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Round - 01 Technical Round

(01) About yourself.

(02) Current project & day to day tasks/responsibility in current project.

(03) Purpose of constructor, static variables, why static methods are created.

(04) Abstract class in JAVA

(05) Difference Encapsulation & Abstraction? How to implement in application.

(06) Making abstract method STATIC in JAVA; Static variables in abstract class.

(07) Why we use this keyword

(08) OOPs concepts in JAVA: Encapsulation; Abstraction; Polymorphism.

(09) Types of Polymorphism: Run time & Compile time polymorphism. Why it’s called run time polymorphism? Method over-riding & Over-loading. Difference between method overloading & over-riding

(10) String & Strong Pool; Stack & Heap memory storage

(11) How to create a string, Declaring a string

(12) Multi-threading: Thread communication between each other

(13) Apache Kafka: Why it is used? Producer and Consuming

(14) Components in Kafka; Role of Zookeeper in Kafka?

(16) Apache Camel: Enterprise Service Bus (no); What is used for : Routing requests

(17) Advantages of Apache Camel (no); Enterprise integration patterns in Apache Camel

(18) Why using MongoDB in current application

(19) Difference between MongoDB and Other SQL databases.

(20) Difference between traditional JavaScript & Angular typescript

(21) What is Spring boot application

(22) Project brief introduction: BNE - T-Mobile - Migrating to Oracle DB to Postgres/Couchbase

Services based projects and integration of various products is present.

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ROUND -02 Technical skills; Level of exposure to Cloud

(01) Different memory area in JAVA?

(02) Life span of objects in HEAP memory; Different segments in Heap memory (X)?

(03) Different class loaders in JAVA and how they work?

(04) What is singleton class? Different ways to create single ton?

(05) How to implement lazy initialization?

(06) What is importance of serial version UID?

(07) What is actual use case of Serialization? (X)

(08) Multi-threading/ Executor framework: - How do you create thread pool size. What is API name?

(09) Difference between callable and runnable interface? Returning the value is achieved using which one?

(10) Blocking Queue in JAVA

(11) Producer/Consumer problem: How multi-threading solves this problem?

(12) What are @Component/ @Controller / @Rest Controller?

(13) Spring Framework: Once request hits application & response sends back to client: What all steps are involved in this?

(14) Advantages of Spring over Spring boot

(15) What are Actuaters?

(16) 1st level cache and 2nd level cache

(17) Property JAR frequently changed

(18) Configuration Server

(19) Different components of microservice architecture

(20) How to fetch latest changed configuration from configuration server.

(21) What is the use of API Gateway?

(22) How to write test cases? - JUnit and Mokito

(23) What is PL/SQL and how to write stored procedure?

(24) How to write parallel camel route in spring?

(25) Different agile methodologies. - Sprint planning, Scrum, Retro

(26) Comfortable in using JIRA?

Round 03 : Managerial - 03 (20 mins)

(01) Summarize experience of Round 1 & Round 2

(02) Walkthrough with profile

(03) Current project; day to day task list & Specifc Module/Functionality worked on

(04) How much Latency support (real time updates) in push notifications was provided?

(05) Any particular reason for using MongoDB.

(06) What kind of scaling in used in MongoDB? How many instances are used?

(07) Phase of current project: using which model: - Waterfall/Agile

(08) NoSQL Database primarily: Opinion about other databases like Couchbase? What should be about criteria of choosing NoSQL? Anything you know about Couchbase

(09) When we should use Postgres and when to use MongoDB? Transactional vs new data fields

(10) Working in Agile setup: what is team size? What is the composition of team?

1 BA, 2 FE, 2 BE, 3 QA

(11) Do you follow PI and Sprints?

(12) What about Demos: How frequently they are actual planned?

(13) Which time zone you are working in?

(14) How much comfortable you are working in US time zone?

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NAVEEN JAIN + [chinnala.venkata.nikhil@ericsson.com](mailto:chinnala.venkata.nikhil@ericsson.com) (Round1)

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01) Describe your projects in last 1.5 year

02) What is the concept behind Dependency Injection?

Why spring came up with DI

03) Get instance of Class A in Class B. How to do it?

04) Uses of Bean factory & Application Context

05) What is Purpose of View Resolver

Rate yourself on Scale of 5 for Core-JAVA:

06) Collection framework : what all interfaces are available?

07) Differentiate Hashmap v/s Hashtable

08) Different types of contructors : parameterized & normal

09) What is static blocks? Use case for static blocks

10) Shallow Copy & Deep Copy (X)

11) Exception handling: Order of exception handling? How to use try catch blocks with

examples. DB Conncetion,

12) Created objects, Local variables are stored in which memory?

13) Heard about Executor framework: Multi-threading & con-current programming

14) Ways for creating the threads: 3rd callable interface / Nullable interface

15) Deadlock in threads :

16) Try-Catch block v/s Try with resources

17) Tell me about String Pool

18) MYSQL RDBMS : Tell me something about what are indexes.

19) What is the difference between Index & View.

20) SQL Joins: Tell me anything about one JOIN.

21) Syntax for Update statement: -

22) Know how to create Store Procedure

23) Single Sign-on features: - How does SSO work

24) Difference between Authorization & Authentication

25) Evolution of Single Page Application

26) Create basic SPA without using Angular/ReactJS: old school way: AJAX and Javascript

27) What are datatypes present in JavaScript?

28) Checking Equality of 2 variables: - Possible to check equality in types between 2 variables in JavaScript

29) HTML pages: Introduce java script into Web page (head or body section): Best suitable method to place? Why we declare java script in HEAD section

30) Difference between REACT and REACT DOM? (X)

31) Virtual DOM in react? (X)

32) Kafka + Camel (X)

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