DESIGN PATTERNS IN MICROSERVICES
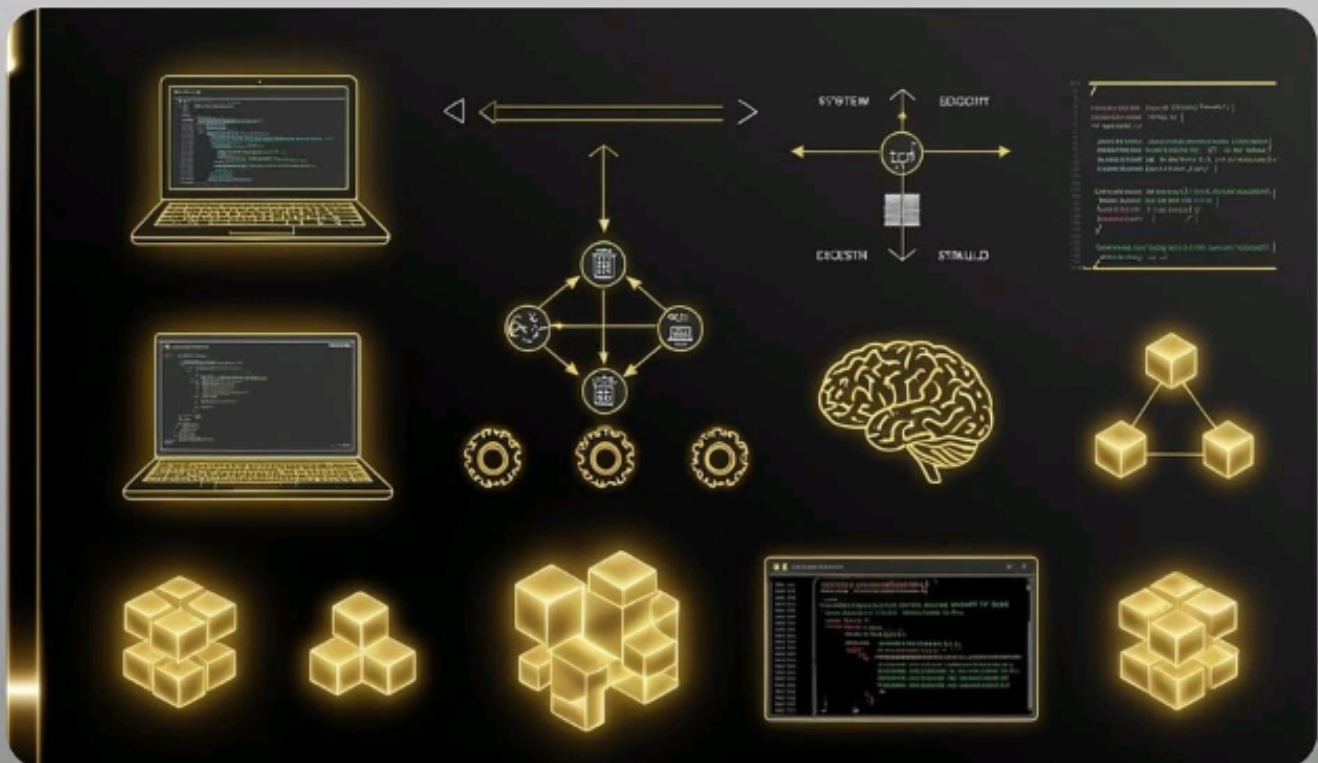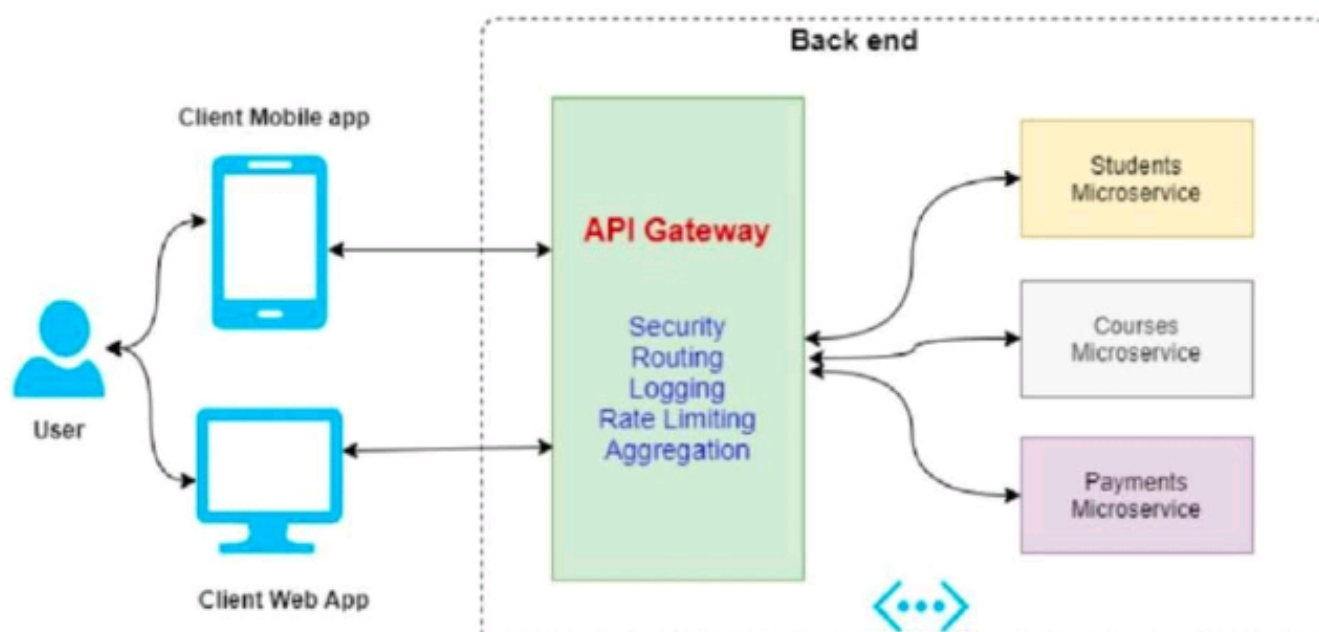