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# Getting Started With Spring Framework A Hands On To Begin Developing Applications Using Spring Framework

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Applications and Microservices with the Spring Framework

Developing Java Applications with Spring and Spring Boot

Beginning Spring

Pro Spring 5

Getting Started with Spring Framework

An In-Depth Guide to the Spring Framework and Its Tools

Cloud Native Java

A hands-on guide to creating clean web applications with code examples in Java

Designing, Building, and Deploying Messaging Solutions

Spring Microservices in Action

Mastering Spring Boot 2.0  
Spring Boot: Up and Running  
Designing, Building, and Deploying Messaging Solutions  
Expert One-on-One J2EE Design and Development  
Enterprise Integration Patterns  
Getting started with Spring Framework: covers Spring 5 (4th Edition)  
Reactive Spring  
Spring 5 Design Patterns  
Spring MVC: A Tutorial (Second Edition)  
Portlets in Action  
Get Your Hands Dirty on Clean Architecture  
Enterprise Integration Patterns  
Beginning Spring Framework 2  
Professional Java Development with the Spring Framework  
A Hands-On Guide to Begin Developing Applications Using Spring Framework  
From Novice to Professional  
A Hands-On Guide to Begin Developing Applications Using Spring Framework  
Getting Started with Roo  
Beginning Spring 5  
A Lightweight Introduction to the Spring Framework

Spring Boot in Action

Spring Start Here

Expert Spring MVC and Web Flow

Simplify the development of lightning fast applications based on microservices and reactive programming

Spring MVC: Beginner's Guide

Pattern Enterpr Applica Arch

A Problem-Solution Approach

Getting Started with Spring Framework

Practical Spring and Spring Boot solutions for building effective applications

*Getting Started With  
Spring Framework A  
Hands On To Begin  
Developing Applications  
Using Spring  
Framework*

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**VIRGINIA O'DONNELL**

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*Applications and Microservices with the  
Spring Framework* Apress

Getting Started with Spring FrameworkA

Hands-On Guide to Begin Developing  
Applications Using Spring  
FrameworkCreateSpace  
Developing Java Applications with Spring  
and Spring Boot Addison-Wesley  
Getting started with Spring Framework  
(4th Edition) is a hands-on guide to  
begin developing applications using  
Spring Framework 5. The examples

(consisting of 88 sample projects) that accompany this book are based on Spring 5.0.1 and Java 9. You can download the examples described in this book from the following GitHub project: [github.com/getting-started-with-spring/4thEdition](https://github.com/getting-started-with-spring/4thEdition) This book covers: - Spring Framework basics - Aspect-oriented programming - Database interaction using Spring and Hibernate/JPA - Spring Data JPA - Spring Data MongoDB - Messaging, emailing and caching support - Spring Web MVC - Developing RESTful web services using Spring Web MVC - Functional programming using lambdas and method references - Stream API - Reactive programming using RxJava 2 and Reactor - Spring WebFlux - Reactive support in Spring Data MongoDB and

Spring Security - Developing reactive RESTful web services using Spring WebFlux, Spring Security and Spring Data MongoDB  
*Beginning Spring* Simon and Schuster  
 Gain insight into how hexagonal architecture can help to keep the cost of development low over the complete lifetime of an application  
 Key Features  
 Explore ways to make your software flexible, extensible, and adaptable  
 Learn new concepts that you can easily blend with your own software development style  
 Develop the mindset of building maintainable solutions instead of taking shortcuts  
 Book Description  
 We would all like to build software architecture that yields adaptable and flexible software with low development costs. But, unreasonable deadlines and shortcuts

make it very hard to create such an architecture. Get Your Hands Dirty on Clean Architecture starts with a discussion about the conventional layered architecture style and its disadvantages. It also talks about the advantages of the domain-centric architecture styles of Robert C. Martin's Clean Architecture and Alistair Cockburn's Hexagonal Architecture. Then, the book dives into hands-on chapters that show you how to manifest a hexagonal architecture in actual code. You'll learn in detail about different mapping strategies between the layers of a hexagonal architecture and see how to assemble the architecture elements into an application. The later chapters demonstrate how to enforce architecture boundaries. You'll also learn what

