

## ***Spring Mvc Beginners***

***A step-by-step pragmatic approach to web application development using Spring MVC, with relevant screenshots and concise explanations. This book is aimed at helping Java developers who want to teach themselves Spring MVC, even if they have no previous experience with Spring MVC. It would be helpful to have a bit of familiarity with basic servlet programming concepts, but no prior experience is required.***

***\* 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.***

***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***

***The release of Spring framework 2.0 has added many improvements and new features to the 1.x version. Spring 2.5 Recipes: A Problem Solution Approach focuses on the latest available Spring 2.x fundamentals that you require for building a three tier Java EE application with web interface and database persistence.***

***Servlet and JavaServer Pages (JSP) are the underlying technologies for developing web applications in Java. They are essential for any programmer to master in order to effectively use frameworks such as JavaServer Faces, Struts 2, or Spring MVC. Covering Servlet 3.1 and JSP 2.3, this book explains the important programming concepts and design models in Java web development as well as related technologies and new features in the latest versions of Servlet and JSP. With comprehensive coverage and a lot of examples, this book is a guide to building real-world applications.***

***Spring Microservices in Action  
Enterprise Integration Patterns  
Mastering Spring 5.0***

**Expert Spring MVC and Web Flow  
Beginning Spring**

**"Developing your first Spring MVC web application is fun. In this course, you will learn the basics of developing a basic Todo management application using Spring MVC with login and logout functionalities. You will build the website step by step in 25 steps. This course would be a perfect first step as an introduction to Java web application development. You will be using Spring (dependency management), Spring MVC, Spring Security (authentication and authorization), Bootstrap (styling pages), Maven (dependency management), Eclipse (IDE), and Tomcat web server. We will help you set up each one of these."--Resource description page.**

**Develop your coding skills by exploring Java concepts and techniques such as Strings, Objects and Types, Data Structures and Algorithms, Concurrency, and Functional programming Key Features Solve Java programming challenges and get interview-ready by using the power of modern Java 11 Test your Java skills using language features, algorithms, data structures, and design patterns Explore areas such as web development, mobile development, and GUI programming Book Description The super-fast evolution of the JDK between versions 8 and 12 has increased the learning curve of modern Java, therefore has increased the time needed for placing developers in the Plateau of Productivity. Its new features and concepts can be adopted to solve a variety of modern-day problems. This book enables you to adopt an objective approach to common problems by explaining the correct practices and decisions with respect to complexity, performance, readability, and more. Java Coding Problems will help you complete your daily tasks and meet deadlines. You can count on the 300+ applications containing 1,000+ examples in this book to cover the common and fundamental areas of interest: strings, numbers, arrays, collections, data structures, date and time, immutability, type inference, Optional, Java I/O, Java Reflection, functional programming, concurrency and the HTTP Client API. Put your skills on steroids with problems that have been carefully crafted to highlight and cover the core knowledge that is accessed in daily work. In other words (no matter if your task is easy, medium or complex) having this knowledge under your tool belt is a must, not an option. By the end of this book, you will have gained a strong understanding of Java concepts and have the confidence to develop and choose the right solutions to your problems. What you will learn Adopt the latest JDK 11 and JDK 12 features in your applications Solve cutting-edge problems relating to collections and data structures Get to grips with functional-style programming using lambdas Perform asynchronous communication and parallel data processing Solve strings and number problems using the latest Java APIs Become familiar with different aspects of object immutability in Java Implement the correct practices and clean**

**code techniques Who this book is for If you are a Java developer who wants to level-up by solving real-world problems, then this book is for you. Working knowledge of Java is required to get the most out of this book. Over 40 recipes for creating cloud-ready Java web applications with Spring MVC About This Book Configure Spring MVC to build logic-less controllers that transparently support the most advanced web techniques Build an amazing social and financial application that applies microservices patterns on deployment, self-testability, interoperability, cloud architectures, and scalability Fast-paced, practical guide to learn how to set up Spring MVC to produce REST resources and templates as required by the latest front-end best practices Who This Book Is For If you are an experienced Java developer, with prior experience in web technologies, and want to step up in your career and stay up-to-date or learn more about Spring Web scalability, this book is for you. What You Will Learn Structure your project with Maven and create self-tested, domain-specific deployable web archives Generate templates for a responsive and powerful frontend with AngularJS and Bootstrap Build a high performance stateless RESTful and hypermedia application to support your multiple customer experiences Authenticate over REST with a BASIC authentication scheme and OAuth2; handle roles and permissions Document and publish your REST API using Swagger and Swagger UI Scale your Spring web application Communicate through WebSocket and STOMP messages Provide support to your application and efficiently maintain its business features with a relevant test stack In Detail Spring MVC is a lightweight application framework that comes with a great configuration by default. Being part of the Spring Framework, it naturally extended and supported it with an amazing set of recognizable annotations. External libraries can be plugged in and plugged out. It also possesses a request flow. Complete support of REST web services makes the Spring architecture an extremely consistent choice to support your front-end needs and Internet transformations. From the design of your Maven modules, you will achieve an Enterprise-standard for a stateless REST application based on Spring and Spring MVC with this book. This guide is unique in its style as it features a massive overview of practical development techniques brought together from the Spring ecosystem, the new JEE standards, the JavaScript revolution and Internet of Things. You will begin with the very first steps of Spring MVC's product design. Focused on deployment, viability, and maintainability, you will learn the use of Eclipse, Maven, and Git. You will walk through the separation of concerns driven by the microservices principles. Using Bootstrap and AngularJS, you will develop a responsive front-end, capable of interacting autonomously with a REST API. Later in the book, you will setup the Java Persistence API (JPA) within Spring; learn how to configure your Entities to reflect your domain needs, and discover Spring Data**

