

Quiz: Object-oriented Design

Test your understanding of object-oriented design concepts and diagrams.

We'll cover the following



- Arrange sequence diagram messages
- MCQs

Arrange sequence diagram messages

Scenario: You are a student and you wish to create an account on your university's web portal using some credentials. After signing up, you also want to make sure that your account is verified.

For the given scenario, arrange the following messages in the order they would appear in a sequence diagram. The messages are given in the following format:

<< ObjectName >> : << message >>

Note: The object name here refers to the object that sends the message. Here, we assume that the student enters the correct credentials.



Arrange the cards according to the order they would appear in the sequence diagram below.

Student :
signUpInformation(credentials)

SignUpForm :
verifyInformationFormat()

SignUpForm :
signUp(credentials, profile)

AuthenticationServer :
createAccount(profile)

AuthenticationServer :
sendVerificationEmail()

Student : click verification
link

AuthenticationServer :
emailVerified = True

AuthenticationServer :
accountVerified = True

Reset

Show Solution

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MCQs

Challenge yourself by solving the following quiz questions.

6



In an activity diagram, which component combines multiple non-concurrent flows?

Your Answer



A) Merge

B) Join

C) Decision

D) Fork

Submit Answer



Question 6 of 6
6 attempted



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Activity Diagram

Next →

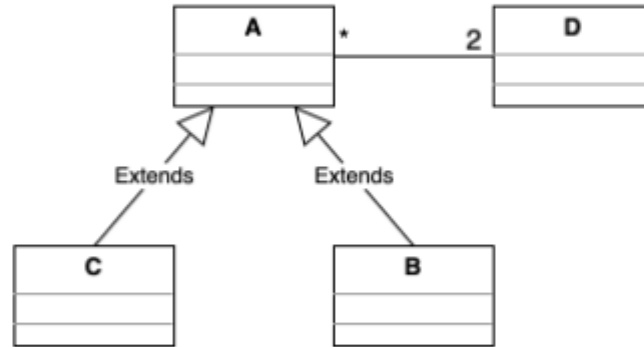
Introduction to SOLID ...



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1

Which statement about the given class diagram is *true*?



Your Answer

☒ A) There are two direct instances of **A**.

Explanation

There are no direct instances of **A**.

Correct Answer

☒ B) One object of **B** must be associated with exactly two objects of **D**.

Explanation

One object of **D** may be associated with multiple objects of **C**.

☐ C) One object of **D** cannot be associated with multiple objects of **C**.

Explanation

One object of **D** is associated with multiple objects of **A**.

☐ D) Two objects of **D** are associated with multiple objects of **A**.

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Question 1 of 6
1 attempted



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2



Which statement about class diagrams is *true*?

Your Answer



A) Every class in a class diagram must have both attributes and operations.

B) Classes always have a section showing a textual description.

Correct Answer



C) Operations may have parameters and return values.

D) All attributes in a class must have the same data type.

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Question 2 of 6
2 attempted



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3



(Select all that apply.) Which statement(s) about actors in a use case diagram is *true*?

Selected Option



A) Actors can be linked to each other by inheritance.



B) Actors communicate with other actors.

Not Selected



C) Actors can be linked to abstract and non-abstract use cases via associations.



D) Actors interact with the system in the form of <<include>> relationships.

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Question 3 of 6
3 attempted



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4

Which statement about the following use case diagram is *true*?

Your Answer

☒ A) Use case *B* can extend use case *A*.

☐ B) Use case *A* always has to invoke use case *B*.

☐ C) Use case *A* cannot be executed without use case *B*.

Correct Answer

☒ D) Use case *B* may or may not invoke use case *A*.

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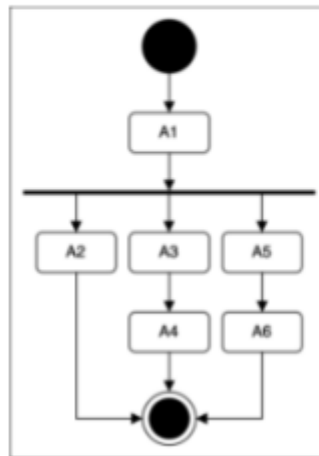
Question 4 of 6
4 attempted



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5

Consider the following activity diagram:



What one is not the correct order of action sequences that are not possible during the execution of the activity?

Your Answer

☒ A) A1 → A2

☐ B) A1 → A3 → A4

☐ C) A1 → A5 → A6

6



In an activity diagram, which component combines multiple non-concurrent flows?

Your Answer



A) Merge

B) Join

C) Decision

D) Fork

Reset Quiz ↻



Question 6 of 6
6 attempted



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