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# Building a RESTful Web Service with Spring

A hands-on guide to building an enterprise-grade, scalable RESTful web service using the Spring Framework

Ludovic Dewailly

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# Building A Restful Web Service With Spring Packt S

**Deepu K. Sasidharan, Sendil Kumar N**

## **Building A Restful Web Service With Spring Packt S:**

Building RESTful Web Services with Spring 5 Raja CSP Raman,Ludovic Dewailly,2018-01-29 Find out how to implement the REST architecture to build resilient software in Java with the help of the Spring 5 0 framework Key Features Follow best practices and explore techniques such as clustering and caching to achieve a reactive scalable web service Leverage the Spring Framework to quickly implement RESTful endpoints Learn to implement a client library for a RESTful web service using the Spring Framework along with the new front end framework Book Description REST is an architectural style that tackles the challenges of building scalable web services In today s connected world APIs have taken a central role on the web APIs provide the fabric through which systems interact and REST has become synonymous with APIs The depth breadth and ease of use of Spring makes it one of the most attractive frameworks in the Java ecosystem Marrying the two technologies is therefore a very natural choice This book takes you through the design of RESTful web services and leverages the Spring Framework to implement these services Starting from the basics of the philosophy behind REST you ll go through the steps of designing and implementing an enterprise grade RESTful web service Taking a practical approach each chapter provides code samples that you can apply to your own circumstances This second edition brings forth the power of the latest Spring 5 0 release working with MVC built in as well as the front end framework It then goes beyond the use of Spring to explores approaches to tackle resilience security and scalability concerns Improve performance of your applications with the new HTTP 2 0 standards You ll learn techniques to deal with security in Spring and discover how to implement unit and integration test strategies Finally the book ends by walking you through building a Java client for your RESTful web service along with some scaling techniques using the new Spring Reactive libraries What you will learn Deep dive into the principles behind REST Expose CRUD operations through RESTful endpoints with the Spring Framework Devise response formats and error handling strategies offering a consistent and flexible structure to simplify integration for service consumers Follow the best approaches for dealing with a service s evolution while maintaining backward compatibility Understand techniques to secure web services Comply with the best ways to test RESTful web services including tips for load testing Optimise and scale web services using techniques such as caching and clustering Who this book is for This book is intended for those who want to learn to build RESTful web services with the latest Spring 5 0 Framework To make best use of the code samples included in the book you should have a basic knowledge of the Java language Previous experience with the Spring Framework would also help you get up and running quickly *Mastering RESTful Web Services with Java* Marián Varga,Pedro Henrique Pereira de Andrade,Silvio de Moraes,Thiago Bomfim,Igor Avancini Fraga,2025-07-31 Learn RESTful API design with Java covering everything from fundamental design principles to advanced techniques for authentication versioning error handling security testing performance and more Key Features Discover essential architectural principles for building robust and adaptable REST APIs Gain practical insights into tuning performance and securing endpoints through