**repositories. You will analyze how Spring MVC responds to complex HTTP requests. You will implement Hypermedia and HATEOAS to guide your customer's stateless conversation with the product and see how a messaging-service based on WebSocket can be configured. Finally you will learn how to set up and organize different levels of automated-tests, including logging and monitoring. Style and approach A comprehensive, recipe-based guide to creating stunning Java apps with Spring MVC as a result of learning and implementing pro-level practices, techniques, and solutions.**

**Develop cloud native applications with microservices using Spring Boot, Spring Cloud, and Spring Cloud Data Flow About This Book Explore the new features and components in Spring Evolve towards micro services and cloud native applications Gain powerful insights into advanced concepts of Spring and Spring Boot to develop applications more effectively Understand the basics of Kotlin and use it to develop a quick service with Spring Boot Who This Book Is For This book is for an experienced Java developer who knows the basics of Spring, and wants to learn how to use Spring Boot to build applications and deploy them to the cloud. What You Will Learn Explore the new features in Spring Framework 5.0 Build microservices with Spring Boot Get to know the advanced features of Spring Boot in order to effectively develop and monitor applications Use Spring Cloud to deploy and manage applications on the Cloud Understand Spring Data and Spring Cloud Data Flow Understand the basics of reactive programming Get to know the best practices when developing applications with the Spring Framework Create a new project using Kotlin and implement a couple of basic services with unit and integration testing In Detail Spring 5.0 is due to arrive with a myriad of new and exciting features that will change the way we've used the framework so far. This book will show you this evolution—from solving the problems of testable applications to building distributed applications on the cloud. The book begins with an insight into the new features in Spring 5.0 and shows you how to build an application using Spring MVC. You will realize how application architectures have evolved from monoliths to those built around microservices. You will then get a thorough understanding of how to build and extend microservices using Spring Boot. You will also understand how to build and deploy Cloud-Native microservices with Spring Cloud. The advanced features of Spring Boot will be illustrated through powerful examples. We will be introduced to a JVM language that's quickly gaining popularity - Kotlin. Also, we will discuss how to set up a Kotlin project in Eclipse. By the end of the book, you will be equipped with the knowledge and best practices required to develop microservices with the Spring Framework. Style and approach This book follows an end-to-end tutorial approach with lots of examples and sample applications, covering**

*the major building blocks of the Spring framework.*

*Unleash the power of the latest Spring MVC 4.x to develop a complete application About This Book- Work through carefully crafted exercises with detailed explanations for each step will help you understand the concepts with ease- You will gain a clear understanding of the end-to-end request/response life cycle, and each logical component's responsibility- This book is packed with tips and tricks that demonstrate industry best practices on developing a Spring-MVC-based application Who This Book Is For The book is for Java developers who want to exploit Spring MVC and its features to build web applications. Some familiarity with basic servlet programming concepts would be a plus, but is not a prerequisite. What You Will Learn- Familiarize yourself with the anatomy of the Spring 4.X development environment- Understand web application architecture and the Spring MVC request flow- Integrate bean validation and custom validation- Use error handling and exception resolving- Get to grips with REST-based web service development and Ajax- Test your web application In Detail Spring MVC helps you build flexible and loosely coupled web applications. The Spring MVC Framework is architected and designed in such a way that every piece of logic and functionality is highly configurable. Also, Spring can integrate effortlessly with other popular web frameworks such as Struts, WebWork, Java Server Faces, and Tapestry. The book progressively teaches you to configure the Spring development environment, architecture, controllers, libraries, and more before moving on to developing a full web application. It begins with an introduction to the Spring development environment and architecture so you're familiar with the know-hows. From here, we move on to controllers, views, validations, Spring Tag libraries, and more. Finally, we integrate it all together to develop a web application. You'll also get to grips with testing applications for reliability. Style and approach This book takes a pragmatic step-by-step approach to web application development using Spring MVC, with informative screenshots and concise explanation.*

