

Quiz 1

- Due Sep 11 at 12pm
- Points 13
- Questions 13
- Available Sep 11 at 11:45am - Sep 11 at 12pm 15 minutes
- Time Limit 15 Minutes

This quiz was locked Sep 11 at 12pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	4 minutes	13 out of 13

❗ Correct answers are hidden.

Score for this quiz: 13 out of 13

Submitted Sep 11 at 11:49am

This attempt took 4 minutes.



Question 1

1 / 1 pts

In a layered architecture, which layer is responsible for handling **UI and visualization** for the end-user?

- ☒ Presentation layer
- ☐ Persistence layer
- ☐ Business layer
- ☐ Database layer



Question 2

1 / 1 pts

Which statement about MVC architecture is correct?

- ☒ Model handles data logic and interacts with the database
- ☐ View contains all data logic
- ☐ Controller handles database interactions directly
- ☐ Controller presents data to the user



Question 3

1 / 1 pts

A key characteristic of a monolithic application is:

- ☒ Single codebase with tightly coupled components
- ☐ Distributed data stores
- ☐ Independent services
- ☐ Built-in API gateways



Question 4

1 / 1 pts

In monolithic architecture, scaling a single module is typically achieved by:

- ☒ Scaling up multiple Instances of the entire Application
- ☐ Adding APIs for each module
- ☐ Splitting services into microservices
- ☐ Using container orchestration



Question 5

1 / 1 pts

Microservices architecture differs from monolithic because it:

- ☒ Splits functionality into independent, smaller services
- ☐ Packages everything into a single deployable file
- ☐ Uses one central relational database
- ☐ Avoids network calls between components



Question 6

1 / 1 pts

Which of the following is a **benefit** of microservices?

- ☒ Independent deployment and scaling
- ☐ Centralized system management
- ☐ Reduced architectural complexity
- ☐ Easier debugging



Question 7

1 / 1 pts

One common debugging challenge in microservices arises because:

- ☒ Issues often span multiple distributed services
- ☐ Logs are centralized by default
- ☐ Modules are tightly coupled in a single process
- ☐ All services use the same language



Question 8

1 / 1 pts

In microservices, each service often has:

- ☒ Its own datastore
- ☐ One shared database
- ☐ A dependency on the monolith
- ☐ No persistence layer



Question 9

1 / 1 pts

“You build it, you run it” in microservices means:

- ☒ Teams are responsible for developing and operating their services
- ☐ Centralized deployment teams run all services
- ☐ Services are deployed automatically
- ☐ Services run without monitoring



Question 10

1 / 1 pts

Which is a performance concern in microservices compared to monoliths?

- ☒ Higher network latency due to service communication
- ☐ End-to-end testing
- ☐ Centralized data storage
- ☐ Limited modularity



Question 11

1 / 1 pts

Which of the following is **true** when comparing microservices and monoliths?

- ☒ Microservices provide flexibility but require more infrastructure
- ☐ Monoliths adopt new technologies faster

- ☐ Microservices are always cheaper to operate
- ☐ Monoliths are more fault-tolerant



Question 12

1 / 1 pts

The **Controller** in MVC is responsible for:

- ☒ Handling request flow and directing logic
- ☐ Storing persistent data
- ☐ Rendering UI components
- ☐ Rendering UI components



Question 13

1 / 1 pts

Which is an **advantage** of monolithic applications?

- ☒ Simple deployment
- ☐ Flexible technology adoption
- ☐ Independent scaling of modules
- ☐ Service isolation

Quiz Score: 13 out of 13