shortcuts produce what types of technical debt and how, sometimes, it is a good idea to willingly take on those debts. After reading this book, you'll have all the knowledge you need to create applications using the hexagonal architecture style of web development. What you will learn Identify potential shortcomings of using a layered architecture Apply methods to enforce architecture boundaries Find out how potential shortcuts can affect the software architecture Produce arguments for when to use which style of architecture Structure your code according to the architecture Apply various types of tests that will cover each element of the architecture Who this book is for This book is for you if you care about the architecture of the

software you are building. To get the most out of this book, you must have some experience with web development. The code examples in this book are in Java. If you are not a Java programmer but can read object-oriented code in other languages, you will be fine. In the few places where Java or framework specifics are needed, they are thoroughly explained.

#### *Pro Spring 5 Apress*

You can choose several data access frameworks when building Java enterprise applications that work with relational databases. But what about big data? This hands-on introduction shows you how Spring Data makes it relatively easy to build applications across a wide range of new data access technologies such as NoSQL and Hadoop. Through

several sample projects, you'll learn how Spring Data provides a consistent programming model that retains NoSQL-specific features and capabilities, and helps you develop Hadoop applications across a wide range of use-cases such as data analysis, event stream processing, and workflow. You'll also discover the features Spring Data adds to Spring's existing JPA and JDBC support for writing RDBMS-based data access layers. Learn about Spring's template helper classes to simplify the use of database-specific functionality Explore Spring Data's repository abstraction and advanced query functionality Use Spring Data with Redis (key/value store), HBase (column-family), MongoDB (document database), and Neo4j (graph database) Discover the GemFire distributed data grid solution

Export Spring Data JPA-managed entities to the Web as RESTful web services  
Simplify the development of HBase applications, using a lightweight object-mapping framework Build example big-data pipelines with Spring Batch and Spring Integration

Getting Started with Spring Framework  
Packt Publishing Ltd

Learn Spring Boot and how to build Java-based enterprise, web, and microservice applications with it. In this book, you'll see how to work with relational and NoSQL databases, build your first microservice, enterprise, or web application, and enhance that application with REST APIs. You'll also learn how to build reactive web applications using Spring Boot along with Spring Web Reactive. Then you'll secure

your Spring Boot-created application or service before testing and deploying it. After reading and learning with Beginning Spring Boot 2, you'll have the skills and techniques to start building your first Spring Boot applications and microservices with confidence to take the next steps in your career journey. What You'll Learn Use Spring Boot autoconfiguration Work with relational and NoSQL databases Build web applications with Spring Boot Apply REST APIs using Spring Boot Create reactive web applications using Spring Web Reactive Secure your Spring Boot applications or web services Test and deploy your Spring Boot applications Who This Book Is For Experienced Java and Spring Framework developers who are new to the new Spring Boot micro-

framework.

*An In-Depth Guide to the Spring Framework and Its Tools* John Wiley & Sons

Summary A developer-focused guide to writing applications using Spring Boot. You'll learn how to bypass the tedious configuration steps so that you can concentrate on your application's behavior. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The Spring Framework simplifies enterprise Java development, but it does require lots of tedious configuration work. Spring Boot radically streamlines spinning up a Spring application. You get automatic configuration and a model with established conventions for build-time

and runtime dependencies. You also get a handy command-line interface you can use to write scripts in Groovy.

Developers who use Spring Boot often say that they can't imagine going back to hand configuring their applications. About the Book *Spring Boot in Action* is a developer-focused guide to writing applications using Spring Boot. In it, you'll learn how to bypass configuration steps so you can focus on your application's behavior. Spring expert Craig Walls uses interesting and practical examples to teach you both how to use the default settings effectively and how to override and customize Spring Boot for your unique environment. Along the way, you'll pick up insights from Craig's years of Spring development experience. What's Inside