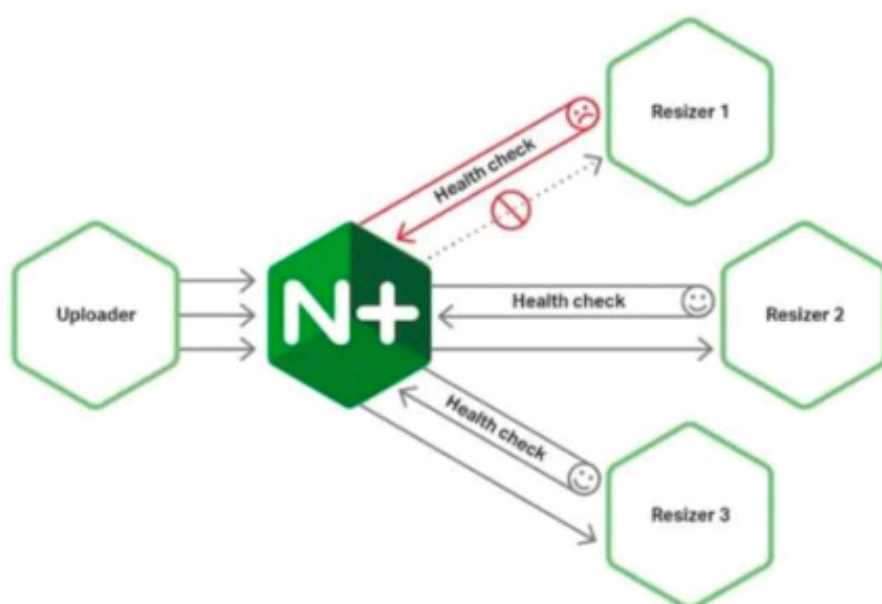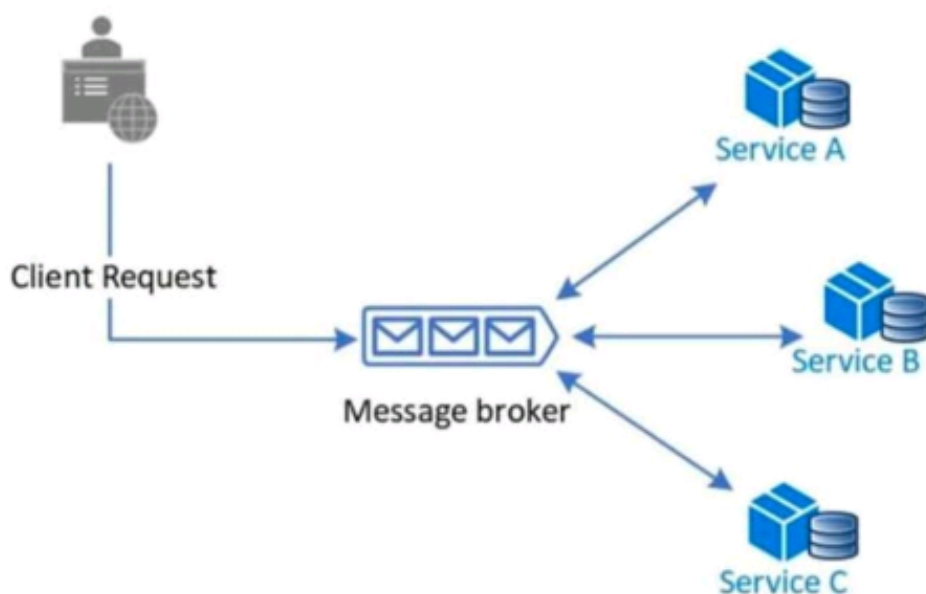
FOR JAVA & SPRING BOOT INTERVIEWS

