WebChamps
Creating Smarter Planet

Syllabus : Spring, Hibernate

Basics of Spring

- ✓ What is Spring
- ✓ Spring Modules
- ✓ Spring Application

Spring with IDE

- ✓ Spring in Eclipse

IOC container

Dependency Injection

- ✓ Constructor Injection
- ✓ CI Dependent Object
- ✓ CI with collection
- ✓ CI with Map
- ✓ CI Inheriting Bean
- ✓ SI Dependent Object
- ✓ SI with Collection
- ✓ SI with Map
- ✓ CI vs SI
- ✓ Autowiring
- ✓ Factory Method

Spring AOP

- ✓ AOP Terminology
- ✓ AOP Implementations
- ✓ Pointcut
- ✓ Advices

Spring JDBC

- ✓ JdbcTemplate Example
- ✓ PreparedStatement
- ✓ ResultSetExtractor
- ✓ RowMapper
- ✓ NamedParameter
- ✓ SimpleJdbcTemplate

Spring with ORM

- ✓ Spring with Hibernate
- ✓ Spring with JPA

Basics of Hibernate

- ✓ Hibernate Introduction
- ✓ Hibernate Architecture
- ✓ Understanding First Hibernate application

Hibernate with IDE

- ✓ Hibernate in Eclipse
- ✓ Hibernate in MyEclipse

Hibernate Application

- ✓ Hibernate with annotation
- ✓ Hibernate Web application
- ✓ Hibernate Generator classes
- ✓ Hibernate Dialects

Hibernate Logging

- ✓ Hibernate with Log4j 1
- ✓ Hibernate with Log4j 2

Inheritance Mapping

- ✓ Table Per Hierarchy
- ✓ Table Per Hierarchy using Annotation

- ✔ Table Per Concrete
- ✔ Table Per Concreteusing Annotation
- ✔ Table Per Subclass
- ✔ Table Per Subclass using Annotation

Collection Mapping

- ✔ Mapping List
- ✔ One-to-many by List using XML
- ✔ Many to Many by List using XML
- ✔ One To Many by List using Annotation
- ✔ Mapping Bag
- ✔ One-to-many by Bag
- ✔ Mapping Set
- ✔ One-to-many by Set
- ✔ Mapping Map
- ✔ Many-to-many by Map
- ✔ Bidirectional
- ✔ Lazy Collection

Component Mapping

Association Mapping

- ✔ One-to-one using Primary Key
- ✔ One-to-one using Foreign Key

Transaction Management
HQL