

# Backend developer screening quiz

 Test duration: 45 minutes  Difficulty level: **Moderate**



## 1. Why might you choose REST over SOAP for an API?

- A) REST uses HTTP methods and is generally simpler
- B) REST is more secure
- C) SOAP requires less bandwidth
- D) SOAP is faster

**Correct answer:** A) REST uses HTTP methods and is generally simpler

## 2. When might a NoSQL database be preferred?

- A) Handling complex transactions
- B) For dynamic, flexible schemas and large data sets
- C) When using SQL queries
- D) When strict consistency is needed

**Correct answer:** B) For dynamic, flexible schemas and large data sets

## 3. What is a common benefit of caching?

- A) Faster disk access
- B) Reduces the need for data redundancy
- C) Speeds up response times by storing frequent data
- D) Simplifies database architecture

**Correct answer:** C) Speeds up response times by storing frequent data

## 4. Why use a message queue?

- A) To manage synchronous communication
- B) To handle and scale asynchronous tasks
- C) To store data temporarily
- D) To bypass database connections

**Correct answer:** B) To handle and scale asynchronous tasks

## 5. When would microservices be advantageous?

- A) When minimizing network traffic
- B) When scalability and independent service deployment are needed
- C) For simple, small-scale applications
- D) When you want to minimize services

**Correct answer:** B) When scalability and independent service deployment are needed

## 6. What's a key reason to use OAuth?

- A) For session management
- B) To securely handle third-party access without sharing passwords
- C) To compress data
- D) For load balancing

**Correct answer:** B) To securely handle third-party access without sharing passwords

## 7. What is CAP theorem about?

- A) A trade-off between Consistency, Availability, and Partition tolerance
- B) A way to optimize query performance
- C) A principle for securing APIs
- D) A method for designing RESTful services

**Correct answer:** A) A trade-off between Consistency, Availability, and Partition tolerance

## 8. What role does Docker play?

- A) Network management
- B) Creating isolated environments for applications
- C) Managing cloud resources
- D) Version control

**Correct answer:** B) Creating isolated environments for applications

## 9. Why consider event-driven architecture?

- A) For synchronous processing
- B) For loosely coupled systems that respond to changes independently
- C) To maintain strict consistency
- D) To minimize resource use

**Correct answer:** B) For loosely coupled systems that respond to changes independently

## 10. What's crucial in designing a REST API?

- A) Maximizing data transmission
- B) Using proper HTTP methods and keeping the API stateless
- C) Adding as many endpoints as possible
- D) Integrating SOAP features

**Correct answer:** B) Using proper HTTP methods and keeping the API stateless