GATEWAY PATTERN

Use an API Gateway to handle client requests and route them to the appropriate microservices.This centralized authentication, load balancing, and routing logic.

CIRCUIT BREAKER PATTERN

Prevent cascading failures by using a circuit breaker that can temporarily stop requests to a failing service and provide fallback mechanisms.

SAGA PATTERN

Client Request

Message broker

Service A

Service B

Service C

Manage long-lived transactions across multiple microservices by breaking them down into a sequence of smaller, local transactions.

Java Frameworks
Interview Preparation Bundle

Problem:

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Solution:

- We arranged framework + microservices + system design questions based on recent interviews.
- Helps you explain real-time architecture with clarity in Technical Round 2.

You Get:

- ⊘ Spring Boot & Spring Core
- ⊘ Spring Security & JPA/Hibernate
- ⊘ REST APIs & Microservices
- ⊘ Design Patterns & System Design Scenarios
- ⊘ Distributed systems & scalability

1. Spring Core Framework FAQs

2. Spring Boot Q & A Final

3. Spring Security FAQs

4. Spring & Spring Boot Scenario-Based FAQs, Annotations & Code Snippets

5. JPA & Hibernate Interview

6. REST APIs Q & A
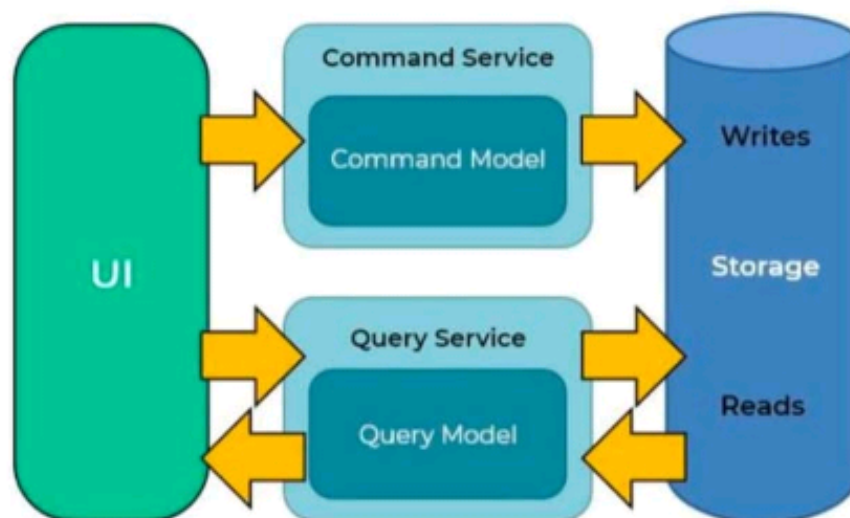
7. Microservices Q & A

8. Design Patterns Q & A

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《 SWIPE 》

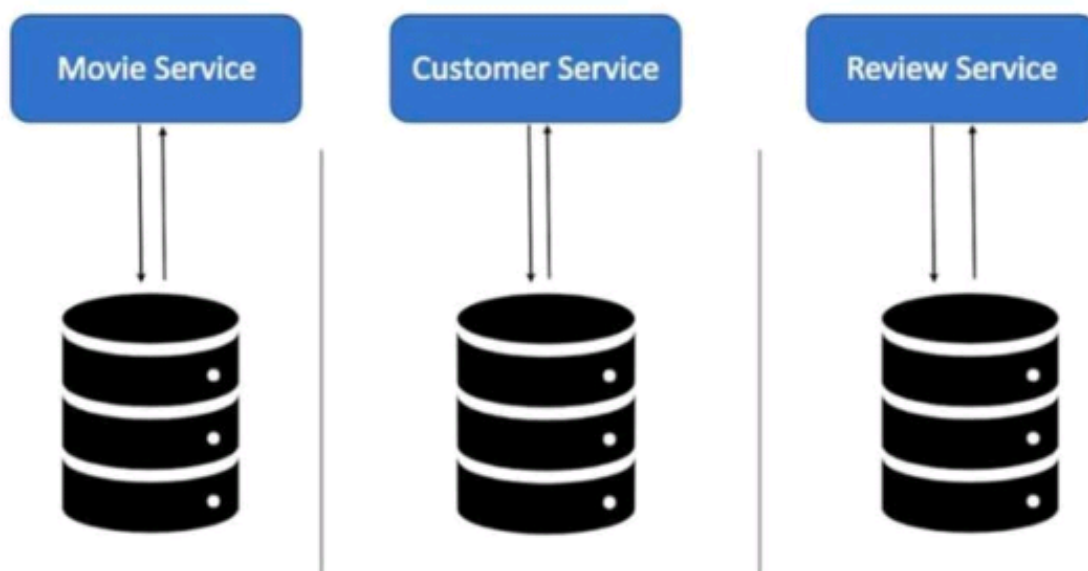# CQRS PATTERN

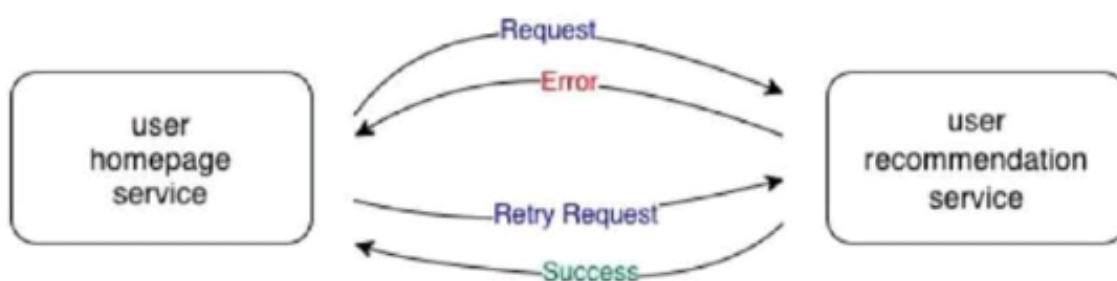**Separate the read and write responsibilities of a system, allowing for optimized performance and scalability.**

