

OOSE-Winter 2020

* Required

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Your email

_____ is the stage of SDLC where the difference between the specification and the implementation is measured.

1 point

- ☐ Implementation
- ☐ Requirement Engineering
- ☐ Software Testing
- ☐ Tradeoff

Which type of requirement is used to define a design goal?

1 point

Your answer



Suppose object O in the sequence diagram sends message msg to object P, and if object O waits until other objects send messages. Which of the following type best represents message msg? Choose all which are correct. 1 point

- ☐ Synchronous
- ☐ Asynchronous
- ☐ Extends
- ☐ Return

Which of the following UML diagram is used to show the dynamics of a single object? 1 point

- ☐ sequence diagram
- ☐ activity diagram
- ☐ component diagram
- ☐ state machine

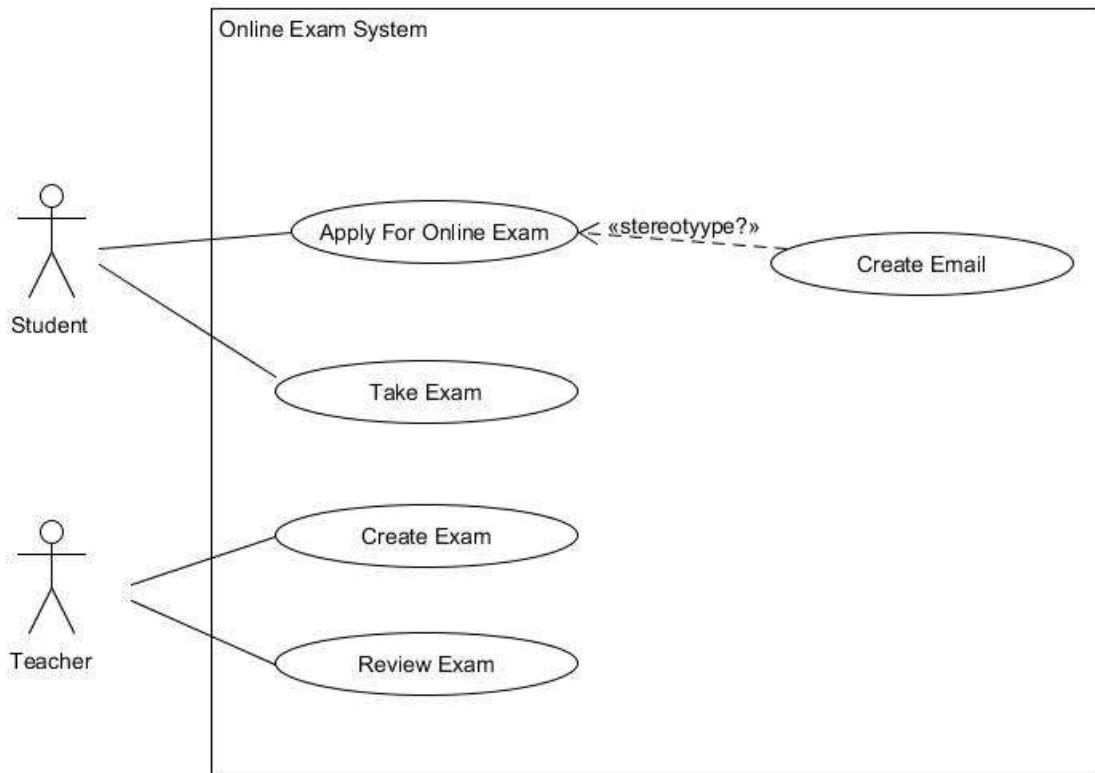
Which of the following manifest software crisis? Choose all that apply. 4 points

- ☐ missing user requirement
- ☐ delivering undesired product
- ☐ time overrun
- ☐ budget overrun



Given the use case diagram below, suppose a Student may or may not create a new email while applying for an online exam, which of the following is the correct stereotype? Choose all that apply.

1 point



- ☐ includes
- ☐ extends
- ☐ do
- ☐ uses

Which of the following is true about abstraction? Choose all that apply.

