**Topics to be prepared for the interview….**

**Previous Project details**

Q1. What is the last project you were working on….

Ans: we must know the details about the architecture. We must know which technology we used on layers (Front end, Controller, Service, Dao). How these things were communicating. We must know the flow of one or more use cases to explain the application.

The interviewer may ask about the deployed design patterns on each layer. For example, he may ask about Builder, Factory, Adapter at this stage.

After having satisfactory discussion there will be possible follow up questions

Q2. Why you used this…. Was this the only technology stack available?

**Core Java**

Q1. What is the difference between Jdk ,jre , jvm.

Q2. What is the difference between String, StringBuilder, StringBuffer.

Q3. What are immutable objects.

Q4. How can we make immutable object?

Q5. What is Stack and Heap memory

Q6. What is polymorphism give some real case example.

Q7. What is inheritance give some real case example.

Q8. What is overloading and overriding explain with examples

Q9. What is the difference between Association, composition, aggregation

Q10. What is the difference between Abstraction and Encapsulation.

Q11. What are the methods in Object class and give the use of each method.

Q12. What is the contract between equals and hashCode?

Q13. What is the difference between “==” sign and equals method.

**Collections**

Q1. what is difference between Collections and Collection?

Q2. What are the major interfaces in collection framework?

Q3. What are the implementations of each interface in Collection framework.

Q4. What is the difference between ArrayList and LinkList.

Q5. What is the difference between ArrayList and Vector.

Q6. How values are stored in LinkList internally.

Q7. What is HashSet and how it stores value internally.

Q8. What is the difference between TreeSet and HashSet?

Q9. What is the difference between ArrayList and HashSet.

Q10. What is the difference between HashSet and LinkedHashSet?

Q11. What is Map interface in the collections?

Q12. What is the HashMap and how it internally stores the value?

Q13. How we can sort the HashMap. Explain the sorting of HashMap on the basis of Keys as well values.

Q14. What are Comparable and Comparator interfaces.

Q15. How the keys are stored in the HashMap if the hash code is same?

Q16. What is the difference between HashMap and Sorted Map?

Q17. What is the difference between TreeMap and TreeSet?

Q18. What is the difference between HashMap and ConcurrentHashMap?

Q19. What is the difference between HashMap and LinkedHashMap?

Q20. What is the difference between Hashtable and HashMap?

Q21.What is the difference between failsafe and failfast iterators.

Q22. What is the difference between iterators and enumerators?

**Multithreading**

Q1. What is synchronization and concurrency?

Q2. What are the different ways to create a thread?

Q3. What is the difference between wait and sleep methods?

Q4. What is the join method?

Q5. What is the notify() and notifyAll()?

Q6. What is the lifecycle stages of a thread?

Q7. What is the critical section?

Q8. What is deadlock?

Q9. How can we create deadlock? Write a code?

Q10. How can we avoid deadlock?

**New Features of Java8**

Q1. What are functional interface?

Q2. What was the need for functional interfaces?

Q3. What is “::” operator ?

Q4. What is Lambda function?

Q5. What are Streams?

Q6. What are intermediate operation in the Streams?

Q7. What are the terminal operation?

**Spring**

1. [What is Spring Framework?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-overview)
2. [What are some of the important features and advantages of Spring Framework?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-advantages)
3. [What do you understand by Dependency Injection?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#dependency-injection)
4. [How do we implement DI in Spring Framework?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-dependency-injection)
5. [What are the benefits of using Spring Tool Suite?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-tool-suite)
6. [Name some of the important Spring Modules?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-modules)
7. [What do you understand by Aspect Oriented Programming?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#aspect-oriented-programming)
8. [What is Aspect, Advice, Pointcut, JointPoint and Advice Arguments in AOP?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#aspect-advice-pointcut-joinpoint)
9. [What is the difference between Spring AOP and AspectJ AOP?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-vs-aspectj)
10. [What is Spring IoC Container?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-ioc-container)
11. [What is a Spring Bean?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-bean)
12. [What is the importance of Spring bean configuration file?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-bean-configuration-file)
13. [What are different ways to configure a class as Spring Bean?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-bean-configuration)
14. [What are different scopes of Spring Bean?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-bean-scopes)
15. [What is Spring Bean life cycle?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-bean-life-cycle)
16. [How to get ServletContext and ServletConfig object in a Spring Bean?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#servlet-context-config-spring-bean)
17. [What is Bean wiring and @Autowired annotation?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#bean-wiring-autowiring)
18. [What are different types of Spring Bean autowiring?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#bean-autowire-types)
19. [Does Spring Bean provide thread safety?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-bean-thread-safety)
20. [What is a Controller in Spring MVC?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-controller-bean)
21. [What’s the difference between @Component, @Repository & @Service annotations in Spring?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#component-vs-controller-vs-service-vs-repository)
22. [What is DispatcherServlet and ContextLoaderListener?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#DispatcherServlet-ContextLoaderListener)
23. [What is ViewResolver in Spring?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-ViewResolver)
24. [What is a MultipartResolver and when its used?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#MultipartResolver)
25. [How to handle exceptions in Spring MVC Framework?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-mvc-exceptions)
26. [How to create ApplicationContext in a Java Program?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#java-ApplicationContext)
27. [Can we have multiple Spring configuration files?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#multiple-context-files)
28. [What is ContextLoaderListener?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#ContextLoaderListener)
29. [What are the minimum configurations needed to create Spring MVC application?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-mvc-hello-world)
30. [How would you relate Spring MVC Framework to MVC architecture?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-mvc-architecture)
31. [How to achieve localization in Spring MVC applications?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-localization-i18n)
32. [How can we use Spring to create Restful Web Service returning JSON response?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-restful-json)
33. [What are some of the important Spring annotations you have used?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-annotations)
34. [Can we send an Object as the response of Controller handler method?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-object-response)
35. [How to upload file in Spring MVC Application?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-mvc-file-upload)
36. [How to validate form data in Spring Web MVC Framework?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-mvc-form-validation)
37. [What is Spring MVC Interceptor and how to use it?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-mvc-interceptors)
38. [What is Spring JdbcTemplate class and how to use it?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-jdbc-JdbcTemplate)
39. [How to use Tomcat JNDI DataSource in Spring Web Application?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-tomcat-jndi-DataSource)
40. [How would you achieve Transaction Management in Spring?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-transaction-management)
41. [What is Spring DAO?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-DAO)
42. [How to integrate Spring and Hibernate Frameworks?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-hibernate-integration)
43. [What is Spring Security?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-security)
44. [How to inject a java.util.Properties into a Spring Bean?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-properties-inject)
45. [Name some of the design patterns used in Spring Framework?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-design-patterns)
46. [What are some of the best practices for Spring Framework?](https://www.journaldev.com/2696/spring-interview-questions-and-answers#spring-best-practices)

**Spring Boot and Spring cloud**

Q1. What is spring Boot?

Q2. What are Starter Projects

Q3. What is the use of Starter Projects?

Q4. What is Spring Cloud?

Q5. What is Eureka Server?

Q6. What is Eureka Service Registry?

Q7. What Eureka Service discovery?

Q8. How Load Balancing is done in the Spring Cloud?

Q9. What is Hystrix?

Q10. What is Zuul Proxy in spring cloud.

Best URL for learning Spring cloud

http://javainuse.com/spring/spring\_eurekaregister