

# CONTENTS

<b>Chapter 1 ■ Getting Started with the Spring 2.5 Framework</b>		<b>1</b>
Describing the Spring Framework.....		2
Idea Behind the Spring Framework.....		2
Evolution of Spring.....		3
Features of the Spring Framework.....		3
Enhancements in Spring 2.5 .....		4
Exploring the Spring Architecture .....		5
Spring Core Module.....		6
Spring AOP Module.....		6
Spring ORM .....		6
Spring Web MVC.....		6
Spring Web Flow .....		7
Spring Data Access Object .....		7
Spring Application Context.....		7
Working with Spring 2.5 .....		8
Downloading the Spring 2.5 Framework.....		8
Configuring the Spring 2.5 Framework.....		8
Developing the FirstSpring Application .....		8
Summary .....		12
<b>Chapter 2 ■ Inversion of Control (IoC) in Spring</b>		<b>13</b>
Introducing Inversion of Control in Spring .....		14
Spring IoC Container.....		14
Beans .....		18
Classifying IoC Implementation Types .....		22
Explaining Dependency Lookup.....		22
Explaining Dependency Injection.....		24
Implementing IoC in Spring.....		32
Creating Simple Bean File.....		32
Creating XML Configuration File (beans.xml) .....		33
Compiling and Running the Application .....		34
Summary .....		35
<b>Chapter 3 ■ Aspect Oriented Programming in Spring</b>		<b>37</b>
Introducing AOP .....		38
Listing AOP Concepts .....		39
Implementing AOP in Spring.....		45
Working With @AspectJ Support in Spring 2.5.....		46
Working with XML- Schema Based Configuration .....		55
Summary .....		62

<b>Chapter 4 ■ Working with JDBC in Spring</b>	<b>63</b>
Implementing JDBC Core Classes and Interfaces.....	64
The JdbcTemplate Class.....	64
The NamedParameterJdbcTemplate Class.....	66
The SimpleJdbcTemplate Class.....	67
The DriverManagerDataSource Class.....	68
The SQLExceptionTranslator Interface.....	68
Controlling the Database Connections .....	69
The DataSourceUtils Class.....	69
The SmartDataSource Interface .....	70
The AbstractDataSource Class.....	70
The SingleConnectionDataSource Class.....	70
The DriverManagerDataSource Class.....	70
The TransactionAwareDataSourceProxy Class .....	70
The DataSourceTransactionManager Class .....	70
The NativeJdbcExtractor Interface.....	71
Implementing SimpleJdbc Classes and Interfaces in Spring 2.5.....	71
Using the SimpleJdbcInsert Class.....	72
Using the SqlParameterSource Interface.....	74
Using the SimpleJdbcCall Class.....	75
Performing JDBC batch operations in Spring.....	79
Using the JdbcTemplate Class.....	79
Using the SimpleJdbcTemplate Class.....	80
Developing a JDBC Application in Spring.....	81
Creating the Emp Table.....	82
Creating the Employee JavaBean Class.....	82
Creating the EmployeeDao Interface .....	83
Creating the JdbcEmployeeDao Class.....	84
Creating the JdbcTemplateClient Class.....	85
Configuring the Application.....	86
Creating Directory Structure of the Application.....	86
Running the Application .....	87
Summary .....	88
<b>Chapter 5 ■ Working with Spring Web MVC Framework</b>	<b>89</b>
Introducing the Features of Spring Web MVC Framework.....	90
Exploring the Components of Spring Web MVC Framework .....	91
The DispatcherServlet Class.....	91
The HandlerMapping Interface.....	92
The BeanNameUrlHandlerMapping Class.....	93
Spring Web MVC Controllers .....	95
The ModelAndView Class .....	99

The ViewResolver Interface .....	100
The View Components .....	102
Developing a Spring Web MVC Application.....	111
Creating the Controller .....	112
Creating the View .....	113
Crating Spring Configuring Files .....	114
Creating the Web Configuration File (web.xml) .....	116
Creating Directory Structure of the Application.....	116
Deploying and Running the Application .....	117
Summary .....	121
<b>Chapter 6 ■ O/R Mapping in Spring 2.5</b>	<b>123</b>
Working with ORM Tools in Spring.....	124
Integrating Hibernate with the Spring Framework .....	124
Integrating iBATIS with Spring Framework .....	146
Summary .....	158
<b>Chapter 7 ■ Integration of Spring with Other Web Frameworks</b>	<b>159</b>
Overview of the JSF Framework .....	160
Elements of the JSF Framework .....	161
Integration of the Spring Framework with the JSF Framework.....	163
The DelegatingVariableResolver Class .....	163
The FacesContextUtils Class .....	164
Developing Spring Application with the JSF Framework .....	164
Creating the Spring Application.....	164
Deploying and Running the Spring Application .....	169
Overview of the Struts Framework.....	170
Components of the Struts Framework.....	170
Integration of the Spring Framework with the Struts Framework .....	171
The ContextLoaderPlugIn Class .....	172
The ActionSupport Class.....	173
Developing Spring Application with the Struts Framework.....	174
Creating the Spring Application.....	174
Deploying and Running the Application .....	181
Summary .....	182
<b>Chapter 8 ■ Mail Support in Spring</b>	<b>183</b>
Implementing Mail Support in Spring .....	184
Spring Mail API .....	184
Developing Mail Application in Spring.....	188
Summary .....	192

<b>Chapter 9 ■ Testing in Spring</b>	<b>193</b>
Introducing Testing Support in Spring .....	194
Conventional Testing in Spring.....	195
Conventional Packages Supporting Testing in Spring .....	195
Conventional Testing Types.....	199
Exploring Spring 2.5 TestContext Framework.....	201
Exploring the org.springframework.test.context Package.....	202
Exploring ApplicationContext Class and Concept of Dependency Injection.....	203
Exploring Transaction Management in TestContext Framework.....	204
Exploring TestContext Support Classes for Testing Frameworks .....	205
JUnit 3.8 Support Classes.....	206
JUnit 4.4 Support Classes.....	206
TestNG Support Classes.....	208
Summary .....	208