

ENTERPRISE JAVA SEMINAR SERIES

ROI Training offers one-day seminars on cutting-edge Enterprise Java topics. All of these seminars can be tailored to meet your needs.

Hibernate

Join us for a one-day overview of Hibernate, a high-performing Object to Relational Mapping (ORM) platform using Plain Old Java Objects (POJOs) and implementing the Domain Store design pattern. As we tear apart Hibernate, you will learn how to map persistence classes to your data store, and then manipulate these objects with the persistence manager. You will discover how to effectively use the framework over large datasets, and we will discuss the implications Hibernate has on concurrency. Finally, Hibernate's transaction and caching models will be discussed.

EJB3.0

This one-day seminar walks attendees through the radically simplified EJB specification. You will find that EJBs in the future will not only be far easier to implement and maintain, but they will be applicable to a much broader range of business problems. This course will highlight these changes including the new specification's reliance on Aspect Oriented Programming (AOP), DI (Dependency Injection), and JDK1.5 annotations. Finally, the new Plain Old Java Object (POJO) Entity model will be discussed and compared to EJB2.1 Entity Beans.

Spring

Attending this one-day session on Spring will help attendees recognize the myriad of places where this lightweight framework is applicable. We will cover Spring's Inversion of Control (IoC) container, and the different ways it allows a programmer to take advantage of Dependency Injection (DI). Examples of utilizing DI's plugability will be given inside of automated regression tests with JUnit. We also dive into Spring's Aspect Oriented Programming (AOP) API, and show the tremendous simplification this can have on common boilerplate code. Spring JDBC support and Spring Remoting are also covered. Other Spring APIs can be weaved into this course upon request.

Web Services

This one-day overview of Web Services shows attendees how to utilize this platform-agnostic distributed application communication protocol. Web Services allows you to publish remotely invoked logic in a firewall friendly fashion for easy B2B communication. During this session we'll cover SOAP (Simple Object Access Protocol), along with WSDL (Web Services Definition Language), and detail how to register with UDDI and ebXML registries. Examples will be given using both JAX-RPC (Java API for XML-Based RPC) and SAAJ (SOAP with Attachments API for Java).

JNI

This one-day session will explore how the Java Native Interface (JNI) allows Java and native languages like C/C++ to share libraries. JNI is commonly used when Java libraries don't exist and/or you need to write a small portion of logic in a lower-level language for performance tuning reasons. This course will show you how to link exception handling, method invocation, and data mapping from both a Java perspective and a native perspective. We will also explore the implications of multithreading in a JNI environment.