DBS Backend Interview Preparation Guide

- Prepare 3 minutes introduction brief about yourself, your current project what problem it solved, your key technical
- List down some of the key challenges you faced in your projects and how you helped to solve it.
- Object Oriented Principles Abstraction, Encapsulation, Inheritance and Polymorphism. Must be able to demonstrate these principles with examples / scenarios. Type of polymorphism. Association, aggregation and composition.

https://beginnersbook.com/2013/04/runtime-compile-time-polymorphism/https://www.geeksforgeeks.org/dynamic-method-dispatch-runtime-polymorphism-java/

https://beginnersbook.com/2013/05/aggregation/

https://www.geeksforgeeks.org/overloading-in-java/

Core Java - Collections (List, Map and Set), hashcode () and equals (), mutable vs immutable objects, how to create immutable objects. HashMap and ConcurrentHashMap differences, Exception handling in Java, Serialization, Threads concepts, heap dump analysis etc.

 ${\tt https://crunchify.com/hashmap-vs-concurrent hashmap-vs-synchronized map-how-a-hashmap-can-be-synchronized-in-java/likely-li$

 $\underline{\text{http://javahungry.blogspot.com/2014/02/hashmap-vs-concurrenthashmap-java-collections-interview-question.html}$

https://www.baeldung.com/java-exceptions-interview-questions

 ${\tt https://javarevisited.blogspot.com/2013/06/10-java-exception-and-error-interview-questions-answers-programming.html}$

http://tutorials.jenkov.com/java-concurrency/race-conditions-and-critical-sections.html

https://www.baeldung.com/java-volatile

https://jorosjavajams.wordpress.com/volatile-vs-synchronized/

https://java2blog.com/java-serialization-interview-questions-and-answers/

https://www.journaldev.com/349/java-classloader

 $\frac{\text{https://betsol.com/2017/06/java-memory-management-for-java-virtual-machine-jvm/https://stackoverflow.com/questions/1440134/when-should-a-class-be-comparable-and-or-comparator-properties of the state of the s$

https://www.geeksforgeeks.org/java-util-hashmap-in-java/

http://coding-geek.com/how-does-a-hashmap-work-in-java/

https://www.youtube.com/watch?v=Nr56SlbMed4

https://www.journaldev.com/1058/deadlock-in-java-example
https://googleads.g.doubleclick.net/aclk?sa=L&ai=C8np_FVhrW73vJpKIoAPWkbuABqXVnbEFjdzCup8Cpp6tjWsQAiCl7NQcKAhg5erjA8gBAagD
AcgDAqoEwgFP0K7JH02NAReQcpLloY9AS4rBfdBje-XbETIK3Iscq9CZkOGJ4j6x4ys5ry-nlibK0619IGYRNrkKxtDzlesOm5HYvyp681d2qEjtIPoksPNvl-

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 $\underline{AKACgE\&num=2\&sig=AOD64_lod9u4UjZlHeLpO2hlcVSOaAmenA\&adurl=https://www.journaldev.com/1162/java-multithreading-numeration-particle-part$

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http://mrbool.com/working-with-java-executor-framework-in-multithreaded-application/27560

https://www.journaldev.com/129/how-to-create-immutable-class-in-java

https://www.journaldev.com/2529/jdbc-interview-questions-and-answers

 $\underline{ https://blogs.oracle.com/poonam/about-g1-garbage-collector,-permanent-generation-and-metaspace}$

https://blog.codecentric.de/en/2008/07/memory-analysis-part-1-obtaining-a-java-heapdump/

 $\label{log:https://dzone.com/articles/memory-analysis-how-to-obtain-java-heat-dump $$ $$ https://java-revisited.blogspot.com/2015/01/top-20-string-coding-interview-question-programming-interview.html $$ $$ $$ https://java-revisited.blogspot.com/2015/01/top-20-string-coding-interview-question-programming-interview. $$$

Java 8 - Functional Interface, Lambdas, Stream, Optional and Method References etc.

 $\underline{\text{https://medium.freecodecamp.org/learn-these-4-things-and-working-with-lambda-expressions-b0ab36e0fffcents}. \\$

https://www.journaldev.com/2774/java-8-stream

https://javabrains.io/courses/java_lambdabasics/lessons/Introduction-To-Streams

https://www.javatpoint.com/java-8-stream

https://www.journaldev.com/2752/java-8-interface-changes-static-method-default-method

 $\underline{\text{http://www.java2s.com/Tutorials/Java/Stream_How_to/IntStream/Use_lambda_to_check_if_a_integer_is_a_prime_number.htm}$

https://www.journaldev.com/10081/javase8-interview-questions-part2

Solid Principles

https://www.youtube.com/watch?v=t86v3N4OshQ

Hibernate

 $\underline{\text{https://www.thoughts-on-java.org/complete-guide-inheritance-strategies-jpa-hibernate/}}$

https://codingcompiler.com/hibernate-interview-questions-answers/

https://howtodoinjava.com/hibernate/complete-hibernate-query-language-hql-tutorial/

https://dzone.com/articles/all-about-hibernate-second

https://www.journaldev.com/2969/hibernate-caching-first-level-cache

SQL

 $\label{lem:http://a4academics.com/interview-questions/53-database-and-sql/597-top-100-database-sql-interview-questions-and-answers-examples-queries-https://www.c-sharpcorner.com/article/most-asked-sql-queries-in-interview-questions/$

https://www.youtube.com/watch?v=2HVMiPPuPIM

 $\underline{https://community.modeanalytics.com/sql/tutorial/sql-performance-tuning/}$

Spring / Spring Boot and Rest

https://www.baeldung.com/spring-interview-questions https://intellipaat.com/interview-question/spring-interview-questions/ http://candidjava.com/tutorial/spring-boot-interview-questions/ https://www.techbeamers.com/rest-api-interview-questions-answers/ https://dzone.com/articles/spring-transactional-amp-exceptions https://www.baeldung.com/exception-handling-for-rest-with-spring

Unit Testing

 $\frac{\text{https://mindmajix.com/junit-interview-questions}}{\text{https://www.baeldung.com/junit-5}} \\ \text{https://www.javacodegeeks.com/2014/09/mockito-101.html}$

Design Patterns

Singleton, Factory, Abstract Factory, Builder, Observer, Decorator

CI/CD (Overview of Jenkins, Sonar, code coverage, smells etc.)

https://www.youtube.com/watch?v=p?U1 E | 3w https://www.xoriant.com/blog/mobility/introduction-sonarqube.html https://blog.codinghorror.com/code-smells/https://www.javaworld.com/article/2074515/core-java/unit-test-code-coverage-with-maven-and-jacoco.html

Others

https://www.youtube.com/watch?v=Hbt56gFj998 http://bigocheatsheet.com/ https://www.geeksforgeeks.org/bubble-sort/ http://interactivepython.org/coursellb/static/pythonds/SortSearch/TheMergeSort.html