Advanced Java Programming Training

Duration: **5 Day**

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Overview

Java language has become a universal standard for the development and distribution of embedded and mobile applications, games, web based content and enterprise software by becoming the foundation of almost any network application. With more than 9 million developers throughout the world, Java allows you to develop and distribute exciting applications and services in a more efficient manner.

The purpose of this training is to examine APIs, such as NIO, Security, JNI, JDBC, JPA, and JNDI within Java platform, which are not examined in Basic Java Programming training. Additionally, details of the language's performance are studied.

Prerequisites

There are no prerequisites for this course.

Who Should Attend

All Java Developers

What You Will Learn

- Becoming a better Java programmer
- Mastering in the management of Java programming language
- Understanding issues, such as threading, Java NIO, etc. properly
- Understanding the details of Java programming language
- Improving the performance of your Java program

Outline

Module 1 - Annotations and Reflection API, Scripting API, Compiler API

Module 2 - Collections

- Quick summary
- Performance
- Java Puzzlers on collections
- Best Practices

Module 3 - XML Processing

- XML and XSD

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- JAXP (SAX, DOM, StAX)
- JAXB
- XSL
- XPath
- XQuery

Module 4 - RMI

Module 5 - JMX and Programming MBeans

Module 6 - JNI

Module 7 - JNLP

Module 8 - Threads and Concurrent Programming

- Quick summary
- Callable
- Future
- FutureTask
- Executors
- Synchronizers

Module 9 - Database Programming

- JDBC
- JPA
- JTA

Module 10 - NIO and NIO2

Module 11 - Networking

- Non-Blocking Sockets
- Selector

Module 12 - JNDI

Module 13 - Security

- Digital Signatures,
- Message Digests
- Symmetric/Asymmetric Ciphers

Module 14 - New Features in Java 7 and 8

Module 15 - Stream API and Map/Reduce