*Spring Mvc Tutorial for Beginners with Example*

*Java Coding Problems*

*Spring Start Here*

*Cloud Native Java*

*Designing Resilient Systems with Spring Boot, Spring Cloud, and Cloud Foundry*

*Spring Boot: Up and Running*

Spring MVC Framework is an open source Java platform that provides comprehensive infrastructure support for developing robust Java based Web applications very easily and very rapidly. Spring Framework was initially written by Rod Johnson and was first released under the Apache 2.0 license in June 2003. This tutorial is written based on the Spring Framework Version 4.1.6

released in March 2015. Audience This tutorial is designed for Java programmers with a need to understand the Spring MVC Framework in detail along with its architecture and actual usage. This tutorial is intended to make you comfortable in getting started with the Spring MVC Framework and its various functions. Prerequisites This tutorial is designed for Java programmers with a need to understand the Spring MVC Framework in detail along with its architecture and actual usage. This tutorial will bring you at the intermediate level of expertise from where you can take yourself to a higher level of expertise. 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 plugins 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.

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

Summary Spring in Action, 5th Edition is the fully updated revision of Manning's bestselling Spring in Action. This new edition includes all Spring 5.0 updates, along with new examples on reactive programming, Spring WebFlux, and microservices. You'll also find the latest Spring best practices, including Spring Boot for application setup and configuration. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Spring Framework makes life easier for Java developers. New features in Spring 5 bring its productivity-focused approach to microservices, reactive development, and other modern application designs. With Spring Boot now fully integrated, you can start even complex projects with minimal configuration code. And the upgraded WebFlux framework supports reactive apps right out of the box! About the Book Spring in Action, 5th 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. Whether you're just discovering Spring or leveling up to Spring 5.0, this Manning classic is your ticket! What's inside Building reactive applications Spring MVC for web apps and RESTful web services Securing applications with Spring Security Covers Spring 5.0 Over 100,000 copies sold! About the Reader For intermediate Java developers. About the Author Craig Walls is a principal software engineer at Pivotal, a popular author, an enthusiastic supporter of Spring Framework, and a frequent conference speaker. Table of Contents PART 1 - FOUNDATIONAL SPRING Getting started with Spring Developing web applications Working with data Securing Spring Working with configuration properties PART 2 - INTEGRATED SPRING Creating REST services Consuming REST services Sending messages asynchronously Integrating Spring PART 3 - REACTIVE SPRING Introducing Reactor Developing reactive APIs Persisting data reactively PART 4 CLOUD-NATIVE SPRING Discovering services Managing configuration Handling failure and latency PART 5 - DEPLOYED SPRING Working with Spring Boot Actuator Administering Spring Monitoring Spring with JMX Deploying Spring A complete guide to build robust and scalable web applications with Spring and Angular. About This Book This hands on guide will teach you how to build an end-

to-end modern web application using Spring and Angular. It is easy to read and will benefit Java developers who have been used to develop the back-end part of web application while front-end (UI) has been left for UI developers. Learn the core aspects involved in developing the backend and the UI, right from designing to integrating and deploying. Who This Book Is For This book is targeted towards Java Web Developers with a basic knowledge of Spring who want to build complete web applications in a fast and effective way. They will want to gain a stronghold on both frontend and backend development to advance in their careers. What You Will Learn Set up development environment for Spring Web App and Angular app. Process web request and response and build REST API endpoints. Create data access components using Spring Web MVC framework and Hibernate Use Junit 5 to test your application Learn the fundamental concepts around building Angular Configure and use Routes and Components. Protect Angular app content from common web vulnerabilities and attacks. Integrate Angular apps with Spring Boot Web API endpoints Deploy the web application based on CI and CD using Jenkins and Docker containers In Detail Spring is the most popular application development framework being adopted by millions of developers around the world to create high performing, easily testable, reusable code. Its lightweight nature and extensibility helps you write robust and highly-scalable server-side web applications. Coupled with the power and efficiency of Angular, creating web applications has never been easier. If you want build end-to-end modern web application using Spring and Angular, then this book is for you. The book directly heads to show you how to create the backend with Spring, showing you how to configure the Spring MVC and handle Web requests. It will take you through the key aspects such as building REST API endpoints, using Hibernate, working with Junit 5 etc. Once you have secured and tested the backend, we will go ahead and start working on the front end with Angular. You will learn about fundamentals of Angular and Typescript and create an SPA using components, routing etc. Finally, you will see how to integrate both the applications with REST protocol and deploy the application using tools such as Jenkins and Docker. Style and approach This is a straightforward guide that shows how to build a complete web application in Angular and Spring.