real world case studies Apply API design concepts to build fully functional services using popular frameworks like Spring Boot Purchase of the print or Kindle book includes a free PDF eBook Book Description REST powers the modern web yet developers grapple with architectural missteps that lead to poorly designed REST endpoints inadequate error handling security vulnerabilities and maintenance headaches Written by five software engineering and Java experts Mastering RESTful Web Services with Java helps you overcome these pitfalls with a deep practical understanding of REST architecture HTTP protocols and modern API design principles This hands on guide introduces foundational concepts based on Roy Fielding s principles and the Richardson Maturity Model and shows you how to apply them in your API development projects You ll build a Product API from scratch progressively enhancing it with documentation versioning and security features and then advance to creating an Order Management API that interacts with the Product API while implementing advanced testing and performance optimization techniques Each chapter delivers step by step explanations and practical examples ensuring you develop production ready skills that translate directly to your daily work By the end of the book you ll be ready to deliver production grade RESTful services and become the API expert your team turns to for critical application development projects What you will learn Design clean modular REST APIs that support real world business workflows Implement secure authentication and authorization flows using modern identity standards Deploy your application to the cloud with strategies that ensure reliability elasticity and cost efficiency Use the OpenAPI specification to define precise contracts and promote consumer driven API development Leverage Java records and virtual threads to write concise scalable and concurrent service logic Apply structured testing techniques to validate behavior resilience and security across your API layers Who this book is for This book is for mid to senior level backend Java developers looking to improve the quality and performance of their REST APIs Whether you re optimizing existing APIs or launching a greenfield project the ideas shared here will enhance your development practice Additionally tech leads and architects looking to sharpen their API design skills and master advanced Java API development techniques will find this book useful [Hands-On RESTful Web Services with TypeScript 3](#) Biharck Muniz Araújo,2019-03-27 A step by step guide that will help you design develop scale and deploy RESTful APIs with TypeScript 3 and Node js Key FeaturesGain in depth knowledge of OpenAPI and Swagger to build scalable web servicesExplore a variety of test frameworks and test runners such as Stryker Mocha and ChaiCreate a pipeline by Dockerizing your environment using Travis CI Google Cloud Platform and GitHubBook Description In the world of web development leveraging data is the key to developing comprehensive applications and RESTful APIs help you to achieve this systematically This book will guide you in designing and developing web services with the power of TypeScript 3 and Node js You ll design REST APIs using best practices for request handling validation authentication and authorization You ll also understand how to enhance the capabilities of your APIs with ODMs databases models and views as well as asynchronous callbacks This book will guide you in securing your environment by testing your services and initiating test automation with

different testing approaches Furthermore you'll get to grips with developing secure testable and more efficient code and be able to scale and deploy TypeScript 3 and Node.js powered RESTful APIs on cloud platforms such as the Google Cloud Platform Finally the book will help you explore microservices and give you an overview of what GraphQL can allow you to do By the end of this book you will be able to use RESTful web services to create your APIs for mobile and web apps and other platforms What you will learn Explore various methods to plan your services in a scalable way Understand how to handle different request types and the response status code Get to grips with securing web services Delve into error handling and logging your web services for improved debugging Uncover the microservices architecture and GraphQL Create automated CI/CD pipelines for release and deployment strategies Who this book is for If you're a developer who has a basic understanding of REST concepts and want to learn how to design and develop RESTful APIs this book is for you Prior knowledge of TypeScript will help you make the most out of this book

*Building RESTful Web services with Go* Naren Yellavula, 2017-12-28 Explore the necessary concepts of REST API development by building few real world services from scratch About This Book Follow best practices and explore techniques such as clustering and caching to achieve a reactive scalable web service Leverage the Gin Framework to quickly implement RESTful endpoints Learn to implement a client library for a RESTful web service using Go Who This Book Is For This book is intended for those who want to learn to build RESTful web services with a framework like Gin To make best use of the code samples included in the book you should have a basic knowledge of Go programming What You Will Learn Create HTTP handler and introspect the Gorilla Mux router OAuth 2 implementation with Go Build RESTful API with Gin Framework Create REST API with MongoDB and Go Build a working client library and unit test for REST API Debug test and profile RESTful APIs with each of the frameworks Optimize and scale REST API using microservices In Detail REST is an architectural style that tackles the challenges of building scalable web services and in today's connected world APIs have taken a central role on the web APIs provide the fabric through which systems interact and REST has become synonymous with APIs The depth breadth and ease of use of Go makes it a breeze for developers to work with it to build robust Web APIs This book takes you through the design of RESTful web services and leverages a framework like Gin to implement these services The book starts with a brief introduction to REST API development and how it transformed the modern web You will learn how to handle routing and authentication of web services along with working with middleware for internal service The book explains how to use Go frameworks to build RESTful web services and work with MongoDB to create REST API You will learn how to integrate Postgres SQL and JSON with a Go web service and build a client library in Go for consuming REST API You will learn how to scale APIs using the microservice architecture and deploy the REST APIs using Nginx as a proxy server Finally you will learn how to metricize a REST API using an API Gateway By the end of the book you will be proficient in building RESTful APIs in Go Style and Approach This book is a step by step hands on guide to designing and building RESTful web services

