

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