Pro Spring MVC: With Web Flow

Build Java Web App in 25 Steps

A Problem-Solution Approach

Designing, Building, and Deploying Messaging Solutions

Spring MVC for Beginners

Pro Spring Boot

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.

Spring MVC: Designing Real-World Web ApplicationsPackt Publishing Ltd

Unleash the power of the latest Spring MVC 4.x to develop a complete application About This Book Work through carefully crafted exercises with detailed explanations for each step will help you understand the concepts with ease You will gain a clear understanding of the end-to-end request/response life cycle, and each logical component's responsibility This book is packed with tips and tricks that demonstrate industry best practices on developing a Spring-MVC-based application Who This Book Is For The book is for Java developers who want to exploit Spring MVC and its features to build web applications. Some familiarity with basic servlet programming concepts would be a plus, but is not a prerequisite. What You Will Learn Familiarize yourself with the anatomy of the Spring 4.X development environment Understand web application architecture and the Spring MVC request flow Integrate bean validation and custom validation Use error handling and exception resolving Get to grips with REST-based web service development and Ajax Test your web application In Detail Spring MVC helps you build flexible and loosely coupled web applications. The Spring MVC Framework is architected and designed in such a way that every piece of logic and functionality is highly configurable. Also, Spring can integrate effortlessly with other popular web frameworks such as Struts, WebWork, Java Server Faces, and Tapestry. The book progressively teaches you to configure the Spring development environment, architecture, controllers, libraries, and more before moving on to

developing a full web application. It begins with an introduction to the Spring development environment and architecture so you're familiar with the know-hows. From here, we move on to controllers, views, validations, Spring Tag libraries, and more. Finally, we integrate it all together to develop a web application. You'll also get to grips with testing applications for reliability. Style and approach This book takes a pragmatic step-by-step approach to web application development using Spring MVC, with informative screenshots and concise explanation.

Solve all your Spring 5 problems using complete and real-world code examples. When you start a new project, you ' ll be able to copy the code and configuration files from this book, and then modify them for your needs. This can save you a great deal of work over creating a project from scratch. The recipes in Spring 5 Recipes cover Spring fundamentals such as Spring IoC container, Spring AOP/ AspectJ, and more. Other recipes include Spring enterprise solutions for topics such as Spring Java EE integration, Spring Integration, Spring Batch, Spring Remoting, messaging, transactions, and working with big data and the cloud using Hadoop and MongoDB. Finally, Spring web recipes cover Spring MVC, other dynamic scripting, integration with the popular Grails Framework (and Groovy), REST/web services, and more. You ' ll also see recipes on new topics such as Spring Framework 5, reactive Spring, Spring 5 microservices, the functional web framework and much more. This book builds upon the best-selling success of the previous editions and focuses on the latest Spring Framework features for building enterprise Java applications. What You'll Learn Get re-usable code recipes and snippets for core Spring, annotations and other development tools Access Spring MVC for web development Work with Spring REST and microservices for web services development and integration into your enterprise Java applications Use Spring Batch, NoSQL and big data for building and integrating various cloud computing services and resources Integrate Java Enterprise Edition and other Java APIs for use in Spring Use Grails code and much more Who This Book Is For Experienced Java and Spring programmers.

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

Spring MVC Tutorial:learn Spring Mvc Step by Step

Spring MVC Beginner ' s Guide

Spring in Action

Spring 5 Design Patterns

Spring MVC For Beginners

Learn what You Need and Learn it Well

Microservices and big-data increasingly confront us with the limitations of traditional input/output. In traditional IO, work that is IO-bound dominates threads. This wouldn't be such a big deal if we could add more threads cheaply, but threads are expensive on the JVM, and most other platforms. Even if threads were cheap and infinitely scalable, we'd still be confronted with the faulty nature of networks. Things break, and they often do so in subtle, but non-exceptional ways. Traditional approaches to integration bury the faulty nature of networks behind overly simplifying abstractions. We need something better. Join Spring Developer Advocate Josh Long for an introduction to reactive programming in the Spring ecosystem, leveraging the reactive streams specification, Reactor, Spring Boot, Spring Cloud and so much more. This book will cover important concepts in reactive programming including project Reactor and the reactive streams specification, data access, web programming, RPC with protocols like RSocket, testing, and integration and composition, and more.

Beginning Spring Framework 2 shows beginning Java developers how to build serverside Java applications using the latest 2.0 release of the Spring Framework. The book does not assume any previous knowledge of J2EE--in fact, the authors argue that beginners learn more quickly by starting directly with Spring. · Jump Start Spring 2 · Designing Spring Applications · Spring Persistence Using JPA · Using Spring MVC To Build Web Pages · Advanced Spring MVC · Spring Web Flow · Ajax And Spring Direct Web Remoting Integration · Spring And JMS - Message-Driven Pojos · Spring Web Services And Remoting · Web Service Consumer And Interoperation With NET · Rapid Spring Development With Spring IDE · Spring AOP And Aspectj · More AOP Transactions

If you need to learn Spring, look no further than this widely beloved and comprehensive guide! Fully revised for Spring 5.3, and packed with interesting real-world examples to get your hands dirty with Spring.