**Building RESTful**

**Web Services with Spring 5 - Second Edition** Raja Raman, Ludovic Dewailly, 2018 Find out how to implement the REST architecture to build resilient software in Java with the help of the Spring 5.0 framework About This Book Follow best practices and explore techniques such as clustering and caching to achieve a reactive scalable web service Leverage the Spring Framework to quickly implement RESTful endpoints Learn to implement a client library for a RESTful web service using the Spring Framework along with the new front end framework Who This Book Is For This book is intended for those who want to learn to build RESTful web services with the latest Spring 5.0 Framework To make best use of the code samples included in the book you should have a basic knowledge of the Java language Previous experience with the Spring Framework would also help you get up and running quickly What You Will Learn Deep dive into the principles behind REST Expose CRUD operations through RESTful endpoints with the Spring Framework Devise response formats and error handling strategies offering a consistent and flexible structure to simplify integration for service consumers Follow the best approaches for dealing with a service s evolution while maintaining backward compatibility Understand techniques to secure web services Comply with the best ways to test RESTful web services including tips for load testing Optimise and scale web services using techniques such as caching and clustering In Detail REST is an architectural style that tackles the challenges of building scalable web services In today s connected world APIs have taken a central role on the web APIs provide the fabric through which systems interact and REST has become synonymous with APIs The depth breadth and ease of use of Spring makes it one of the most attractive frameworks in the Java ecosystem Marrying the two technologies is therefore a very natural choice This book takes you through the design of RESTful web services and leverages the Spring Framework to implement these services Starting from the basics of the philosophy behind REST you ll go through the steps of designing and implementing an enterprise grade RESTful web service Taking a practical approach each chapter provides code samples that you can apply to your own circumstances This second edition brings forth the power of the latest Spring 5.0 release working with MVC built in as well as the front end framework It then goes beyond the use of Spring to explores approaches to tackle resilience securit

*Building a RESTful Web Service with Spring* Ludovic Dewailly, 2015-10-14 A hands on guide to building an enterprise grade scalable RESTful web service using the Spring Framework About This Book Follow best practices and explore techniques such as clustering and caching to achieve a scalable web service Leverage the Spring Framework to quickly implement RESTful endpoints Learn to implement a client library for a RESTful web service using the Spring Framework Who This Book Is For This book is intended for those who want to learn to build RESTful web services with the Spring Framework To make best use of the code samples included in the book you should have a basic knowledge of the Java language Previous experience with the Spring Framework would also help you get up and running quickly What You Will Learn Deep dive into the principles behind REST Expose CRUD operations through RESTful endpoints with the Spring Framework Devise response formats and error handling strategies offering a consistent and flexible structure to simplify

integration for service consumers Follow the best approaches for dealing with a service s evolution while maintaining backward compatibility Understand techniques to secure web services Comply with the best ways to test RESTful web services including tips for load testing Optimise and scale web services using techniques such as caching and clustering In Detail REST is an architectural style that tackles the challenges of building scalable web services In today s connected world APIs have taken a central role on the web APIs provide the fabric through which systems interact and REST has become synonymous with APIs The depth breadth and ease of use of Spring makes it one of the most attractive frameworks in the Java ecosystem Marrying the two technologies is therefore a very natural choice This book takes you through the design of RESTful web services and leverages the Spring Framework to implement these services Starting from the basics of the philosophy behind REST you ll go through the steps of designing and implementing an enterprise grade RESTful web service Taking a practical approach each chapter provides code samples that you can apply to your own circumstances This book goes beyond the use of Spring and explores approaches to tackle resilience security and scalability concerns You ll learn techniques to deal with security in Spring and discover how to implement unit and integration test strategies Finally the book ends by walking you through building a Java client for your RESTful web service along with some scaling techniques for it Style and approach This book is a step by step hands on guide to designing and building RESTful web services The book follows the natural cycle of developing these services and includes multiple code samples to help you

