

Advanced Java Programming

 Duration: 2 Days

 Available Languages: English

Audience

Experienced Software Developers.

Precondition

Knowledge of programming in Java.

Goals

Write skilled programs in Java (J2SE, J2EE, and Android).

Contents

- Multithreading
 - The Java Thread State Machine
 - Runnable vs Thread
 - Green Threads vs Native Threads
 - Executors vs Threads, Future
 - Usage of synchronized
 - Usage of volatile
 - Double-Checked Locking
 - Avoiding Deadlocks
 - java.util.concurrent API
- Exception Handling and Resource Management
 - AutoCloseable try-catch-finally
 - finally pitfalls
 - Avoiding Memory Leaks
- Improving Code Readability
 - Source Code Formatting
 - How to avoid hard-coded environments
 - Naming Conventions
- Java Design Principles for Battling Complexity
 - The 4 Rules of Simple Design
 - The 4 Design Smells
 - Using APIs correctly
 - Using static correctly (and when to avoid it)
 - Singletons as Pattern and Anti-Pattern
 - Immutability vs Defensive Cloning
 - Delegation vs Inheritance
 - Solving ADP violations with abstraction and dependency inversion

- Logging Tips and Tricks
 - How to make logs more readable
 - How to make logging easier to setup
 - What to log, and what not to log
- Network Programming
 - Dealing with Latency and Connectivity Issues

Booking

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