

Spring Boot & Microservices

Explain the flow of a REST API call from frontend to backend and back.

What is Spring Security?

What is JWT, and how is it used in microservices authentication?

How would you set up a discovery server like Eureka?

What is the default server in Spring Boot, and how to use another server?

What are Spring Boot profiles, and how do you use them?

How is bean injection handled in Spring?

How to inject a specific bean when multiple beans of the same type exist?

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Spring Boot & Microservices

What is Spring Boot, and how does it differ from the traditional Spring framework?

Explain the concept of Dependency Injection in Spring.

What are Spring Boot Profiles, and how are they used?

Explain the role of @Component, @Service, and @Repository annotations in Spring.

What is Spring Security, and how is it implemented in a Spring Boot application?

Explain the concept of Spring Boot Actuator.

What is the role of @SpringBootApplication annotation?

How do you handle exception management in Spring Boot?

What is a Circuit Breaker, and how is it implemented in Spring Boot?

Explain the concept of Spring Boot Auto-Configuration.

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Spring Boot & Microservices

Spring Boot Overview: What is Spring Boot, and how does it differ from the traditional Spring framework?

Dependency Injection: Explain the concept of Dependency Injection in Spring.

Spring Boot Profiles: What are Spring Boot Profiles, and how are they used?

Annotations in Spring: Explain the role of @Component, @Service, and @Repository annotations in Spring.

Spring Security: What is Spring Security, and how is it implemented in a Spring Boot application?

Spring Boot Actuator: Explain the concept of Spring Boot Actuator.

Auto-Configuration: What is the concept of Spring Boot Auto-Configuration?

Exception Handling: How do you handle exception management in Spring Boot?

Circuit Breaker: How is a Circuit Breaker implemented in Spring Boot?

Microservices Authentication: How do microservices authenticate each other in a Spring Boot application?

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Spring Boot Profiles: What are Spring Boot profiles, and how are they used to externalize configurations?

@Primary Annotation: What is the use of the @Primary annotation in Spring?

Discovery Server: How do you set up a discovery server like Eureka in a Spring Boot application?

Microservices Authentication: How do microservices authenticate each other in a Spring Boot environment?

Default Server: Which server comes by default with Spring Boot, and how can you configure a different server?

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Spring Boot Overview: What is Spring Boot, and what are its advantages?

Spring Boot Actuator: What is Spring Boot Actuator, and what are its features?

Exception Handling in Spring Boot: How do you handle exceptions in Spring Boot?

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Spring Boot Profiles: What are Spring Boot profiles, and how are they used to externalize configurations?

@Primary Annotation: What is the use of the @Primary annotation in Spring?

Discovery Server: How do you set up a discovery server like Eureka in a Spring Boot application?

Microservices Authentication: How do microservices authenticate each other in a Spring Boot environment?

Default Server: Which server comes by default with Spring Boot, and how can you configure a different server?

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What is dependency injection in Spring?

Explain the difference between @Component, @Service, and @Repository.

How does Spring Boot simplify application development?

What are Spring profiles, and how are they used?

Explain the concept of microservices and how Spring Boot supports them.

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Spring Boot & Microservices

Spring Boot Basics: What is Spring Boot?

Profiles: What are profiles in Spring Boot and how are they used?

Bean Injection: How does bean injection work in Spring?

@Primary Annotation: What is the use of the @Primary annotation in Spring?

Microservices Architecture: Explain the microservices architecture and how Spring Boot facilitates it.

JWT Authentication: How is JWT used for authentication in microservices?

Circuit Breaker: How is a circuit breaker implemented in Spring Boot?

Discovery Server: How would you set up a discovery server like Eureka?

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What is Spring Boot and what are its advantages?

What is Spring Boot Actuator and what are its features?

What is the use of the @Primary annotation in Spring Boot?

What is the use of @Profile in Spring Boot?

What is the use of the @Value annotation?

How does @Autowired work in Spring Boot?

What is the difference between @Bean and @Component?

What is the difference between @RequestMapping, @GetMapping, and @PostMapping?

What is the difference between @PathVariable and @RequestParam?

What is the use of @ExceptionHandler in Spring Boot?

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What is Spring Boot and what are its advantages?

Explain the concept of Dependency Injection in Spring.

What is the use of @Autowired annotation in Spring?

What is the difference between @Component, @Service, and @Repository annotations?

What is Spring Boot Actuator and what are its features?

Explain the concept of Spring Boot profiles.

What is the use of @Primary annotation in Spring?

How does Spring Boot handle exception handling?

What is the difference between @RequestMapping, @GetMapping, and @PostMapping?