*Building RESTful Web Services with Spring 5* Raja Csp Raman,Ludovic Dewailly,2018-01-24 Find out how to implement the REST architecture to build resilient software in Java with the help of the Spring 5 0 framework Key Features Follow best practices and explore techniques such as clustering and caching to achieve a reactive scalable web service Leverage the Spring Framework to quickly implement RESTful endpoints Learn to implement a client library for a RESTful web service using the Spring Framework along with the new front end framework Book Description REST is an architectural style that tackles the challenges of building scalable web services In today s connected world APIs have taken a central role on the web APIs provide the fabric through which systems interact and REST has become synonymous with APIs The depth breadth and ease of use of Spring makes it one of the most attractive frameworks in the Java ecosystem Marrying the two technologies is therefore a very natural choice This book takes you through the design of RESTful web services and leverages the Spring Framework to implement these services Starting from the basics of the philosophy behind REST you ll go through the steps of designing and implementing an enterprise grade RESTful web service Taking a practical approach each chapter provides code samples that you can apply to your own circumstances This second edition brings forth the power of the latest Spring 5 0 release working with MVC built in as well as the front end framework It then goes beyond the use of Spring to explores approaches to tackle resilience security and scalability concerns Improve performance of your applications with the new HTTP 2 0 standards You ll learn techniques to deal with security in Spring and discover how to implement unit and

integration test strategies Finally the book ends by walking you through building a Java client for your RESTful web service along with some scaling techniques using the new Spring Reactive libraries What you will learn Deep dive into the principles behind REST Expose CRUD operations through RESTful endpoints with the Spring Framework Devise response formats and error handling strategies offering a consistent and flexible structure to simplify integration for service consumers Follow the best approaches for dealing with a service s evolution while maintaining backward compatibility Understand techniques to secure web services Comply with the best ways to test RESTful web services including tips for load testing Optimise and scale web services using techniques such as caching and clustering Who this book is for This book is intended for those who want to learn to build RESTful web services with the latest Spring 5 0 Framework To make best use of the code samples included in the book you should have a basic knowledge of the Java language Previous experience with the Spring Framework would also help you get up and running quickly

Full Stack Development with JHipster Deepu K. Sasidharan, Sendil Kumar N, 2018 Discover the world of Full Stack Development with real world examples Key Features Leverage the full power of the JHipster platform to build complex web applications Create microservices from scratch and convert JHipster monolith apps into microservices Build and deploy applications locally in Docker and on various cloud platforms Book Description JHipster is a development platform to generate develop and deploy Spring Boot and Angular React applications and Spring microservices It provides you with a variety of tools that will help you quickly build modern web applications This book will be your guide to building full stack applications with Spring and Angular using the JHipster tool set You will begin by understanding what JHipster is and the various tools and technologies associated with it You will learn the essentials of a full stack developer before getting hands on and building a monolithic web application with JHipster From here you will learn the JHipster Domain Language with entity modeling and entity creation using JDL and JDL studio Moving on you will be introduced to client side technologies such as Angular and Bootstrap and will delve into technologies such as Spring Security Spring MVC and Spring Data You will learn to build and package apps for production with various deployment options such as Heroku and more During the course of the book you will be introduced to microservice server side technologies and how to break your monolithic application with a database of your choice Next the book takes you through cloud deployment with microservices on Docker and Kubernetes Going forward you will learn to build your client side with React and master JHipster best practices By the end of the book you will be able to leverage the power of the best tools available to build modern web applications What you will learn Build business logic by creating and developing entity models us the JHipster Domain Language Customize web applications with Angular Bootstrap and Spring Tests and Continuous Integration with Jenkins Utilize the JHipster microservice stack which includes Netflix Eureka Spring Cloud config HashiCorp Consul and so on Understand advanced microservice concepts such as API rout load balancing rate limit circuit break centralized configuration server JWT authentication and more Run microservices locally using Docker and

Kubernetes in production Who this book is for This book will appeal to developers who would like to build modern web applications quickly A basic knowledge of the Spring ecosystem would be an added advantage *Spring MVC: Designing Real-World Web Applications* Shameer Kunjumohamed, Hamidreza Sattari, Alex Bretet, Geoffroy Warin, 2016-11-11 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

