is best when requirements are not well-designed
- ☒ b. V-model is also called validation and verification model
- ☐ c. V-model highly focuses on risk mitigation
- ☒ d. V-model finds errors easily
- ☐ e. V-model is more costly

48. validation phase of V-model include ?

Validation phase of *V-model* includes,

Select one:


- ☐ a. Unit Testing.
- ☐ b. System Testing.
- ☐ c. Integration Testing.
- ☒ d. All of the mentioned.
- ☐ e. Beta Testing

49. which of the following are not true ?

Which of the following are **not true**?

Select one or more:

- ☐ a. QA Engineers should also be involved in Requirements Engineering
- ☐ b. Requirements Engineering covers the entire development and testing phases
- ☐ c. Actors in Use case Diagrams are only involved in Requirements Engineering
- ☐ d. None of the mentioned
- ☐ e. Requirements Engineering involves writing test cases




50. which of the following are TRUE about critical system

Which of the following are **TRUE** about **Critical Systems**?

Select one or more:

- ☒ a. People are dependent on Critical Systems.
- ☐ b. All software systems are Critical Systems.
- ☐ c. An inventory handling system is an example of a critical system.
- ☐ d. Credit Card payment system in a bank is an example of a Critical System.
- ☒ e. Mission Critical Systems are systems used in war.



51. which of the following are true about software ?

Which of the following are **true** about software?

Select one or more:

- ☒ a. Visual studio is used to develop, debug and test software.
- ☒ b. Oracle is a database management system.
- ☐ c. Visual Studio is not a software, it is a tool.
- ☐ d. Android is not a software.
- ☒ e. Android is an operating system.

52. which of the following statements given below

Which of the statements given below are **true** about a software **prototype**?

- a) Prototype is a working model of part or all of a product
- b) Prototypes can be used as the final product
- c) It is a toy system used to clear out the software system requirements

Select one:

- ☐ a. B and C only
- ☐ b. B only
- ☐ c. A only
- ☐ d. A and B only
- ☒ e. C only

53. which of the following statements is not true about spiral model ?

Which of the following statements is **not true** about the **Spiral Model**?

Select one:

- ☐ a. It is best used for projects which need risk management. ✓
- ☐ b. It may use prototyping. ✓
- ☐ c. Phases of Spiral model are overlapped
- ☐ d. It has four quadrants which focus on specific tasks. ✓
- ☐ e. None of the mentioned