1 point

- ☐ It is about complicating idea which later should be simplified
- ☐ It is about representing only what is relevant to the system
- ☐ It is about representing a complicated idea with complex diagram
- ☐ It is about representing mysterious data in the system



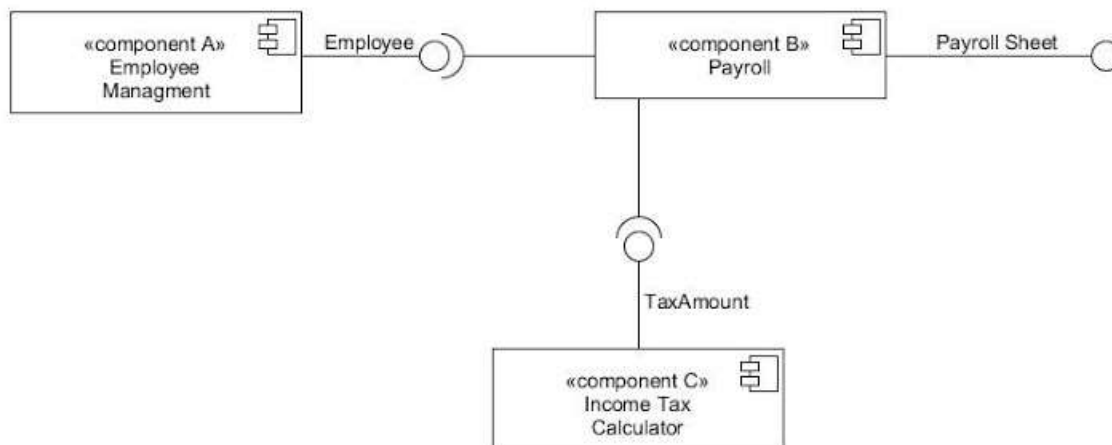
Which type of requirement is used to define the scope and objective of the software? 1 point

Your answer

An exception in a use case description can be represented as _____ in a sequence diagram? Choose all which are correct. 1 point

- ☐ Asynchronous message
- ☐ Synchronous message
- ☐ Fragment
- ☐ Aggregation

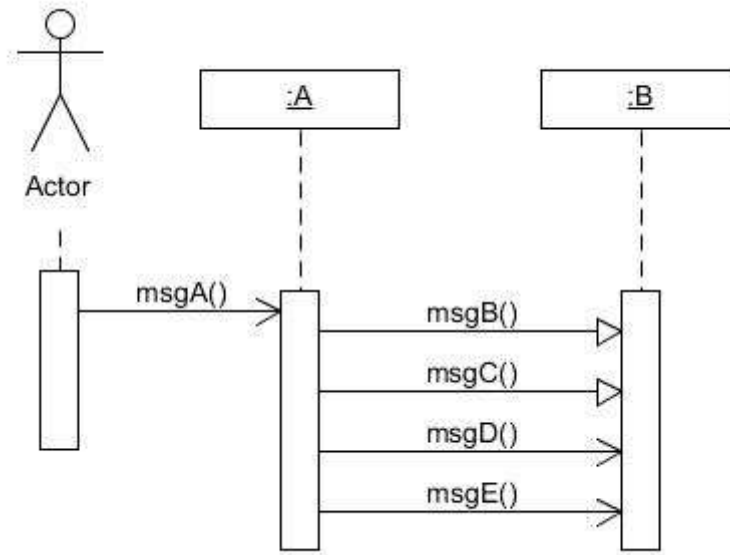
Given the component diagram in the figure below, what type of coupling exists between components A and B. 1 point



Your answer



An object identified from a use case can be an entity, control, or boundary object. In the sequence diagram given below, which type of object best represents instance :A? 1 point