**Master Java Web Services and REST API with Spring Boot** Ranga Karanam,2018 Developing SOAP and RESTful web services is fun The combination of Spring Boot Spring Web MVC Spring web services and JPA makes it even more fun Architectures are moving towards Microservices RESTful web services are the first step to developing great Microservices Spring Boot in combination with Spring Web MVC also called Spring REST makes it easy to develop RESTful web services There are two parts to this course RESTful web services and SOAP web services In the first part of the course you will learn the basics of RESTful web services developing resources for a social media application You will learn to implement these resources with multiple features such as versioning exception handling documentation Swagger basic authentication Spring Security filtering and HATEOAS You will learn the best practices in designing RESTful web services You will be using Spring dependency management Spring MVC or Spring REST Spring Boot Spring Security authentication and authorization Spring Boot Actuator monitoring Swagger Documentation Maven dependencies management Eclipse IDE Postman REST services client and the Tomcat embedded web server In the second part of the course you will learn the basics of implementing SOAP web services by developing a few web services for a course management application You will learn to use a contract first approach defining XSD XML Schema Definition for your requests and responses You will learn about WSDL SOAP header SOAP body and SOAP fault XSD XML schema definition and JAXB Java API for XML binding You will implement three SOAP web services with exception handling and basic security with WS security In this part of the course you will be using Spring dependency management Spring web services Spring Boot Spring Security authentication and authorization Swagger documentation Maven dependencies management Eclipse IDE Widdler SOAP services Chrome Plugin and the Tomcat embedded web server We will help you set up each one of these Resource description page *Woman's Home Companion*

,1910 **Building RESTful Web Services with Java EE 8** Mario-Leander Reimer,2018-07-31 Learn the fundamentals of Java EE 8 APIs to build effective web services Key Features Design modern and stylish web services with Java EE APIs Secure your web services with JSON Web Tokens Explore the advanced concepts of RESTful web services and the JAX RS API Book Description Java Enterprise Edition is one of the leading application programming platforms for enterprise Java development With Java EE 8 finally released and the first application servers now available it is time to take a closer look at how to develop modern and lightweight web services with the latest API additions and improvements Building RESTful Web Services with Java EE 8 is a comprehensive guide that will show you how to develop state of the art RESTful web services with the latest Java EE 8 APIs You will begin with an overview of Java EE 8 and the latest API additions and improvements You will then delve into the details of implementing synchronous RESTful web services and clients with JAX RS Next up you will learn about the specifics of data binding and content marshalling using the JSON B 1 0 and JSON P 1 1 APIs This book also guides you in leveraging the power of asynchronous APIs on the server and client side and you will learn to use server sent events SSEs for push communication The final section covers advanced web service topics such as validation JWT

security and diagnosability By the end of this book you will have implemented several working web services and have a thorough understanding of the Java EE 8 APIs required for lightweight web service development What you will learn Dive into the latest Java EE 8 APIs relevant for developing web services Use the new JSON B APIs for easy data binding Understand how JSON P API can be used for flexible processing Implement synchronous and asynchronous JAX RS clients Use server sent events to implement server side code Secure Java EE 8 web services with JSON Web Tokens Who this book is for If you re a Java developer who wants to learn how to implement web services using the latest Java EE 8 APIs this book is for you Though no prior knowledge of Java EE 8 is required experience with a previous Java EE version will be beneficial