DATABASE PER SERVICE PATTERN

Movie Service   Customer Service   Review Service

Each microservice has its own dedicated database to ensure loose coupling and autonomy.

RETRY PATTERN

Automatically retry failed operations to improve the chances of success.

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CRACK YOUR JAVA INTERVIEW SPRING CORE	CRACK YOUR JAVA INTERVIEW SPRING BOOT	CRACK YOUR JAVA INTERVIEW SPRING SECURITY	SCENARIO-BASED FAQS, ANNOTATIONS & CODE SNIPPETS SPRING & SPRING BOOT
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CRACKING YOUR JPA & HIBERNATE INTERVIEW	CRACKING YOUR REST API INTERVIEW	CRACKING YOUR MICROSERVICES INTERVIEW	CRACKING YOUR DESIGN PATTERNS INTERVIEW
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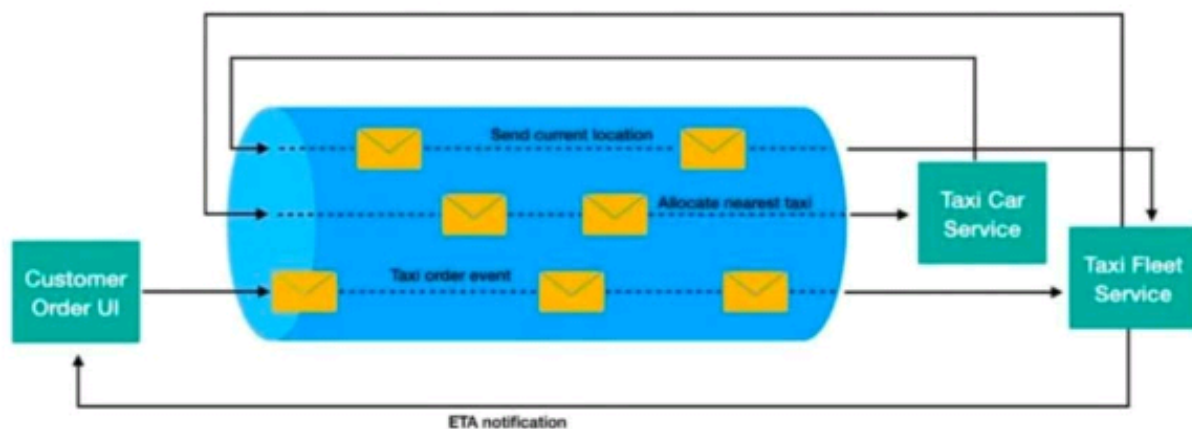## COMMENT "JAVA" TO ACCESS THIS FOLDER 📁🔥

《 SWIPE 》

LEADER ELECTION PATTERN

Designate a leader among instances of a microservice for tasks like coordination and decision-making.

EVENT-DRIVEN ARCHITECTURE PATTERN

Communicate between microservices through events, enabling loose coupling and scalability.

SIDECAR PATTERN

Microservice →

← Sidecar peripheral components like logging, configuration, etc.

Attach a separate microservice (sidecar) to handle specific tasks like monitoring, logging, or authentication.

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CRACK YOUR JAVA INTERVIEW SPRING SECURITY

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