Develop Spring apps more efficiently  
Minimal to no configuration Runtime  
metrics with the Actuator Covers Spring  
Boot 1.3 About the Reader Written for  
readers familiar with the Spring  
Framework. About the Author Craig  
Walls is a software developer, author of  
the popular book Spring in Action, Fourth  
Edition, and a frequent speaker at  
conferences. Table of Contents  
Bootstarting Spring Developing your first  
Spring Boot application Customizing  
configuration Testing with Spring Boot  
Getting Groovy with the Spring Boot CLI  
Applying Grails in Spring Boot Taking a  
peek inside with the Actuator Deploying  
Spring Boot applications APPENDIXES  
Spring Boot developer tools Spring Boot  
starters Configuration properties Spring  
Boot dependencies

**Cloud Native Java** CreateSpace  
Spring Roo goes a step beyond the  
Spring Framework by bringing true Rapid  
Application Development to Java—just as  
Grails has done with Groovy. This  
concise introduction shows you how to  
build applications with Roo, using the  
framework's shell as an intelligent and  
timesaving code-completion tool. It's an  
ideal RAD tool because Roo does much  
of the tedious code maintenance. You'll  
get started by building a simple  
customer relationship management  
application, complete with step-by-step  
instructions and code examples. Learn  
how to control any part of the  
application with Roo's opt-in feature,  
while using this open source framework  
to automate the rest of the code. Set up  
a Spring application and working Maven

build to see Roo in action Address persistence with JPA and the Neo4j graph database—and learn how Roo supports NoSQL databases Use Roo's database reverse-engineering feature to generate a data model from an existing schema Build Roo applications with Spring MVC, Spring WebFlow, Google Web Toolkit, Vaadin, and other web frameworks Secure and test your application *A hands-on guide to creating clean web applications with code examples in Java* "O'Reilly Media, Inc."

Summary Spring Microservices in Action teaches you how to build microservice-based applications using Java and the Spring platform. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology

Microservices break up your code into small, distributed, and independent services that require careful forethought and design. Fortunately, Spring Boot and Spring Cloud simplify your microservice applications, just as the Spring Framework simplifies enterprise Java development. Spring Boot removes the boilerplate code involved with writing a REST-based service. Spring Cloud provides a suite of tools for the discovery, routing, and deployment of microservices to the enterprise and the cloud. About the Book Spring Microservices in Action teaches you how to build microservice-based applications using Java and the Spring platform. You'll learn to do microservice design as you build and deploy your first Spring Cloud application. Throughout the book,

Carefully selected real-life examples expose microservice-based patterns for configuring, routing, scaling, and deploying your services. You'll see how Spring's intuitive tooling can help augment and refactor existing applications with micro services. What's Inside Core microservice design principles Managing configuration with Spring Cloud Config Client-side resiliency with Spring, Hystrix, and Ribbon Intelligent routing using Netflix Zuul Deploying Spring Cloud applications About the Reader This book is written for developers with Java and Spring experience. About the Author John Carnell is a senior cloud engineer with twenty years of experience in Java. Table of contents Welcome to the cloud, Spring Building microservices with Spring Boot

Controlling your configuration with Spring Cloud configuration server On service discovery When bad things happen: client resiliency patterns with Spring Cloud and Netflix Hystrix Service routing with Spring Cloud and Zuul Securing your microservices Event-driven architecture with Spring Cloud Stream Distributed tracing with Spring Cloud Sleuth and Zipkin Deploying your microservices *Designing, Building, and Deploying Messaging Solutions* Brainy Software Inc Use Spring Boot to build lightning-fast apps About This Book Get up to date with the defining characteristics of Spring Boot 2.0 in Spring Framework 5 Learn to perform Reactive programming with SpringBoot Learn about developer tools, AMQP messaging, WebSockets,

security, MongoDB data access, REST, and more Who This Book Is For This book is designed for both novices and experienced Spring developers. It will teach you how to override Spring Boot's opinions and frees you from the need to define complicated configurations. What You Will Learn Create powerful, production-grade applications and services with minimal fuss Support multiple environments with one artifact, and add production-grade support with features Find out how to tweak your apps through different properties Use custom metrics to track the number of messages published and consumed Enhance the security model of your apps Make use of reactive programming in Spring Boot Build anything from lightweight unit tests to fully running