In *Spring in Action*, 6th Edition you will learn: Building reactive applications Relational and NoSQL databases Integrating via HTTP and REST-based services, and sand reactive RSocket services Reactive programming techniques Deploying applications to traditional servers and containers Securing applications with Spring Security Over the

years, Spring in Action has helped tens of thousands of developers get a major productivity boost from Spring. This new edition of the classic bestseller covers all of the new features of Spring 5.3 and Spring Boot 2.4 along with examples of reactive programming, Spring Security for REST Services, and bringing reactivity to your databases. You'll also find the latest Spring best practices, including Spring Boot for application setup and configuration. About the technology Spring is required knowledge for Java developers! Why? This powerful framework eliminates a lot of the tedious configuration and repetitive coding tasks, making it easy to build enterprise-ready, production-quality software. The latest updates bring huge productivity boosts to microservices, reactive development, and other modern application designs. It's no wonder over half of all Java developers use Spring. About the book Spring in Action, Sixth Edition is a comprehensive guide to Spring's core features, all explained in Craig Walls' famously clear style. You'll put Spring into action as you build a complete database-backed web app step-by-step. This new edition covers both Spring fundamentals and new features such as reactive flows, Kubernetes integration, and RSocket. Whether you're new to Spring or leveling up to Spring 5.3, make this classic bestseller your bible!

What's inside

- Relational and NoSQL databases
- Integrating via RSocket
- REST-based services
- Reactive programming techniques
- Deploying applications to traditional servers and containers

About the reader

For beginning to intermediate Java developers.

About the author

Craig Walls is an engineer at VMware, a member of the Spring engineering team, a popular author, and a frequent conference speaker.

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Pro Spring MVC provides in-depth coverage of Spring MVC and Spring Web Flow, two highly customizable and powerful web frameworks brought to you by the developers and community of the Spring Framework. Spring MVC is a modern web application framework built upon the Spring Framework, and Spring Web Flow is a project that complements Spring MVC for building reusable web controller modules that encapsulate rich page navigation rules. Along with detailed analysis of the code and functionality, plus the first published coverage of Spring Web Flow 2.x, this book includes numerous tips and tricks to help you get the most out of Spring MVC, Spring Web Flow, and web development in general. Spring MVC and Spring Web Flow have been upgraded in the new Spring Framework 3.1 and are engineered with important considerations for design patterns and expert object-oriented programming techniques. This book explains not only the design decisions of the frameworks, but also how you can apply similar designs and techniques to your own

code. This book takes great care in covering every inch of Spring MVC and Spring Web Flow to give you the complete picture. Along with all the best known features of these frameworks, you'll discover some new hidden treasures. You'll also learn how to correctly and safely extend the frameworks to create customized solutions. This book is for anyone who wishes to write robust, modern, and useful web applications with the Spring Framework.

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

Spring Security in Action

Building Web Apps with Spring 5 and Angular

From Novice to Professional

Spring MVC Beginner's Guide - Second Edition

Spring 5 Recipes

Spring Recipes: A Problem-Solution Approach

Unleash the power of Spring MVC and build enterprise-grade, lightning-fast web applications About This Book Configure Spring MVC to build logic-less controllers that transparently support the most advanced web techniques Secure your developments with easy-to-write, reliable unit and end-to-end tests Get this fast-

paced, practical guide to produce REST resources and templates as required by the latest front-end best practices Who This Book Is For This Learning Path is for Java developers who want to exploit Spring MVC and its features to build web applications. It will help you step up in your career and stay up to date or learn more about Spring's web scalability. What You Will Learn Set up and build standalone and web-based projects using Spring Framework with Maven or Gradle Develop RESTful API applications for XML and JSON data transfers Investigate Spring data access mechanisms with Spring Data Repositories Generate templates for a responsive and powerful front end with AngularJS and Bootstrap Authenticate over REST with a BASIC authentication scheme and OAuth2; handle roles and permissions Communicate through WebSocket and STOMP messages Design complex advanced-level forms and validate the model Create maintainable unit and acceptance tests to secure the apps Deploy the web application to the cloud in a snap In Detail Spring MVC helps you build flexible and loosely coupled web applications. The Spring MVC Framework is designed in such a way that every piece of logic and functionality is highly configurable. This Learning Path aims to make you an expert in designing web applications with Spring MVC 4. In our first module, we'll begin with an introduction to the Spring framework. You'll then learn aspect-oriented programming. Packed with real-world examples, you'll get an insight into how you can use Spring Expression Language in your applications to make them easier to manage and maintain. In the second module, you'll learn everything you need to build modern Spring-based enterprise web applications. From practical development techniques and useful tools from the wider Spring ecosystem, to the new JEE standards, the impact of JavaScript, and even the Internet of Things, you'll feel confident that you can deploy Spring for an impressive range of creative purposes. In the final module, you'll find out how to take advantage of Spring MVC's advanced features - essential if you are to properly master the framework. To do this you'll investigate the inner mechanics of Spring MVC, and how they tie into to the broader principles that inform many modern web architectures. With further guidance on how to test, secure, and optimize your application, as well as designing RESTful services, you'll very quickly be ready to use Spring in your next web project. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Spring Essentials by Shameer Kunjumohamed, Hamidreza Sattari Spring MVC Cookbook by Alex Bretet Mastering Spring MVC 4 by Geoffroy Warin Style and approach This is a hands-on, practical guide based on logical modules of the whole Spring framework family, employing a combination of theory and examples with pro-level practices, techniques, and solutions. Over 60 recipes to help you speed up the development of your Java web applications using the Spring Roo development tool.

