**Renault Interview Prep.**

* **Knowledge of Spring/Spring Boot/ Security/ JWT/ Dependencies/ Major Annotations**
* **Experience in Hibernate/ORM framework /Association mappings/ annotations**
* **Experience in design patterns /SOLID/ with example**
* **Knowledge of Core Java and Java 8 - all new features**
* **Knowledge of Webservices & Microservices / configuration/ interaction/ security/ syncronous & Ansynchronous call**
* **Knowledge of SQL queries / examples/ fins max . second max, join, subquesries**

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1. brief about yourself
2. what all collection you used
3. arraylist and linkedlist -scenario
4. which will be ideal for which situation
5. final finally finalize
6. throw & throws with an example
7. checked and unchecked exceptions.
8. what are the OOPs concepts you have implemented.
   1. 2 types of polymorphism and explain them.
   2. How to achieve runtime polymorphism
   3. How to perform overriding.
9. Java 8 features , why and when they are used.
   1. What is function interface.
   2. What is an Optional class
10. Have you worked with multithreading
    1. Can you explain dead-lock
    2. What is Thread.join()
11. Advantages of Spring boot over Spring.
12. Starter dependencies you have used.
13. Which dependencies which we will use for spring database connection
14. Are you aware of spring boot Actuator
15. Dependencies to be added to implement Security for spring boot.
16. Dispatcher Servlet
17. What are the annotation used to create an entity class.
18. Association mapping annotation @JoinColumn
19. In parent class what you specify , to make association (mappedBy)
20. Diff between Put and Post
21. Scenario for patch method
22. @Controller and @RestController
23. What is Spring data
24. What you understand by auto-configuration by spring boot.
25. In case if we want to exclude any configuration in spring boot
26. How to read the Property file from the java class.
27. What and why Junit and mocking framework.
28. SOLID principle – give small description about each one of them
29. Design patterns used in your project – give example / pseudocode
    1. What kind of code you have written , can you explain.
    2. If you are defining the constructor of singleton class as private then how the object of this class will be created .

Priyanka 30/9/2021

1. Singleton design pattern
2. How two microservices communicate with each other?
3. JWT – have you worked with it.
4. Synchronous and unsynchronous communication between microservices.
   1. Which scenario you will use
5. When you call Microservices how to set time in , time out
6. Have you works with docker ?
7. Features of java 8 .. which is used to write 1 liner code for collections
8. Max age of the cookie , how to get it
9. Lambda Expression , why they are used.
10. How to do caching in your project.
11. Properties file – read other webservice url from this properties file
12. Lombok – have you worked with
13. How transactions needs to managed
14. If two transaction take place at the same time then how to handle it.
15. Which UI framework you have used and why.
16. Backend database – how you write queries in SQl
    1. Max salary of an employee
17. Experience in spring , spring boot, microservices
    1. Explain your project module
    2. Where exactly your implemented which design pattern

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Aniben 30-Sep 2021\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Brief us about your project
2. Exp. In webservices /Microservices/ Spring Boot
3. Sort ArrayList of emp object , how can we do so.
   1. How to sort this emp object with based on their other field apart from ID.

(use Comparator)

1. Spring which all modules you have worked?
   1. In your project module, explain how you have used.
2. Hibernate – what all you have done in your project.
   1. What all mapping you have performed.
3. ..
4. SQL – max sal of emp.
5. Overriding & Overloading – explain with scenario
6. Caching in spring , how it happens
7. Autowiring in Spring, how we can do it in our project
8. Securtiy
9. Transaction mgmt..
10. How you performed deployment .. production