embedded web container integration tests In Detail Spring Boot provides a variety of features that address today's business needs along with today's scalable requirements. In this book, you will learn how to leverage powerful databases and Spring Boot's state-of-the-art WebFlux framework. This practical guide will help you get up and running with all the latest features of Spring Boot, especially the new Reactor-based toolkit. The book starts off by helping you build a simple app, then shows you how to bundle and deploy it to the cloud. From here, we take you through reactive programming, showing you how to interact with controllers and templates and handle data access. Once you're done, you can start writing unit tests, slice tests, embedded container

tests, and even autoconfiguration tests. We go into detail about developer tools, AMQP messaging, WebSockets, security, and deployment. You will learn how to secure your application using both routes and method-based rules. By the end of the book, you'll have built a social media platform from which to apply the lessons you have learned to any problem. If you want a good understanding of building scalable applications using the core functionality of Spring Boot, this is the book for you. Style and approach This book takes a tutorial-based approach to teach you all you need to know to get up and running with the latest version of Spring Boot. Filled with examples, you will gain hands-on experience of every area that Spring tackles.

*Spring Microservices in Action* Addison-Wesley Professional

The latest version of a bestseller upgraded for Spring 5.3 and Spring Boot 2.4, *Spring in Action*, Sixth Edition also covers the RSocket specification for reactive networking between applications and delves deep into essential features of Spring Security. *Spring in Action*, Sixth Edition guides you through Spring's core features explained in Craig Walls' famously clear style. You'll roll up your sleeves and build a secure database-backed web app step by step. Along the way, you'll explore reactive programming, microservices, service discovery, RESTful APIs, deployment, and expert best practices. The latest version of a bestseller upgraded for Spring 5.3 and Spring Boot

2.4, Spring in Action, Sixth Edition also covers the RSocket specification for reactive networking between applications and delves deep into essential features of Spring Security. Whether you're just discovering Spring or leveling up to Spring 5.3, this Manning classic is your ticket! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

*Mastering Spring Boot 2.0* Simon and Schuster

Implement JPA repositories and harness the performance of Redis in your applications.

Spring Boot: Up and Running Simon and Schuster

The practice of enterprise application development has benefited from the

emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. Patterns of Enterprise Application Architecture is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted

and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is a short tutorial on developing enterprise applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the

concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include · Dividing an enterprise application into layers · The major approaches to organizing business logic · An in-depth treatment of mapping between objects and relational databases · Using Model-View-Controller to organize a Web presentation · Handling concurrency for data that spans multiple transactions · Designing distributed object interfaces

**Designing, Building, and Deploying Messaging Solutions** Createspace Independent Pub

Quickly and productively develop

complex Spring applications and microservices - out of the box - with minimal fuss on things like configurations. This book will show you how to fully leverage the Spring Boot productivity suite of tools and how to apply them through the use of case studies. Pro Spring Boot is your authoritative hands-on practical guide for increasing your Spring Framework-based enterprise Java and cloud application productivity while decreasing development time using the Spring Boot productivity suite of tools. It's a no nonsense guide with case studies of increasing complexity throughout the book. This book is written by Felipe Gutierrez, a Spring expert consultant who works with Pivotal, the company behind the popular Spring Framework.

What You Will Learn Write your first Spring Boot application Configure Spring Boot Use the Spring Boot Actuator Carry out web development with Spring Boot Build microservices with Spring Boot Handle databases and messaging with Spring Boot Test and deploy with Spring Boot Extend Spring Boot and its available plug-ins Who This Book Is For Experienced Spring and Java developers seeking increased productivity gains and decreased complexity and development time in their applications and software services.

Expert One-on-One J2EE Design and Development Simon and Schuster Chapter 1 of this book is now available online: [bit.ly/2z8ErGg](https://bit.ly/2z8ErGg) 4th Edition reflects changes to Spring 5, and includes new chapters on Functional and Reactive



application development. Reactive application development chapters cover Reactive Streams specification, RxJava 2, Reactor, Spring WebFlux, and reactive support in Spring Data and Spring Security. The examples (consisting of 88 sample projects) that accompany this book are based on Spring 5.0.1 and Java 9. You can download the examples described in this book from the following GitHub project: [github.com/getting-started-with-spring/4thEdition](https://github.com/getting-started-with-spring/4thEdition) This book covers:

