Quiz – CS07

What is a common use of the Facade pattern in software architecture?
Question 1Answer

a.

To cache frequently used data

b.

To provide a unified interface to a set of interfaces

c.

To manage user sessions

d.

To handle communication with external systems

How long does a typical Lightweight Architectural Evaluation last?
Question 2Answer

a.

6-8 hours

b.

1-2 hours

c.

4-6 hours

d.

2-4 hours

Which technique should be used to prevent SQL injection attacks?
Question 3Answer

a.

Ignoring user input

b.

Encrypting SQL queries

c.

Concatenating user input directly into SQL queries

d.

Using parameterized SQL queries

What is one of the benefits of using a cache for frequently accessed data?
Question 4Answer

a.
Reduced response time for data retrieval

b.
Reduced data security

c.
Increased load on the database

d.
Increased complexity in data management

Feedback

The correct answer is: Reduced response time for data retrieval

What does the Utility Tree help to identify in the ATAM process?
Question 5Answer

a.
Business drivers

b.
Quality attributes

c.
Scenarios and their priorities

d.
Architectural approaches

Feedback

The correct answer is: Quality attributes

Which type of session bean allows multiple instances to handle requests?
Question 6Answer

a.
Stateful session bean

b.
Entity bean

c.
Stateless session bean

d.
Session bean

Feedback

The correct answer is: Stateless session bean

Which phase of ATAM involves presenting the architecture?
Question 7Answer

a.
Step 5

b.
Step 1

c.
Step 3

d.
Step 7

What is the purpose of logging in software development?
Question 8Answer

a.
To manage user sessions

b.
To increase application speed

c.
To offer quick debugging and structured storage of runtime information

d.
To handle asynchronous communication

What is the first step in the ATAM process?
Question 9Answer

a.
Present the Architecture

b.
Present Business Drivers

c.
Present the ATAM

d.
Analyze Architectural Approaches

What is the primary objective of using the Architecture Tradeoff Analysis Method (ATAM)?

Question 10Answer

a.

To evaluate architectural trade-offs and quality attributes

b.

To develop detailed design documents

c.

To finalize software design

d.

To write code and test functionality

Feedback

The correct answer is: To evaluate architectural trade-offs and quality attributes