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Questions

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Multiple Choice

2.0/2.0 points (graded)

In an airport management system, a passenger can check himself in with his plane ticket. As soon as a passenger checks-in, the system generates a boarding pass for him.

Which of the following relationships can represent the relation between 'Check-In' and 'Generate Boarding Pass' in a use case diagram?

☐ Association☒ Include Relationship☐ Extend Relationship☐ None of the above[Submit](#)

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Multiple Choice

2.0/2.0 points (graded)

Daraz.com allows customers to make online payments via card or bkash or nagad. It also offers discounts to its customers if the total price of purchased goods is more than 3000 taka.

Which of the following relationships can represent the relation between payment and discount offers in a use case diagram?

☐ Association☐ Include Relationship☒ Extend Relationship☐ Both a and b[Submit](#)

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Multiple Choice

2.0/2.0 points (graded)

The "extend" relationship represents that:

☐ One use case inherits the behavior of another use case☐ One use case includes the activities of another use case☒ One use case conditionally provides additional functionalities to another use case☐ The base use case is incomplete without the extended use case

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Multiple Choice

2.0/2.0 points (graded)

Customer Relationship Management (CRM) software allows B2C businesses to maintain relationships with their customers by providing a platform on which the customer can directly communicate with a business representative or vice versa. When a customer initiates a conversation on the CRM, the CRM will send the message to all online business representatives, send an email to a central CRM address and store the message on the CRM for future reference/analytics. How would this relationship be represented on an activity diagram?

☐ Merge Node☐ Decision Node☒ Fork Node☐ Join Node

✓

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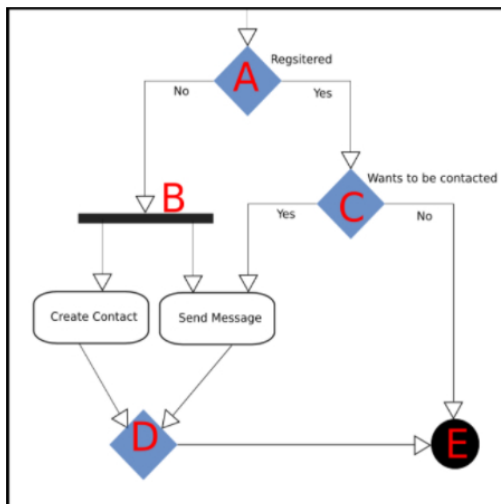
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Multiple Choice

2.0/2.0 points (graded)

When a business representative initiates a conversation on the CRM with a customer(s), the CRM verifies whether the given customer(s) is a registered customer with the CRM and if the customer(s) wants to be contacted. The following is a part of the activity diagram and several points are marked in red. **Point the mistakes in the activity diagram:**

☐ At point "A", a JOIN node should be used☐ At point "B", a MERGE node should be used☐ At point "C", a FORK node should be used☒ None of the above

✓

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Multiple Choice

2.0/2.0 points (graded)

Suppose, the complaint management system of Uber periodically asks the users for any relevant evidence if a complaint is initiated but not completed. Which component of the sequence diagram is most appropriate to model the scenario?

Which component of the sequence diagram is most appropriate to model the scenario:

☒ Reflexive message (Message from the same object to its own lifeline)

☐ Alternate box

☐ Synchronous message

☐ Object creation



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Multiple Choice

2.0/2.0 points (graded)

Suppose in a Sequence Diagram there is an "ATM booth" object and a customer as an actor. The customer inserted his card into the ATM machine and the ATM machine communicates with the "Bank server" object to check whether your card is valid or not. If your card is OK, the ATM requests you to enter your PIN. Here "Request Pin" is -

☒ A message.

☐ A response message

☐ Object destruction

☐ A self-message.



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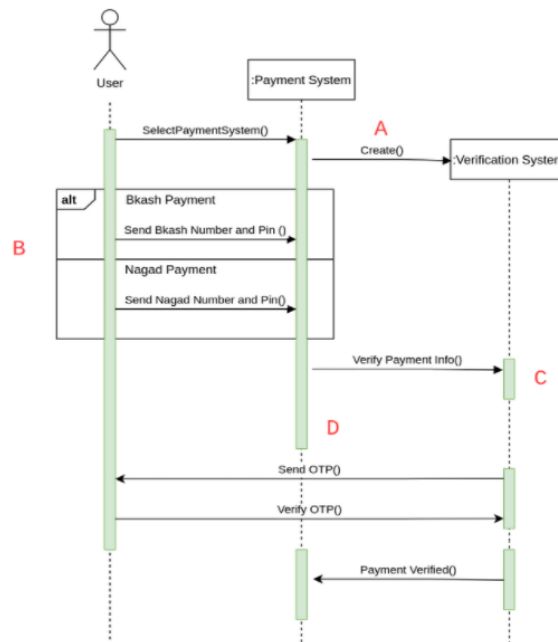
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Sequence 2

1.0/2.0 points (graded)

In Foodpanda, after confirming the food cart, the user has the option to pay using an online payment system. Only bKash and Nagad are supported in the payment system and in both the cases the user needs to provide the phone number and password to the payment system. The sequence diagram of Foodpanda's payment system is shown below:



Which statements are false for the above sequence diagram.

☒ The alternate box in B is not required

☒ The verification object in A should be created from the start of the time *

☐ The focus of control in C should not be segregated

☐ The payment system focus of control in D should not be separated as shown in the diagram ✓

*

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State machine 1

2.0/2.0 points (graded)

What's the difference between a state machine and a sequence diagram?

☐ a state machine diagram shows states and transitions of all objects; a sequence diagram depicts the sequential order of objects

☒ a state machine diagram shows states and transitions of an object; a sequence diagram depicts the sequential order in which objects interact

☐ a state machine diagram shows the states and transitions of the system; a sequence diagram depicts how the objects of the system can be grouped together

☐ None of the above statements

✓

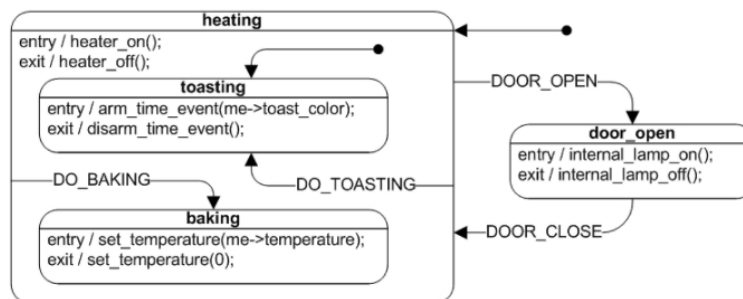
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Answer the following question based on this state machine diagram.



Multiple Choice

2.0/2.0 points (graded)

In the toaster-oven state machine diagram, what is the entry condition for baking?

☒ set_temperature(me->temperature)

☐ set_temperature(0)

☐ heater_on()

☐ heater_off()

✓

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Multiple Choice

2.0/2.0 points (graded)

In the toaster-oven state machine diagram, which of the following is a conditional trigger/event?

☐ DOOR_OPEN

☐ DOOR_CLOSE

☐ DO_TOASTING

☐ DO_BAKING

☒ None of them



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