## 65 Spring Framework interview questions to ask developers

## Questions

- 1. Can you explain the core principles of Dependency Injection in Spring?
- 2. How does Spring Boot differ from the traditional Spring framework?
- 3. What is the Spring MVC framework and how does it work?
- 4. Explain the concept of AOP (Aspect-Oriented Programming) in Spring.
- 5. How does Spring handle database transactions?
- 6. What is Spring Security and how would you implement basic authentication in a Spring application?
- 7. How does Spring support testing, and what are some best practices for testing Spring applications?
- 8. Can you explain the concept of profiles in Spring and how they are used?
- 9. What is Inversion of Control in Spring and how does it work?
- 10. Explain the difference between @Component, @Service, and @Repository annotations.
- 11. How do you configure a data source in Spring?
- 12. What is the purpose of the @Autowired annotation?
- 13. Describe the lifecycle of a Spring Bean.
- 14. How do you handle exceptions in Spring MVC?
- 15. What is the role of DispatcherServlet in Spring MVC?
- 16. Explain the concept of Spring Bean Scopes.
- 17. How do you implement caching in a Spring application?
- 18. What is the difference between @RequestParam and @PathVariable annotations?
- 19. How do you schedule tasks in Spring?
- 20. Explain the purpose of the @Configuration annotation.
- 21. What is the role of ViewResolver in Spring MVC?
- 22. How do you implement validation in Spring?
- 23. What is the difference between constructor injection and setter injection?
- 24. How do you handle cross-origin requests in Spring?
- 25. Explain the concept of Spring Boot Actuator.
- 26. What is the purpose of the @Transactional annotation?
- 27. How do you implement logging in a Spring application?
- 28. Describe the steps to create a simple RESTful web service using Spring Boot.
- 29. How do you use the @Qualifier annotation in Spring?
- 30. What is the role of PropertyPlaceholderConfigurer in Spring?
- 31. How does Spring support internationalization (i18n)?
- 32. What is the difference between @Controller and @RestController in Spring MVC?
- 33. How do you manage application properties in Spring Boot?
- 34. Explain the concept of Spring Data JPA.
- 35. What are the benefits of using Spring's @Scheduled annotation?
- 36. How does Spring Boot simplify dependency management?
- 37. What is a Spring Boot Starter and why is it useful?38. How do you handle application events in Spring?
- 39. Can you explain the concept of Inversion of Control (IoC) container in Spring?
- 40. What is the difference between BeanFactory and ApplicationContext?
- 41. How does Spring's IoC container manage bean lifecycles?
- 42. Explain the difference between singleton and prototype bean scopes.
- 43. What is the purpose of the @Autowired annotation and how does it work?
- 44. How does Spring handle circular dependencies between beans?45. What is the role of BeanPostProcessor in Spring?
- 44 Fundain the difference between constructor initial
- 46. Explain the difference between constructor injection and setter injection in Spring.
  47. What is the purpose of the @Value annotation in Spring?
- 48. How does Spring support internationalization?
- 49. What is the difference between @Component and @Bean annotations?

to an increase in traffic?

application in production?

- 50. Explain the concept of method injection in Spring and when you might use it.
- 51. What is Dependency Injection and why is it important in Spring?
- 52. Can you explain the difference between field injection and constructor injection?
- 53. How do you define a dependency injection configuration in Spring?
- 54. What is the purpose of the @Autowired annotation in Spring?
- 55. What are some common issues you might encounter with dependency injection in
- Spring, and how do you resolve them?

  56. How does Spring handle dependency injection for prototype-scoped beans?
- 57. What is a bean post-processor, and how does it relate to dependency injection?
- 59. How would you handle a situation where a Spring application starts to slow down due

58. Can you explain how to manage dependencies between beans in a Spring application?

- 60. If you needed to integrate a third-party API into a Spring application, how would you
- approach this task?
  61. How would you manage application properties for different environments (e.g.,
- development, testing, production) in a Spring Boot application?

  62. How would you approach debugging a Spring application that is throwing a runtime
- exception but the logs are not providing enough information?

  63. Describe a situation where you had to implement a new feature in a legacy Spring
- application. How did you ensure compatibility and minimal disruption?

  64. How would you handle a situation where a Spring application's database connection
- pool is exhausted, leading to failed requests?

  65. How would you approach monitoring the health and performance of a Spring Boot