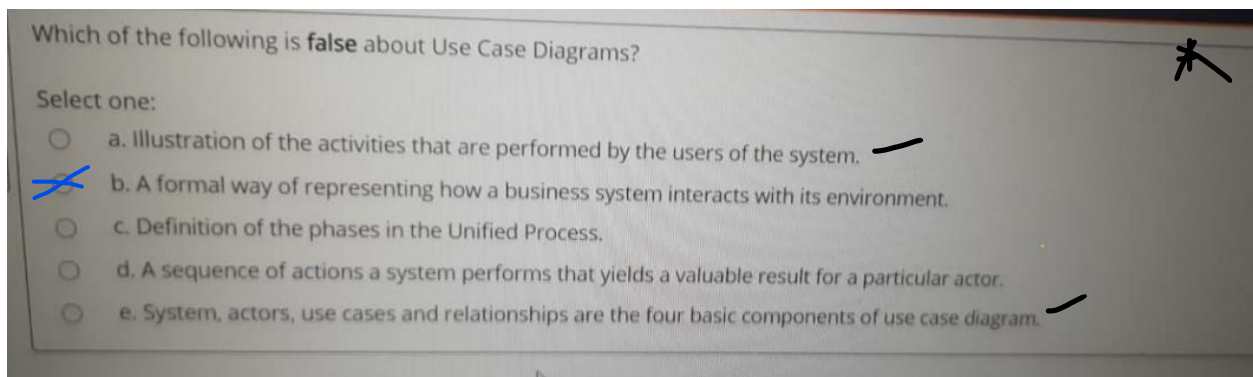
54. Main goals of prototyping are to

Main goals of **Prototyping** are to _____

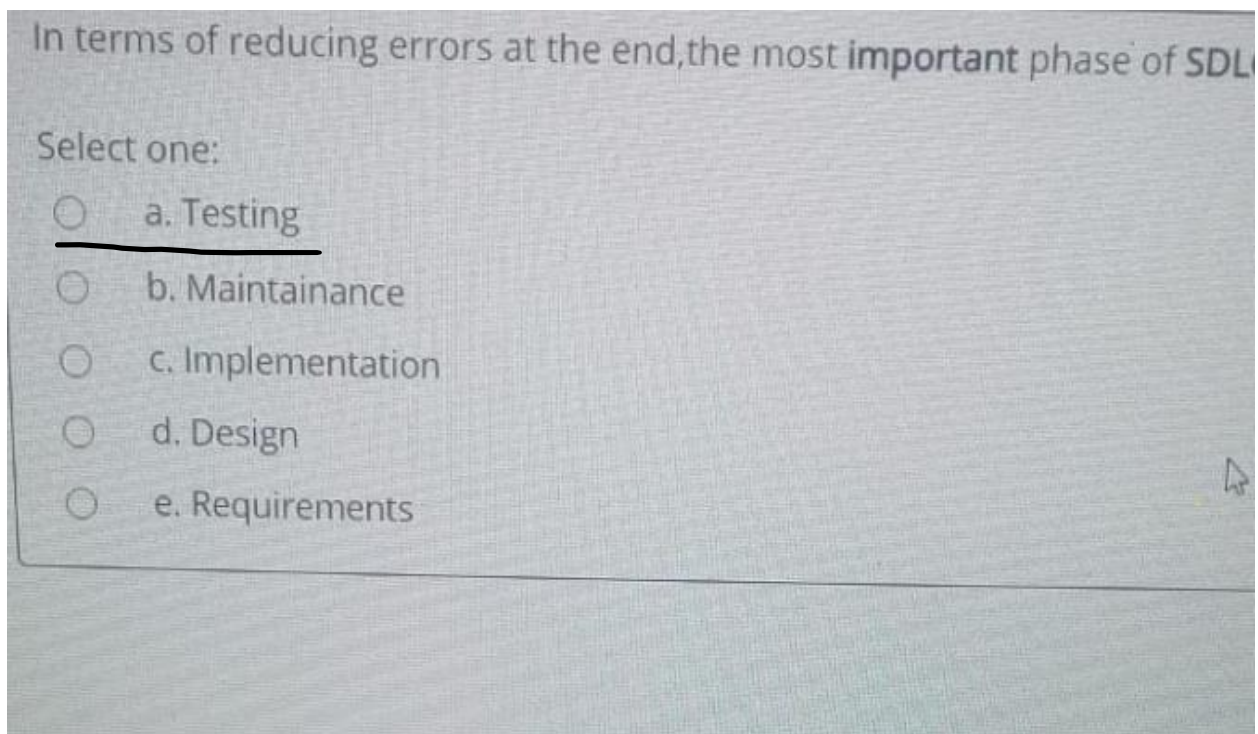
Select one or more:

- ☒ a. Get the approval from the end user
- ☒ b. Understand the end user
- ☐ c. Design the system
- ☐ d. Manage the development team
- ☐ e. Clarify the programming language

55. which of the following is false about use case diagram ? (Top)



56. in terms of reducing errors at the end



57. which of the following are true (TOP)

Which of the following are **TRUE** statement/s about **Critical Systems**?

Select one or more:

- ☐ a. If these systems fail to deliver their services as expected then no serious problems and no significant losses may result. ✗
- ☐ b. There won't be any significant effect when a critical system fails.
- ☒ c. Customer accounting system in a bank is an example for a critical system.
- ☒ d. A system whose failure may result in an injury or loss of life.
- ☐ e. System whose failure may result in the failure of some goal-directed activity.

58. which of the following are false regarding a use case ?

Which of the following are **false** regarding a use case?

Select one or more:

- ☐ a. It should not describe in detail the quality of the user interface of the system ✓
- ☐ b. It should have a name with a verb-noun phrase ✓
- ☒ c. It should describe in detail the quality of the user interface of the system ✗
- ☐ d. It shows a non-functional requirement in the system
- ☐ e. It appears as an ellipse in a use case diagram

