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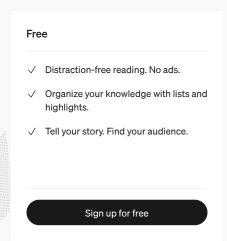


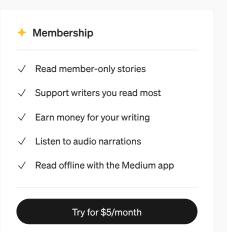
Java + Spring Boot Interview Questions Real Experience

- 1. Internal working of HashMap in Java HashMap uses an array of buckets. Each bucket holds a linked list (or red-black tree from Java 8 onward). The key's hashCode() determines the bucket index. If two keys collide, they are stored in a list/tree at that index. Retrieval uses equals() to find the exact key.
- 2. Convert HashMap to ArrayList Map<String, String> map = new HashMap<>(); List<Map.Entry<String, String>> list = new ArrayList<> (map.entrySet());
- 3. Using custom class as HashMap key Override both hashCode() and equals() methods properly in your class to ensure correct bucket placement

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6. Exception handling in Spring Boot Use @ControllerAdvice with @ExceptionHandler to centralize exception handling. For REST APIs, return proper HTTP responses with custom error messages.

7. Use JBoss instead of embedded Tomcat in Spring Boot

Package your app as a WAR (spring-boot-starter-tomcat as provided). Deploy WAR to JBoss server.

Use SpringBootServletInitializer in your main class.

8. Difference between @Bean and @Component

@Component: autodetected by component scanning. @Bean: explicitly defined in a @Configuration

class more control over object creation.

9. spring-boot-starter-parent purpose It simplifies dependency management, provides default plugin configs, and helps maintain consistent versions across modules.

10. Create + Secure REST APIs in Spring Boot

Use @RestController + @RequestMapping.

Secure with Spring Security + JWT, OAuth2, or Basic Auth.

11. @RestController vs @Controller @RestController = @Controller + @ResponseBody returns JSON/XML.

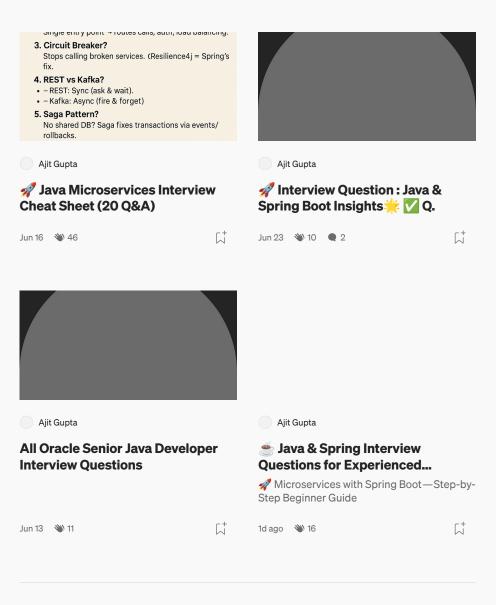
Use @Controller when rendering views (like Thymeleaf).

12. REST API Best Practices



Use nouns in URLs (/users, not/getUsers) Proper HTTP methods (GET, POST, PUT, DELETE) Status codes, pagination, versioning (/api/v1/), JWT auth 13. Microservices Communication Yes, via: RestTemplate WebClient (Reactive) Message Brokers (Kafka, RabbitMQ) Feign Clients (with Spring Cloud) 14. Rest Template in Microservices Rest Template restTemplate = new RestTemplate(); ResponseEntity<String> response = restTemplate.getForEntity("http://service/api", String.class); 15. Design Patterns in Microservices Circuit Breaker (Resilience4j/Hystrix) API Gateway Service Discovery (Eureka) Retry, Bulkhead, Strangler, Saga Written by Ajit Gupta Follow 165 followers · 208 following No responses yet 0 Write a response What are your thoughts?

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