

## ✔ Congratulations! You passed!

Grade received **100%** To pass 70% or higher

[Go to next item](#)

1. Which of the following is a characteristic of a distributed system?

1 / 1 point

- ☐ It focuses on the decomposition of a design into logical components.
- ☐ It is an interface for a database.
- ☐ It is an individual unit of encapsulated functionality.
- ☒ It contains multiple services that coordinate interactions using a communication protocol such as HTTP.

✔ **Correct**  
Correct! This is a characteristic of distributed systems.

2. Which term is best described by the statement, “entails the ability to add behavior to a component without changing other components?”

1 / 1 point

- ☐ Independent
- ☐ Encapsulation
- ☐ Reusable
- ☒ Extensibility

✔ **Correct**  
Correct! Extensibility entails the ability to add behavior to a component without changing other components.

3. True or false? A software application's architecture can be designed as both peer-to-peer and event-driven.

1 / 1 point

- ☒ True
- ☐ False

✔ **Correct**  
Correct. Peer-to-peer architecture is not mutually exclusive with an event-driven architecture.

4. Which of the following best describes a staging environment?

1 / 1 point

- ☒ It replicates the production environment, but is not intended for general users.
- ☐ It is intended for general users.
- ☐ It is for the QA team to test the application's individual components.
- ☐ It is intended for the developers to use while they are actively coding the application.

✔ **Correct**  
Correct! The staging environment replicates the production environment, but is not intended for general users.

5. What does the production environment take into account that pre-production environments do not?

1 / 1 point

- ☐ Functional requirements
- ☐ Permissions
- ☒ Load
- ☐ Buggy code

✔ **Correct**  
Correct! Pre-production environments are intended for a small group of users so do not usually have to take load into consideration.