



## CURRICULUM

### HIBERNATE v3.0

#### » INTRODUCTION TO MAPPING OBJECTS TO RELATIONAL DATABASES

- Serialization 2
- XML 2
- Object-Oriented Database Systems
- Mapping

#### » INTRODUCTION TO HIBERNATE

- Hibernate Architecture
- Hibernate Configuration
- Hibernate's Support for Other Technologies
- Installing Hibernate
- A "Hello World" stand alone application
- A Servlet-Based Hibernate Application

#### » CREATING PERSISTENT CLASSES

- Mapping a Basic Java Class
- Mapping a Class with Binary Data
- Mapping a Serializable Class
- Mapping a Class with Data/Calendar Attributes
- Mapping a Read-Only Class
- Mapping Classes Using Versioning/Timestamps

#### » MAPPING INHERITANCE WITH JAVA CLASSES

- Table-Per-Class Hierarchy Mapping
- Table-Per-Subclass Hierarchy Mapping
- Table-Per-Concrete-Class Hierarchy Mapping
- Persisting Interfaces

#### » WORKING WITH COLLECTIONS

- Associations
- Lazy Initialization
- Mapping Maps/SortedMaps
- Mapping Set/SortedSets
- Mapping Lists
- Mapping Arrays
- Mapping a Bidirectional Association

## » USING PERSISTENT OBJECTS

- Persisting Objects
- Loading Data into an Object
- Updating and Finding Objects

## » SCALAR QUERIES AND HIBERNATE QUERY LANGUAGE

- Queries
- Named Queries
- SQL Queries
- Hibernate Query Language

## » HIBERNATE CACHING

- Setting Up a SessionFactory Cache
- Using the Persistent Object Cache
- Using the Query Cache
- Setting Up EHCache

## » HIBERNATE TRANSACTIONS AND LOCKING

- Configuration
- Database Support
- Using Transactions
- The Transaction API
- Transaction Example Using Oracle
- Locking

## » HIBERNATE AND XDOCLET

- Introduction to XDoclet
- Using XDoclet with Hibernate
- Hibernate XDoclet Tags and Description

## » HIBERNATE AND ECLIPSE

- Hibernate
- Hiberclipse
- Hibernate Synchronizer

## » INTEGRATION OF STRUTS 2, HIBERNATE AND SPRING

- Struts and Hibernate
- Spring and Hibernate
- Struts, Hibernate and Spring

# SPRING v2.5

## » What is Spring

- Spring modules
- Understanding dependency injection
- Applying aspect-oriented programming

## » Basic bean wiring

- Containing your beans
- Creating beans
- Injecting into bean properties
- Autowiring
- Controlling bean creation

## » Advanced bean wiring

- Declaring parent and child beans
- Applying method injection
- Injecting non-Spring beans
- Registering custom property editors

## » Advising beans

- Introducing AOP
- Creating classic Spring aspects
- Creating advice
- Defining pointcuts and advisors
- Using ProxyFactoryBean
- Autoproxying

## » Hitting the database

- Learning Spring's data access philosophy
- Configuring a data source
- Using JDBC with Spring
- Working with JDBC templates
- Using Spring's DAO support classes for JDBC
- Integrating Hibernate with Spring
- Caching

## » Spring and POJO-based remote services

- An overview of Spring remoting
- Working with RMI
- Remoting with Hessian and Burlap
- Using Spring's HttpInvoker
- Spring and web services

## » Building contract-first web services in Spring

- Introducing Spring-WS
- Defining the contract (first!)
- Handling messages with service endpoints
- Wiring it all together
- Consuming Spring-WS web services

## » Spring and Enterprise JavaBeans

- Wiring EJBs in Spring
- Spring and EJB3

## » Handling web requests

- Getting started with Spring MVC
- Mapping requests to controllers
- Handling requests with controllers
- Handling exceptions

## » Integrating with other web frameworks

- Using Spring with Struts
- Registering the Spring plug-in with Struts
- Writing Springaware Struts actions
- Delegating to Spring-configured actions
- What about Struts 2?
- Working Spring into WebWork 2/Struts 2

Partners :



Java



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