The comprehensive Wrox guide for creating Java web applications for the enterprise This guide shows Java software developers and software engineers how to build complex web applications in an enterprise environment. You'll begin with an introduction to the Java Enterprise Edition and the basic web application, then set up a development application server environment, learn about the tools used in the development process, and explore numerous Java technologies and practices. The

book covers industry-standard tools and technologies, specific technologies, and underlying programming concepts. Java is an essential programming language used worldwide for both Android app development and enterprise-level corporate solutions As a step-by-step guide or a general reference, this book provides an all-in-one Java development solution Explains Java Enterprise Edition 7 and the basic web application, how to set up a development application server environment, which tools are needed during the development process, and how to apply various Java technologies Covers new language features in Java 8, such as Lambda Expressions, and the new Java 8 Date & Time API introduced as part of JSR 310, replacing the legacy Date and Calendar APIs Demonstrates the new, fully-duplex WebSocket web connection technology and its support in Java EE 7, allowing the reader to create rich, truly interactive web applications that can push updated data to the client automatically Instructs the reader in the configuration and use of Log4j 2.0, Spring Framework 4 (including Spring Web MVC), Hibernate Validator, RabbitMQ, Hibernate ORM, Spring Data, Hibernate Search, and Spring Security Covers application logging, JSR 340 Servlet API 3.1, JSR 245 JavaServer Pages (JSP) 2.3 (including custom tag libraries), JSR 341 Expression Language 3.0, JSR 356 WebSocket API 1.0, JSR 303/349 Bean Validation 1.1, JSR 317/338 Java Persistence API (JPA) 2.1, full-text searching with JPA, RESTful and SOAP web services, Advanced Message Queuing Protocol (AMQP), and OAuth Professional Java for Web Applications is the complete Wrox guide for software developers who are familiar with Java and who are ready to build high-level enterprise Java web applications. Spring REST is a practical guide for designing and developing RESTful APIs using the Spring Framework. This book walks you through the process of designing and building a REST application while taking a deep dive into design principles and best practices for versioning, security, documentation, error handling, paging, and sorting. This book provides a brief introduction to REST, HTTP, and web infrastructure. You will learn about several Spring projects such as Spring Boot, Spring MVC, Spring Data JPA, and Spring Security and the role they play in simplifying REST application development. You will learn how to build clients that consume REST services. Finally, you will learn how to use the Spring MVC test framework to unit test and integration test your REST API. After reading this book, you will come away with all the skills to build sophisticated REST applications using Spring technologies.

Designed for beginners and intermediate developers, this book helps you come up to speed as quickly as possible with using the Spring 3 framework. It delves deeply into the core of the Spring 3 framework, providing a sound understanding of the components that make up the framework and the way they interact with each other. This book uses an application-centric approach. The development of examples drives the Spring 3 exposure and not the other way around. Finally, a web based project is developed to re-enforce all the learning that took place throughout the book. This will definitely help developers to quickly get started with building real-world Web applications using the Spring 3 framework. Key Topics Spring 3.1 Spring Security 3.1 Spring Web MVC JDBC Templates RESTful resources MySQL 5.5 Hibernate 3 JPA Transaction Management Annotations @AspectJ AOP Classic AOP Dependency Injection

Professional Java Development with the Spring Framework

Servlet & JSP: A Beginner's Tutorial

Improve Your Java Programming Skills by Solving Real-World Coding Challenges

Reactive Spring

Fowler

Spring MVC: A Tutorial (Second Edition)