- Spring Framework basics
- Aspect-oriented programming
- Database interaction using Spring and Hibernate/JPA
- Spring Data JPA
- Spring Data MongoDB
- Messaging, emailing and caching support
- Spring Web MVC
- Developing RESTful web services using Spring Web MVC
- Functional

programming using lambdas and method references

- Stream API
- Reactive programming using RxJava 2 and Reactor
- Spring WebFlux
- Reactive support in Spring Data MongoDB and Spring Security
- Developing reactive RESTful web services using Spring WebFlux, Spring Security and Spring Data MongoDB

*Enterprise Integration Patterns* Packt Publishing Ltd

Learn various design patterns and best practices in Spring 5 and use them to solve common design problems. About This Book Explore best practices for designing an application Manage your code easily with Spring's Dependency Injection pattern Understand the benefits that the right design patterns can offer your toolkit Who This Book Is For This

book is for developers who would like to use design patterns to address common problems while designing an app using the Spring Framework and Reactive Programming approach. A basic knowledge of the Spring Framework and Java is assumed. What You Will Learn

- Develop applications using dependency injection patterns
- Learn best practices to design enterprise applications
- Explore Aspect-Oriented Programming relating to transactions, security, and caching.
- Build web applications using traditional Spring MVC patterns
- Learn to configure Spring using XML, annotations, and Java.
- Implement caching to improve application performance.
- Understand concurrency and handle multiple connections inside a web server.
- Utilizing Reactive Programming Pattern

to build Reactive web applications. In Detail Design patterns help speed up the development process by offering well tested and proven solutions to common problems. These patterns coupled with the Spring framework offer tremendous improvements in the development process. The book begins with an overview of Spring Framework 5.0 and design patterns. You will understand the Dependency Injection pattern, which is the main principle behind the decoupling process that Spring performs, thus making it easier to manage your code. You will learn how GoF patterns can be used in Application Design. You will then learn to use Proxy patterns in Aspect Oriented Programming and remoting. Moving on, you will understand the JDBC template patterns and their use in

abstracting database access. Then, you will be introduced to MVC patterns to build Reactive web applications. Finally, you will move on to more advanced topics such as Reactive streams and Concurrency. At the end of this book, you will be well equipped to develop efficient enterprise applications using Spring 5 with common design patterns Style and approach The book takes a pragmatic approach, showing various design patterns and best-practice considerations, including the Reactive programming approach with the Spring 5 Framework and ways to solve common development and design problems for enterprise applications.

**Getting started with Spring Framework: covers Spring 5 (4th Edition)** Packt Publishing Ltd

With over 75 million downloads per month, Spring Boot is the most widely used Java framework available. Its ease and power have revolutionized application development from monoliths to microservices. Yet Spring Boot's simplicity can also be confounding. How do developers learn enough to be productive immediately? This practical book shows you how to use this framework to write successful mission-critical applications. Mark Heckler from VMware, the company behind Spring, guides you through Spring Boot's architecture and approach, covering topics such as debugging, testing, and deployment. If you want to develop cloud native Java or Kotlin applications with Spring Boot rapidly and effectively-- using reactive programming, building

APIs, and creating database access of all kinds--this book is for you. Learn how Spring Boot simplifies cloud native application development and deployment Build reactive applications and extend communication across the network boundary to create distributed systems Understand how Spring Boot's architecture and approach increase developer productivity and application portability Deploy Spring Boot applications for production workloads rapidly and reliably Monitor application and system health for optimal performance and reliability Debug, test, and secure cloud-based applications painlessly

*Reactive Spring* Packt Publishing Ltd  
Master Spring basics and core topics, and share the authors' insights and

real-world experiences with remoting, Hibernate, and EJB. Beyond the basics, you'll learn how to leverage the Spring Framework to build the various tiers and parts of an enterprise Java application: transactions, web and presentation tiers, deployment, and much more. A full sample application allows you to apply many of the technologies and techniques covered in *Pro Spring 5* and see how they work together. This book updates the perennial bestseller with the latest that the new Spring Framework 5 has to offer. Now in its fifth edition, this popular title is by far the most comprehensive and definitive treatment of Spring available. It covers the new functional web framework and interoperability with Java 9. After reading this definitive book, you'll be armed with

the power of Spring to build complex Spring applications, top to bottom. The agile, lightweight, open-source Spring Framework continues to be the de facto leading enterprise Java application development framework for today's Java programmers and developers. It works with other leading open-source, agile, and lightweight Java technologies such as Hibernate, Groovy, MyBatis, and more. Spring now works with Java EE and JPA 2 as well. What You'll Learn Discover what's new in Spring Framework 5 Use the Spring Framework with Java 9 Master data access and transactions Work with the new functional web framework Create microservices and other web services Who This Book Is For Experienced Java and enterprise Java developers and programmers. Some

experience with Spring highly recommended.