What is the role of @PathVariable and @RequestParam in Spring MVC?

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Explain Spring Security.

What is JWT and how is it used in authentication?

Explain the flow of a REST API call from frontend to backend and response back to frontend.

What are profiles in Spring Boot and how to use them?

How to set up a discovery server like Eureka?

What is the default port of Spring Boot?

Explain bean injection in Spring.

How to inject a specific bean of the same type?

What is @Primary annotation?

How to externalize a microservice?=====

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Spring Boot Basics (1–25)

What is Spring Boot and why is it used?

Difference between Spring and Spring Boot.

Explain @SpringBootApplication.

Difference between @Component, @Service, @Repository, and @Controller.

What is @Primary annotation?

Difference between @Component and @Bean.

How to run Spring Boot app on a specific port?

Difference between application.properties and application.yml.

How to handle exceptions globally?

Difference between @Controller and @RestController.

Explain dependency injection in Spring Boot.

How does @Autowired work?

Difference between @RequestParam and @PathVariable.

What are Spring Boot starters?

Explain @Value annotation.

Difference between @RequestMapping and @GetMapping/@PostMapping.

How to secure Spring Boot REST APIs?

How to implement validation with @Valid and @Validated.

Explain Spring Boot actuator and its endpoints.

How to enable CORS in Spring Boot?

Difference between lazy and eager initialization in Spring Boot.

How to implement logging in Spring Boot?

How to manage multiple environments (dev, test, prod)?

Difference between @Transactional propagation types.

How to implement caching in Spring Boot?

Spring Boot Advanced (26–50)

How to connect Spring Boot with multiple databases?

Difference between @RequestBody and @ModelAttribute.

How to use Spring Boot Profiles?

Explain Spring Boot AutoConfiguration.

How to schedule tasks in Spring Boot?

How to implement exception handling in REST API?

Explain the difference between ResponseEntity and returning POJO.

How to configure logging levels in Spring Boot?

Difference between @EnableAutoConfiguration and @SpringBootApplication.

How to implement health check endpoints?

How to implement property placeholder in Spring Boot?

How to externalize configuration?

Explain Spring Boot DevTools.

How to configure embedded Tomcat server?

How to implement file upload in Spring Boot?

How to implement file download in Spring Boot?

How to enable HTTPS in Spring Boot?

Difference between `@ControllerAdvice` and `@RestControllerAdvice`.

Explain Spring Boot metrics.

How to create custom starter in Spring Boot?

How to implement batch processing in Spring Boot?

Difference between `CommandLineRunner` and `ApplicationRunner`.

How to enable scheduling tasks using `@Scheduled`?

How to handle validation errors in Spring Boot?

How to implement pagination in Spring Boot REST APIs?

Microservices Basics (51–75)

What is microservices architecture?

Difference between monolithic and microservices.

Explain service discovery.

What is Eureka Server and Eureka Client?

How does load balancing work?

Explain API Gateway.

What is Spring Cloud Config?

Explain circuit breaker pattern.

What is Hystrix?

How to implement inter-service communication?

What is Feign Client?

How to implement fault tolerance?

What is distributed tracing?

How to handle distributed transactions?

Explain JWT authentication in microservices.

Difference between synchronous and asynchronous communication.

How to implement rate limiting?

How to handle retries in microservices?

How to implement caching in microservices?

How to secure microservices using OAuth2?

How to monitor microservices?

What is Zipkin / Sleuth?

Explain microservices logging strategy.

Difference between service registry and discovery server.

How to implement messaging with Kafka / RabbitMQ?

Advanced Microservices (76–100)

How to containerize microservices using Docker?

How to deploy microservices using Kubernetes?

How to implement API versioning?

How to implement backward compatibility in APIs?

How to handle rate limiting using Spring Cloud Gateway?

Explain client-side vs server-side load balancing.

How to implement authentication and authorization in microservices?

How to implement centralized configuration for microservices?

Difference between synchronous REST calls and asynchronous messaging.

How to implement service-to-service communication?

How to implement distributed caching?

Explain sidecar pattern in microservices.

How to handle partial failures?

How to implement canary deployment?

How to implement blue-green deployment?

How to implement health checks for microservices?

How to implement fallback methods with Hystrix / Resilience4j?

How to implement dynamic scaling for microservices?

How to implement API throttling?

How to implement event-driven microservices?

How to implement saga pattern for distributed transactions?

How to implement idempotent operations in microservices?

How to monitor microservices performance?

How to handle versioning of database schemas in microservices?

What are the best practices for building production-ready microservices?