ShivKumar 30-sep-2021

1. Monolithic project or microservices
2. OOPs concepts with example is respect of your project application (example of encapsulation)
3. State diff between Collection and Collections
4. Diff between Statement and PreparedStatement.
   1. What is CallableStatement
   2. When do we use which type of statement.
5. Are you aware of Asynchronous , what does it means in terms of multithreading .
   1. Explain diff between Asynchronous and Synchronous.
   2. With help of an example
6. Comparable and Comparator.
7. Rest And SOAP
   1. Rest is also known as stateless and SOAP is stateful , can you explain
8. Marker/Tagging interface , any example – no method , then why we need such interface.(to inform the compiler about the functionality implemented by the class)
9. Latest feature of java 8 and explain them.
10. Bean Life cycle of Spring explain
11. Spring Bean states , name them
12. Spring IOC explain
13. Spring AOP explain
14. What does Autowired annotation does.
    1. If I have 2 classes implementing the same interface, then spring container will get confused in terms of Autowiring, so what can be done in such scenario (@Qualifer)
15. What is DispatcherServlet
16. What all annotation you have used in
    1. In Main class
    2. In Controller
    3. In Service
    4. In Repository
17. Exactly where the transaction needs to be placed in your spring application ?
18. What all starter dependencies you have used
    1. Why we need Actuator
    2. Can you name some metrix which can be used with Actuator
19. What all dependencies to be added in order have DB connection in spring boot.
20. Can we have more than one property file.
    1. If we have multiple property file , how spring application will decide which file to pick up.
21. Are your aware of @ConfigurationProperties, what it is for?(map value to the specific application.properties file properties)
22. How to disable specific properties
23. Diff Hibernate and JPA.
24. How to configure Second level cache in hibernate
25. Design pattern used – examples
26. Solid Principles -for application building
27. What id Dev tools in spring boot
28. Annotation used in Controller in Spring boot
29. Diff between Put and Patch
30. When do we use PathVariable and QueryParam. Example
31. Have you worked with ..
32. Which version control you have used - (git)
    1. Pull and fetch difference
33. State some advantages of microservices architecture. As compare to monolithic

----- 27-Sep-2021---some more question :​

1.What is abstraction? 2.In how many ways we have create a thread? 3.what is inter-communication in thread? 4.what is deadlock how it is resolve? 5.what is immutable class is java? 6.how we can create immutable class? 7.what is map in collection? 8.what is spring boot ? difference between spring and spring boot? 9.what is singleton class?How we can create singleton class 10.is singleton class is thread safe? 11.what are the bean scope in spring? 12.What is dependency injection in spring ? 13.what is actuator in springboot? how enable it. 14.what is native and transient keyword in core java 15.in hibernate where you write database connection related stuff? 16.what is life cycle of object in hibernate? 17.is it possible to take two configuration file in single application in spring? 18. What is @Autowire? 19. what is @qualifier?

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some more question :

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difference b/w spring MVc and SpringBoot What is the use of @RestController what is @Ban how we can get single variable Git branch based question what is Aop in spring what is map and its internal work? what is abstarction? when we go for abstact and interface what are modules in Angular ? what is directive in angular? how we can update version in angular? thread life cycle? differnce between notify and notifyAll() @RequestBody why we use it What is serialization different types of design patterns features of java 8

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Some more question :

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-difference b/w PathVariable and Request Parem -difference b/w controller and RestController -internal working of Set -Java 8 Feature like lamda,functional interface and Stream Api -Why we use Microservice explain adv. and dis advantage. -difference between @autowire and @qualifier -how we can comunicate one service to other service in MicroService -explain oauth 2.0 architecture -difference b/w ArrayList and LinkedList -what is collision in hashing -how to create singleton class -what is ORM and why we use hibernate -difference b/t spring and spring boot -explain actuator in spring boot -explain patch httpmethod -explain equals and hashcode

**L2- Shiv--- 4-10-21**

1. Pls explain us the technical aspect of your project.
   1. any other tools you have works on.
   2. What all spring modules you worked on
2. IOC- explain with scenario of your project.
   1. Why should we use IOC.
   2. How to interchange dependencies
   3. How spring ensures that dependencies interchange
3. What is the **purpose of** interface in java? Explain with a scenario.
   1. What is the exact purpose, just like in javascript we don’t have interfaces .. then here in java why interfaces are there.