*Building Microservices with Spring* Dinesh Rajput,Rajesh R V,2018-12-21 Learn and use the design patterns and best practices in Spring to solve common design problems and build user friendly microservices Key FeaturesStudy the benefits of using the right design pattern in your toolkitManage your code easily with Spring s dependency injection patternExplore the features of Docker and Mesos to build successful microservicesBook Description Getting Started with Spring Microservices begins with an overview of the Spring Framework 5 0 its design patterns and its guidelines that enable you to implement responsive microservices at scale You will learn how to use GoF patterns in application design You will understand the dependency injection pattern which is the main principle behind the decoupling process of the Spring Framework and makes it easier to manage your code Then you will learn how 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 After understanding the basics you will move on to more advanced topics such as reactive streams and concurrency Written to the latest specifications of Spring that focuses on Reactive Programming the Learning Path teaches you how to build modern internet scale Java applications in no time Next you will understand how Spring Boot is used to deploying serverless autonomous services by removing the need to have a heavyweight application server You ll also explore ways to deploy your microservices to Docker and managing them with Mesos By the end of this Learning Path you will have the clarity and confidence for implementing microservices using Spring Framework This Learning Path includes content from the following Packt products Spring 5 Microservices by Rajesh R V Spring 5 Design Patterns by Dinesh RajputWhat you will learnDevelop applications using dependency injection patternsBuild web applications using traditional Spring MVC patternsUtilize the reactive programming pattern to build reactive web appsLearn concurrency and handle multiple connections inside a web serverUse Spring Boot and Spring Cloud to develop microservicesLeverage reactive programming to build cloud native applicationsWho this book is for Getting Started with Spring Microservices is ideal for Spring developers who want to use design patterns to solve common design problems and build cloud ready Internet scale applications and simple RESTful services **Spring: Microservices with Spring Boot** Ranga Rao Karanam,2018-03-14 Unlock the power of Spring Boot to build and deploy production ready microservices Key Features Get to know the advanced features of Spring Boot in order to develop and

monitor applications Use Spring cloud to deploy and manage microservices on the cloud Look at embedded servers and deploy a test application to a PaaS Cloud platform Embedded with assessments that will help you revise the concepts you have learned in this book Book Description Microservices helps in decomposing applications into small services and move away from a single monolithic artifact It helps in building systems that are scalable flexible and high resilient Spring Boot helps in building REST oriented production grade microservices This book is a quick learning guide on how to build monitor and deploy microservices with Spring Boot You ll be first familiarized with Spring Boot before delving into building microservices You will learn how to document your microservice with the help of Spring REST docs and Swagger documentation You will then learn how to secure your microservice with Spring Security and OAuth2 You will deploy your app using a self contained HTTP server and also learn to monitor a microservice with the help of Spring Boot actuator This book is ideal for Java developers who knows the basics of Spring programming and want to build microservices with Spring Boot This book is embedded with useful assessments that will help you revise the concepts you have learned in this book What you will learn Use Spring Initializr to create a basic spring project Build a basic microservice with Spring Boot Implement caching and exception handling Secure your microservice with Spring security and OAuth2 Deploy microservices using self contained HTTP server Monitor your microservices with Spring Boot actuator Learn to develop more effectively with developer tools Who this book is for This book is aimed at Java developers who knows the basics of Spring programming and want to build microservices with Spring Boot

**Spring Boot 3.0 Cookbook** Felip Miguel Puig,2024-07-12 Tackle the complexities of modern web applications by understanding the uses of Spring Boot s cloud design patterns to build scalable and resilient applications Key Features Discover practical recipes for real cloud scale application challenges Explore what Spring Boot offers to make your application production ready Monitor applications identify bottlenecks and optimize performance Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn today s dynamic landscape crafting robust and scalable Java web applications presents formidable challenges Spring Boot emerges as the leading framework for web and microservices development featuring a dynamic ecosystem and seamless integrations to address a spectrum of scenarios from scaling apps on the cloud to deploying them to production In this book you ll explore its streamlined convention over configuration approach simplifying application development You ll start by covering recipes showcasing Spring Boot s features As you progress you ll understand how it helps streamline application development while staying ahead of technology trends The book helps you grasp concepts effectively explores basic REST APIs shows you how to escalate to advanced scenarios and tackle common cloud application challenges like security scalability performance optimization and automated deployments Dedicated sections are designed to help you stay ahead of the curve with recipes that delve into the latest trends such as containers observability native images DevOps test automation and microservices ensuring your applications align with evolving industry standards By the end of this book you ll be able to build and automate

the deployment of a scalable and high performing distributed solution using Spring Boot 3 What you will learn Develop production grade distributed applications Use various data repositories including relational and NoSQL databases Implement modern testing techniques across different levels of application development Leveraging Testcontainers to validate all integration scenarios Integrate with services like Redis PostgreSQL MongoDB and RabbitMQ Authenticate through OpenID providers Facilitate smooth migration from earlier Spring Boot versions Who this book is for This book is for Java developers who want to gain expertise in modern web development architects designing complex systems experienced Spring Boot developers and technology enthusiasts looking to stay up to date with the latest trends and software engineers in need of practical solutions for everyday challenges Hands on experience with Java or Kotlin is required Prior development experience on the cloud will be useful but not necessary