The Spring Framework is a major open source application development framework that makes Java/J2EE(TM) development easier and more productive. This book shows you not only what Spring can do but why, explaining its functionality and motivation to help you use all parts of the framework to develop successful applications. You will be guided through all the Spring features and see how they form a coherent whole. In turn, this will help you understand the rationale for Spring's approach, when to use Spring, and how to follow best practices. All this is illustrated with a complete sample application. When you finish the book, you will be well equipped to use Spring effectively in everything from simple Web applications to complex enterprise applications. What you will learn from this book \* The core Inversion of Control container and the concept of Dependency Injection \* Spring's Aspect Oriented Programming (AOP) framework and why AOP is important in J2EE development \* How to use Spring's programmatic and declarative transaction management services effectively \* Ways to access data using Spring's JDBC functionality, iBATIS SQL Maps, Hibernate, and other O/R mapping frameworks \* Spring services for accessing and implementing EJBs \* Spring's remoting framework Who this book is for This book is for Java/J2EE architects and developers who want to gain a deeper knowledge of the Spring Framework and use it effectively. Wrox Professional guides are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job.

Enterprise Integration Patterns provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The authors also include examples covering a variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to

help you determine when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book.

Spring MVC tutorial for beginners with a hands-on, step-by-step approach in 25 steps About This Video Dispatcher, Servlet Basic Todo management application with Login/Logout model, controllers, view resolver and filters Forms for data, Binding and validation Annotation based approach @RequestParam, @PathVariable, @ModelAttribute, @SessionAttributes etc Bootstrap to style the page, Spring Security, Internationalization, Exception Handling Basic REST services In Detail Developing your first Spring MVC web application is fun. In this course, you will learn the basics of developing a basic Todo management application using Spring MVC with login and logout functionalities. You will build the website step by step in 25 steps. This course would be a perfect first step as an introduction to Java web application development. You will be using Spring (dependency management), Spring MVC, Spring Security (authentication and authorization), Bootstrap (styling pages), Maven (dependency management), Eclipse (IDE), and Tomcat web server. We will help you set up each one of these.

What separates the traditional enterprise from the likes of Amazon, Netflix, and Etsy? Those companies have refined the art of cloud native development to maintain their competitive edge and stay well ahead of the competition. This practical guide shows Java/JVM developers how to build better software, faster, using Spring Boot, Spring Cloud, and Cloud Foundry. Many organizations have already waded into cloud computing, test-driven development, microservices, and continuous integration and delivery. Authors Josh Long and Kenny Bastani fully immerse you in the tools and methodologies that will help you transform your legacy application into one that is genuinely cloud native. In four sections, this book takes you through: The Basics: learn the motivations behind cloud native thinking; configure and test a Spring Boot application; and move your legacy application to the cloud Web Services: build HTTP and RESTful services with Spring; route requests in your distributed system; and build edge services closer to the data Data Integration: manage your data with Spring Data, and integrate distributed services with Spring's support for event-driven, messaging-centric architectures Production: make your system observable; use service brokers to connect stateful services; and understand the big ideas behind continuous delivery

Get started with Spring Framework 5 and its ecosystem, with a guide to the working practices in modern development. Authors Joseph Ottinger and Andrew Lombardi will teach you how to use the Spring Framework to build Java-based applications, web applications, and microservices. You'll see how Spring has drastically and positively affected the way we program and design applications in Java. Beginning Spring 5 discusses how you can build apps with the Spring mindset and what the benefits of that mindset are.

Along the way you will learn many aspects of the Spring ecosystem with easy-to-understand applications designed to teach you not only the technology, but also the practices that benefit the most from Spring. What You Will Learn Discover the most common use cases encountered in the real world Create reliable, tested, modular software, building skills that will translate well across all languages and environments. Integrate and use data access and persistence frameworks such as Hibernate, JPA, and MongoDB Program functional or reactive Java with the latest Spring 5 features including WebFlux Who This Book Is For Those who are new to Spring or for those who have experience with Spring but want to learn what's new in Spring 5. This book assumes you have some prior coding experience in Java at least.

Spring REST

Pro Spring 5

Master efficient application development with patterns such as proxy, singleton, the template method, and more

