

## **SPRING Course Content**

### **CHAPTER 1: INTRODUCTION TO SPRING**

- WHAT IS SPRING?
- OVERVIEW OF THE SPRING FRAMEWORK
- SPRING PHILOSOPHIES
- SPRING DOCUMENTATION
- JAVA 5 LANGUAGE FEATURES

### **CHAPTER 2: A FIRST LOOK AT SPRING**

- A SIMPLE EXAMPLE
- WIRING BEANS
- CONFIGURING A PROPERTIES FILE
- SCHEMA-BASED CONFIGURATION

### **CHAPTER 3: BEANS AND CONTAINERS**

- SPRING CONTAINERS
- SPRING CONFIGURATION FILE
- SPRING BEANS
- USING THE CONTAINER
- THE BEANFACTORY INTERFACE
- SINGLETON VS. PROTOTYPE
- BEAN NAMING
- DEPENDENCY INJECTION
- SETTER INJECTION
- CONSTRUCTOR INJECTION

### **CHAPTER 4: THE APPLICATION CONTEXT**

- THE APPLICATIONCONTEXT INTERFACE
- ACCESSING APPLICATION COMPONENTS
- ACCESSING RESOURCES
- INTERNATIONALIZATION WITH MESSAGE SOURCE
- APPLICATION EVENTS

## **CHAPTER 5: DATA VALIDATION AND CONVERSION**

- THE VALIDATOR INTERFACE
- THE ERRORS INTERFACE
- THE VALIDATIONUTILS CLASS
- VALIDATOR EXAMPLE
- Testing the Validator
- Property Editors
- Custom Property Editors

## **CHAPTER 6: ASPECT-ORIENTED PROGRAMMING**

- Aspect-Oriented Programming
- AOP Concepts
- AOP Proxies
- The AOP Alliance
- Types of Advice
- AOP Example
- Introductions

## **CHAPTER 7: USING JDBC WITH SPRING**

## **CHAPTER 8: USING HIBERNAT WITH SPRING**

- What is Hibernate?
- Hibernate Sessions
- The HibernateTemplate
- Sample Class and Mapping File
- Creating and Saving a New Entity
- Locating an Existing Entity
- Updating an Existing Entity
- Hibernate Query Language
- Executing Queries

## **ZCHAPTER 9: SPRING WEB MVC - PART 1**

- Spring Web MVC
- The DispatcherServlet
- Writing a Controller
- A Simple View Page
- Configuring the Controller
- Adding a View Resolver
- Adding a Message Bundle
- Adding Business Classes
- Adding Test Data
- Accessing a Database
- Adding a Form
- Updating the Database
- Integrating Hibernate

## **CHAPTER 10: SPRING WEB MV - PART 2**

- Handler Mappings
- View Resolution
- Chaining View Resolvers
- Controllers
- AbstractWizardFormController

## **APPENDIX A: RESOURCES**

- Resources

