DESCRIPTOR SYSTEMS
"We Bring You Up To Speed"

Integerating Spring and Hibernate Developer's Workshop

Description: This course covers the basics of programming the Spring framework, the basics of programming the Hibernate Object-Relational Mapping (ORM) framework and the integration of the two. Since Hibernate implements the Java Persistence API (JPA), the workshop covers basic JPA concepts as well.

Prerequisites: Basic Java programming experience is required.

Audience: Business analysts, developers, managers and other people interested in learning how to program Spring and Hibernate/JPA.

Length: Four days.

Objectives:

After taking this course, you will be able to:

1. Understand and program the fundamentals of Spring, including dependency injection and how to wire beans together.

2. Program Web applications using Spring MVC.

3. Create reliable programs that execute units of work using Spring's transaction support.

4. Write Spring programs that interoperate with heterogeneous applications using Spring Web services.

5. Understand the fundamental concepts of object-relational mapping.

6. Code objects that are persistent using Hibernate.

7. Use inheritance and relationships in your object model using Hibernate.

8. Retrieve sets of objects using Hibernate's object-query facilities.

9. Integrate Spring and Hibernate in applications.

Topic List

- Introduction to Spring

- The Spring Container

- Introduction to Dependency Injection

- Spring Beans

- Advanced Dependency Injection and Wiring

- Spring Transactions

- Introduction to SpringMVC

- Web Services Concepts

- Spring and Web Services

- Spring and JDBC

- Object-Relational Mapping Concepts

- Introduction to Hibernate

- Spring and Hibernate

- Programming Hibernate

- Hibernate Queries

- Hibernate Relationships

- Testing Spring/Hibernate Applications