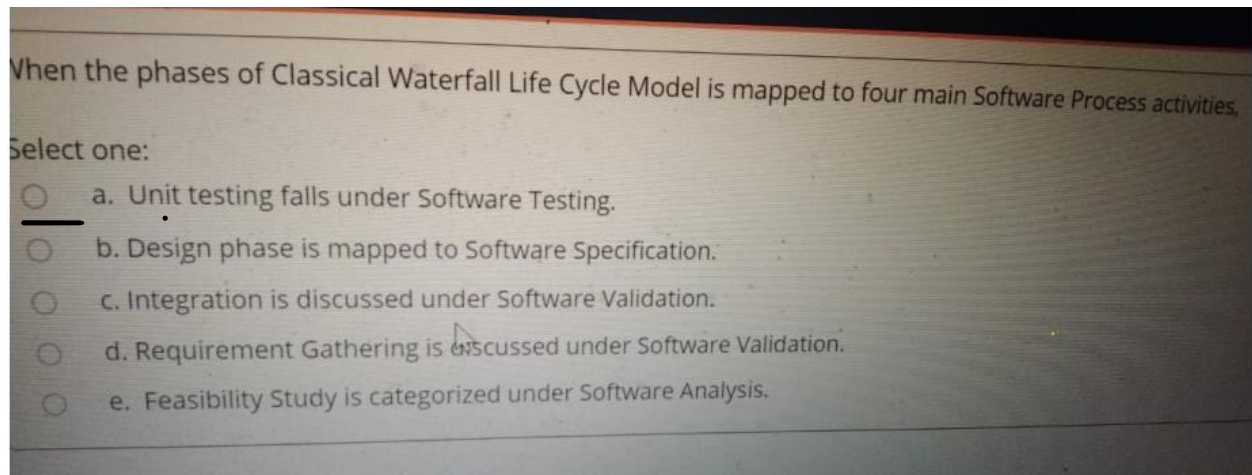
59. which of the below statements are TRUE on

Which of the below statements are **TRUE** on Requirement Errors?

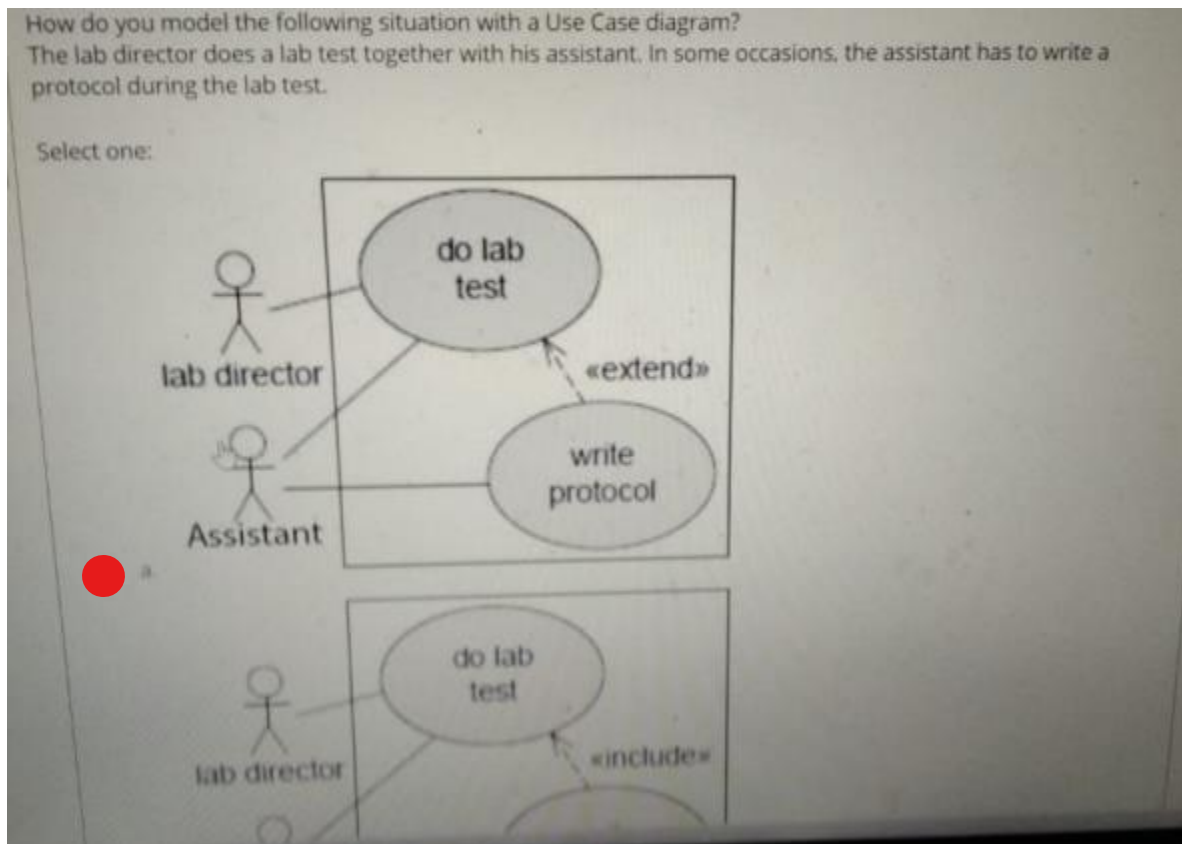
Select one or more:

