

Deccansoft Software Services

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Spring & Hibernate

Spring Framework

- **Spring Basics**
 - What is Spring Framework
 - Inversion of Control
 - Dependency Injection
 - Bean Factory
 - Developing First Spring Application
- **Spring Container**
 - Built-in Bean Factories
 - Application Context
 - Wiring Beans
 - Bean Lifecycle in Container
 - Spring Events
- **Spring AOP**
 - Introduction to AOP
 - Role of AOP in Spring
 - AOP Advice
 - AOP Pointcuts
 - Spring AOP Introductions
 - ProxyFactoryBean
- **Spring Data Access**
 - JDBC Abstraction Layer
 - Data Access Exceptions
 - DAO Support
- **Spring O-R Mapping**
 - What is O-R Mapping
 - O-R Mapping support in Spring
 - Hibernate Support / Mapping
- **Spring Transaction Management**
 - Transaction Abstraction in Spring
 - Transaction Strategies
 - Programmatic Transaction
 - Declarative Transaction
- **Spring Remoting and Enterprise Services**
 - Introduction to Spring Remoting
 - Java RMI in Spring
 - Accessing JNDI
 - Invoking EJB from Spring
 - Web Service in Spring using JAX-RPC Support
 - Messaging Support in Spring using JMS
 - Sending Mail with Spring Mail
 - Scheduling using Timer Support
- **Spring Web MVC Framework**
 - Web MVC Architecture
 - Role of DispatcherServlet
 - Controller
 - Handler
 - View Resolving
 - Data Binding
 - File Upload Support
- **Securing Spring Applications**
 - Acegi Security System for Spring
 - Authentication
 - Access Control
 - Web Application Security
 - Method Invocation Security

Relational Persistence Using Hibernate

- **Introduction to Hibernate**
 - Drawbacks of direct JDBC
 - Plain Old Java Object (POJO)
 - What is O-R Mapping
 - Simple Database Application
- **Hibernate Configuration**
 - Required JAR Files
 - Hibernate configuration File
 - Hibernate properties File
 - Hibernate XML File
 - SQL Dialects
- **Hibernate Concepts**
 - Id and Primary Key
 - Id Generation Methods
 - SessionFactory
 - Session
 - Transaction
 - Developing CRUD Application
- **Hibernate O-R Mapping**
 - Mapping Declarations
 - Modeling Composition with Relationship
 - Modeling Composition with Components
 - One-to-One Association
 - One-to-Many Association
 - Many-to-Many Association
 - Uni and Bidirectional Associations
 - Hibernate Value Types
 - Custom Types
- **Manipulating and Querying**
 - Persistent Objects
 - Object Loading
 - Executing Queries
 - Iterating Results
 - Scalar Results
 - Bind Parameters
 - Pagination
- **Hibernate Query Language**
 - Select clause
 - From clause
 - Where clause
 - Aggregate functions
 - Expressions
 - Sorting
 - Grouping
 - Sub queries
- **Criteria Queries**
 - Creating Criteria
 - Narrowing the Result
 - Ordering the Result
- **Native SQL**
 - Using SQL Query
 - Named SQL Query
 - Using Stored Procedure for Querying
 - Creating Custom SQL for CRUD
- **Transactions and Concurrency**

- Session and Transaction Scopes
- Database Transaction Demarcation
- Optimistic Concurrency Control
- **Spring Boot**
 - Introduction Spring boot
 - Installation of STS in eclipse
 - Using Spring STS IDE
 - Using Spring Initializr Website
 - Hello World example using spring boot
 - Java-Based Applications
- Pessimistic Concurrency Control
- Connection Release Modes

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