



# Getting started with Spring Framework: a hands-on guide to begin developing applications using Spring Framework

*J Sharma, Ashish Sarin*

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Getting started with Spring Framework is a hands-on guide to begin developing applications using Spring Framework. The examples (consisting of **74 sample projects**) that accompany this book are based on **Spring 4.3** and **Java 8**. You can download the examples described in this book from the following GitHub project: [github.com/getting-started-with-spring/3rdEdition](https://github.com/getting-started-with-spring/3rdEdition)

This book is meant for Java developers with little or no knowledge of Spring Framework. Getting started with Spring Framework, Third Edition has been updated to reflect changes in **Spring 4.3** and also includes new chapters on **Java-based configuration** and **Spring Data** (covers **Spring Data JPA** and **Spring Data MongoDB** projects).

The existing chapters have been revised to include information on Java-based configuration. The book also includes some new information on bean definition profiles, importing application context XML files, lazy autowiring, creating custom qualifier annotations, JSR 349 annotations, spring-messaging module, Java 8's Optional type, and so on.

Chapter 1 - Introduction to Spring Framework

Chapter 2 - Spring Framework basics

Chapter 3 - Configuring beans

Chapter 4 - Dependency injection

Chapter 5 - Customizing beans and bean definitions

Chapter 6 - Annotation-driven development with Spring

Chapter 7 - Java-based container configuration (New)

Chapter 8 - Database interaction using Spring

Chapter 9 - Spring Data (New)

Chapter 10 - Messaging, emailing, asynchronous method execution, and caching using Spring

Chapter 11 - Aspect-oriented programming

Chapter 12 - Spring Web MVC basics

Chapter 13 - Validation and data binding in Spring Web MVC

Chapter 14 - Developing RESTful web services using Spring Web MVC

Chapter 15 - More Spring Web MVC - internationalization, file upload and asynchronous request processing

Chapter 16 - Securing applications using Spring Security

This book covers:

- Specifying configuration metadata using XML and annotations
- Programmatically configuring Spring container and beans
- Configuring different types of bean properties
- Bean lifecycle interfaces
- Customizing beans using BeanPostProcessors and BeanFactoryPostProcessors
- Bean definition inheritance
- Java-based container configuration
- JSR 250's and 330's annotations for dependency injection

- Validation using JSR 303/349 (Bean Validation API) annotations and Spring's Validator interface
- SpEL (Spring Expression Language)
- Caching using Spring's cache abstraction
- Sending and receiving JMS messages using Spring
- Aspect-oriented programming support in Spring
- Sending emails using Spring
- Asynchronously executing methods using Spring
- Task scheduling
- Database interaction using JDBC and Hibernate
- Programmatic and declarative transaction management
- Spring Data JPA and Spring Data MongoDB
- Spring Web MVC
- Developing RESTful Web Services using Spring
- Spring Security

The book shows a simple internet banking application that is developed incrementally in each chapter of the book and covers the topics mentioned above.

You can post your questions and feedback on the following Google group:

**[groups.google.com/forum/#!forum/getting-started-with-spring-framework](https://groups.google.com/forum/#!forum/getting-started-with-spring-framework)**

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