Spring 3 for Beginners

Professional Java for Web Applications

Beginning Spring 5

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

Spring Start Here teaches you how to build professional-quality applications using Spring and Spring Boot. Spring is a massive ecosystem and a must-learn tool for Java developers. Spring Start Here introduces you to Java development with Spring by concentrating on the core concepts you'll use in every application you build. You'll learn how to refactor an existing application to Spring, how to use Spring tools to make SQL database requests and REST calls, and how to secure your projects with Spring Security. Spring Start Here teaches you how to build professional-quality applications using Spring and Spring Boot. You'll start with the core components of the framework and then learn how features like Spring Boot simplify the tedious repetitive tasks you face in every project. When you're done, you'll be able to create Spring apps, secure them with authentication and authorization, and move on to the next exciting steps of your Spring journey. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Spring Security in Action shows you how to prevent cross-site scripting and request forgery attacks before they do damage. You'll start with the basics, simulating password upgrades and adding multiple types of authorization. As your skills grow, you'll adapt Spring Security to new architectures and create advanced OAuth2 configurations. By the time you're done, you'll have a customized Spring Security configuration that protects against threats both common and extraordinary. Summary While creating secure applications is critically important, it can also be tedious and time-consuming to stitch together the required collection of tools. For Java developers, the powerful Spring Security framework makes it easy for you to bake security into your software from the very beginning. Filled with code samples and practical examples, Spring Security in Action teaches you how to secure your apps from the most common threats, ranging from injection attacks to lackluster monitoring. In it, you'll learn how to manage system users, configure secure endpoints, and use OAuth2 and OpenID

Connect for authentication and authorization. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Security is non-negotiable. You rely on Spring applications to transmit data, verify credentials, and prevent attacks. Adopting "secure by design" principles will protect your network from data theft and unauthorized intrusions. About the book Spring Security in Action shows you how to prevent cross-site scripting and request forgery attacks before they do damage. You'll start with the basics, simulating password upgrades and adding multiple types of authorization. As your skills grow, you'll adapt Spring Security to new architectures and create advanced OAuth2 configurations. By the time you're done, you'll have a customized Spring Security configuration that protects against threats both common and extraordinary. What's inside Encoding passwords and authenticating users Securing endpoints Automating security testing Setting up a standalone authorization server About the reader For experienced Java and Spring developers. About the author Laurentiu Spilca is a dedicated development lead and trainer at Endava, with over ten years of Java experience. Table of Contents PART 1 - FIRST STEPS 1 Security Today 2 Hello Spring Security PART 2 - IMPLEMENTATION 3 Managing users 4 Dealing with passwords 5 Implementing authentication 6 Hands-on: A small secured web application 7 Configuring authorization: Restricting access 8 Configuring authorization: Applying restrictions 9 Implementing filters 10 Applying CSRF protection and CORS 11 Hands-on: A separation of responsibilities 12 How does OAuth 2 work? 13 OAuth 2: Implementing the authorization server 14 OAuth 2: Implementing the resource server 15 OAuth 2: Using JWT and cryptographic signatures 16 Global method security: Pre- and postauthorizations 17 Global method security: Pre- and postfiltering 18 Hands-on: An OAuth 2 application 19 Spring Security for reactive apps 20 Spring Security testing 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. This is a tutorial on Spring MVC, a module in the Spring Framework for rapidly

developing web applications. The MVC in Spring MVC stands for Model-View-Controller, a design pattern widely used in Graphical User Interface (GUI) development. This pattern is not only common in web development, but is also used in desktop technology like Java Swing. Sometimes called Spring Web MVC, Spring MVC is one of the most popular web frameworks today and a most sought-after skill. This book is for anyone wishing to learn to develop Java-based web applications with Spring MVC. Sample applications come as Spring Tool Suite and Eclipse projects.

Spring MVC: Beginner's Guide

Spring Roo 1.1 Cookbook

Spring MVC: Designing Real-World Web Applications

Beginning Spring Framework 2

Pattern Enterprise Application Architecture

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

**Get up to speed quickly with this comprehensive guide to Spring. Beginning Spring is the complete beginner's guide to Java's most popular framework. Written with an eye toward real-world enterprises, the book covers all aspects of application development within the Spring Framework. Extensive samples within each chapter allow developers to get up to speed quickly by providing concrete references for experimentation, building a skillset that drives successful application development by exploiting the full capabilities of Java's latest advances. Spring provides the exact toolset required to build an enterprise application, and has become the standard within the field. This book covers Spring 4.0, which contains support for Java 8 and Java EE 7. Readers begin with the basics of the framework, then go on to master the most commonly used tools and fundamental concepts inherent in any Spring project. The book emphasizes practicality and real-world application by addressing needs such as meeting customer demand and boosting productivity, and by providing actionable information that helps developers get the most out of the framework. Topics include: Dependency Injection and Inversion of Control Unit testing Spring enabled Web Applications Data Access using Spring JDBC and ORM support along with Transaction Management Building Web Applications and RESTful Web Services with Spring MVC Securing Web Applications using Spring Security Spring Expression Language with its Extensive Features Aspect Oriented Programming Facilities Provided by Spring AOP Caching with 3rd Party Cache Providers' Support The Best of the Breed: Spring 4.0 The information is organized and structured an ideal way for students and corporate training programs, and explanations about inner workings of the framework make it a handy desk reference even for experienced developers. For novices, Beginning Spring is invaluable as a comprehensive guide to the real-world functionality of Spring.**

**Spring in Action, Sixth Edition**

**Spring MVC Cookbook**

**Spring Data Standard Guide**

**Spring Boot in Action**