**Spring 5 Design Patterns** Packt Publishing Ltd

Summary Portlets in Action is a comprehensive, hands-on guide to building portlet-driven applications in Java. Covers Portlet 2.0, Spring 3.0 Portlet MVC, WSRP 2.0, Portlet Bridges, Ajax, Comet, Liferay, GateIn, Spring JDBC, and Hibernate. About the Technology Portlets are the small Java applications that run within a portal. Good portlets work independently and also communicate fluently with the portal, other portlets, as well as outside servers and information sources. Using Java's Portlet 2.0 API and portal servers like Liferay, you can build flexible, stable business portals without the design

overhead required by other application styles. About the Book Portlets in Action is a comprehensive guide to building portlet-driven applications in Java. It teaches portlet development hands-on as you develop a portal that incorporates most key features of the Portlet 2.0 API. And because portals and portlets are so flexible, the accompanying source code can be easily adapted and reused. Along the way, you'll learn how to work with key web frameworks like Spring 3.0 Portlet MVC and DWR. Written for Java developers. No prior experience with portlets required Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Complete coverage of the Portlet 2.0 API Spring 3.0 Portlet MVC

and the Liferay portal server Portal design best practices Reusable source code  
 =====  
 ===== Table of Contents PART 1 GETTING STARTED WITH PORTLET DEVELOPMENT Introducing portals and portlets The portlet lifecycle Portlet 2.0 API - portlet objects and container-runtime options Portlet 2.0 API - caching, security, and localization Building your own portal Using the portlet tag library PART 2 DEVELOPING PORTLETS USING SPRING AND HIBERNATE Getting started with Spring Portlet MVC Annotation-driven development with Spring Integrating portlets with databases PART 3 ADVANCED PORTLET DEVELOPMENT Personalizing portlets Communicating with other portlets Ajaxing portlets

Reusable logic with portlet filters Portlet  
bridges Web Services for Remote  
Portlets (WSRP)

*Spring MVC: A Tutorial (Second Edition)*  
Apress

\* 1st and only book to market on the  
open source Spring MVC and Web Flows,  
positioned to become the new "Struts." \*  
Will be the only authoritative solution, by  
the Spring MVC and Spring Web Flows  
project leads themselves. \* Two markets  
for this book. 1) Ex-patriots from the  
Struts world who have developed  
numerous web applications, but are  
looking for more and willing to take the  
initiative to experiment with new  
solutions; and 2) early adopter web  
developers into Web Flow, which has  
created a lot of buzz and will generate  
interest around this book as well as

Spring MVC.

Portlets in Action Createspace  
Independent Publishing Platform

Get a concise introduction to Spring, the  
popular open source framework for  
building lightweight enterprise  
applications on the Java platform. This  
example-driven book for Java developers  
delves into the framework's basic  
features, as well as complex concepts  
such as containers. You'll learn how  
Spring makes Java Messaging Service  
easier to work with, and how its support  
for Hibernate helps you work with data  
persistence and retrieval. In this revised  
edition of Just Spring, you'll get your  
hands deep into sample code, beginning  
with a problem that illustrates Spring's  
core principle: dependency injection. In  
the chapters that follow, author

Madhusudhan Konda walks you through features that underlie the solution. Dive into the new chapter on advanced concepts, such as bean scopes and property editors Learn dependency injection through a simple object coupling problem Tackle the framework's core fundamentals,

including beans and bean factories Discover how Spring makes the Java Messaging Service API easier to use Learn how Spring has revolutionized data access with Java DataBase Connectivity (JDBC) Use Spring with the Hibernate framework to manipulate data as objects

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