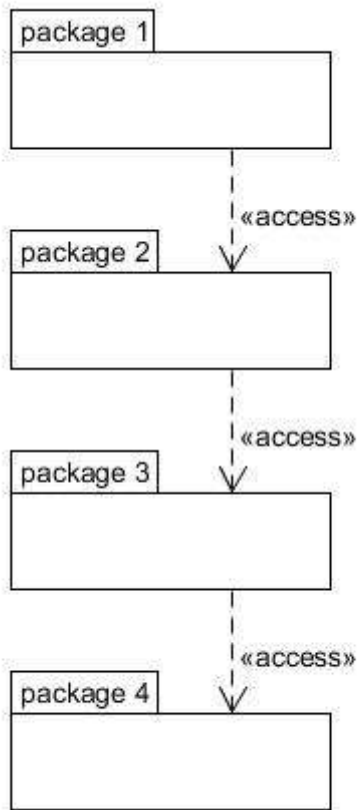


Your answer



Given the package (subsystem) diagram that shows the software architecture, which of the following architectural style is used? Choose all that apply.

2 points



- ☐ Option 5
- ☐ Closed architecture
- ☐ Open architecture
- ☐ Repository architecture
- ☐ Layered architecture

Which type of UML diagram shows the communication between objects and the messages sent between the objects?

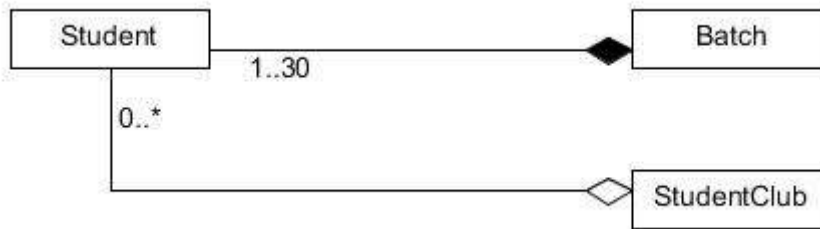
1 point

Your answer



Given the object diagram in the figure below used in a school system. Which of the following business rule holds true? Choose all which are correct.

1 point



- ☐ The student that belongs to a batch must also belong to a student club
- ☐ It is possible to admit as many students as possible in a batch
- ☐ The number of students those can be admitted in a batch is limited
- ☐ It is not possible to have a student club which has no member

Which of the following is useful to represent a tiered architecture? Choose all that apply.

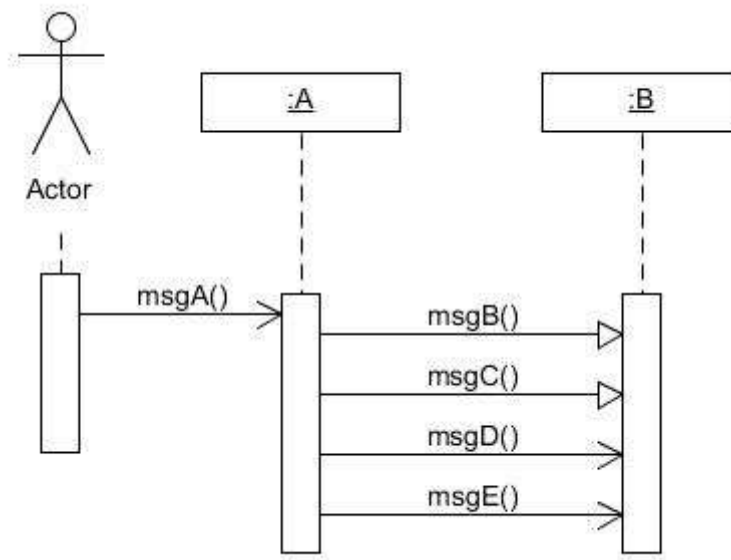
1 point

- ☐ Package diagram
- ☐ Component diagram
- ☐ Deployment diagram
- ☐ Class diagram



In the sequence diagram below, which of the message is wrongly represented?

1 point



Your answer

Why is Software Engineering an engineering discipline? Choose all that apply.

4 points

- ☐ Because it focuses in problem solving
- ☐ Because there is always a product to be produced
- ☐ Because a process is followed in solving a problem
- ☐ Because a product is the solution to the problem



Use cases can be related to one another. If use case U1 is conditionally (optionally) executes use case U2, which of the following represents the situation correctly?

1 point

- ☐ U1 extends U2
- ☐ U2 extends U1
- ☐ U1 uses U2
- ☐ U1 includes U2

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