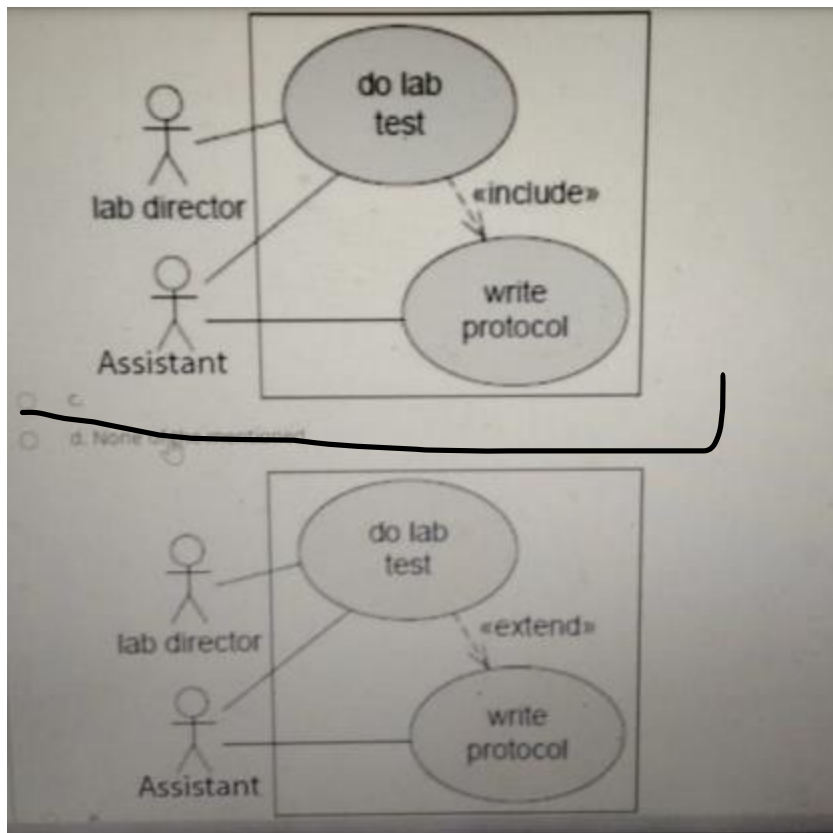
- ☐ a. If Requirement Errors are not corrected, they will cost a lot.
- ☒ b. Unambiguous requirements are a type of requirement error.
- ☐ c. Requirement Errors should corrected after specifying them.
- ☐ d. "System should be fast" is an ambiguous requirement.
- ☐ e. Requirement Errors should not be discussed with the stakeholders.

60. when the phase of classical waterfall



61. how do you model the





62. Which relationship specifies

Which relationship specifies an **optional** behaviour?

Select one:

- ☐ a. An association
- ☐ b. An inheritance
- ☐ c. A generalization
- ☐ d. An include
- ☒ e. An extend

63. on a use case diagram , the type

On a use case diagram, the type of relationship that arises when one use case calls another use case is a(n):

Select one:

- ☐ a. abstract relationship
- ☐ b. association relationship
- ☐ c. working relationship
- ☐ d. generalization relationship
- ☒ e. include relationship

Next page

64. in the following use case diagram

In the following Use Case Diagram, which actors communicate with Use Case D?

```
graph LR
    S((S)) --- D((D))
    T((T)) --- F((F))
    R((R)) --- E((E))
    F -.->|«extends»| D
    E --|> D
```

Select one:

- ☐ a. T
- ☒ b. S
- ☐ c. R
- ☐ d. S and T
- ☐ e. S and R

STR