*Spring REST* Balaji Varanasi, Maxim Bartkov, 2021-11-28 Design and develop Java based RESTful APIs using the latest versions of the Spring MVC and Spring Boot frameworks This book walks you through the process of designing and building a REST application while delving into design principles and best practices for versioning security documentation error handling paging and sorting Spring REST 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 What You Will Learn Build Java based microservices native cloud or any applications using Spring REST Employ Spring MVC and RESTful Spring Build a QuickPoll application example Document REST services as well as versioning paging and sorting Test handle errors and secure your application Who This Book Is For Intermediate Java programmers with at least some prior experience with Spring and web cloud application development

**Mastering Spring Boot 2.0** Dinesh Rajput, 2018-05-31 Learn to develop test and deploy your Spring Boot distributed application and explore various best practices Key Features Build and deploy your microservices architecture in the cloud Build event driven resilient systems using Hystrix and Turbine Explore API management tools such as KONG and API documentation tools such as Swagger Book Description Spring is one of the best frameworks on the market for developing web enterprise and cloud ready software Spring Boot simplifies the building of complex software dramatically by reducing the amount of boilerplate code and by providing production ready features and a simple deployment model This book will address the challenges related to power that come with Spring Boot s great configurability and flexibility You will understand how Spring Boot configuration works under the hood how to overwrite default configurations and how to use advanced techniques to prepare Spring Boot applications to work in production This book will also introduce readers to a relatively new topic in the Spring ecosystem cloud native patterns reactive programming and applications Get up to speed with microservices with Spring Boot

and Spring Cloud Each chapter aims to solve a specific problem or teach you a useful skillset By the end of this book you will be proficient in building and deploying your Spring Boot application What you will learn Build logically structured and highly maintainable Spring Boot applications Configure RESTful microservices using Spring Boot Make the application production and operation friendly with Spring Actuator Build modern high performance distributed applications using cloud patterns Manage and deploy your Spring Boot application to the cloud AWS Monitor distributed applications using log aggregation and ELK Who this book is for The book is targeted at experienced Spring and Java developers who have a basic knowledge of working with Spring Boot The reader should be familiar with Spring Boot basics and aware of its benefits over traditional Spring Framework based applications

**Learning Spring Boot 3.0** Greg L. Turnquist, 2022-12-30 Build Java web apps without wasting any time with this third edition of the best selling Spring Boot guide for beginners updated and enhanced with defining features of Spring Boot 3 Purchase of the print or Kindle book includes a free eBook PDF Key Features Learn Spring Boot in a cohesive manner with this practical guide by a core Spring contributor Discover popular Java developer tools such as GraalVM native images serving up JSON and more Build secure scalable and manageable web applications from zero to production Book Description Spring Boot 3 brings more than just the powerful ability to build secure web apps on top of a rock solid database It delivers new options for testing deployment Docker support and native images for GraalVM along with ways to squeeze out more efficient usage of existing resources This third edition of the bestseller starts off by helping you build a simple app and then shows you how to secure test bundle and deploy it to production Next you ll familiarize yourself with the ability to go native and release using GraalVM As you advance you ll explore reactive programming and get a taste of scalable web controllers and data operations The book goes into detail about GraalVM native images and deployment teaching you how to secure your application using both routes and method based rules and enabling you to apply the lessons you ve learned to any problem If you want to gain a thorough understanding of building robust applications using the core functionality of Spring Boot then this is the book for you By the end of this Spring Boot book you ll be able to build an entire suite of web applications using Spring Boot and deploy them to any platform you need What you will learn Create powerful production grade web applications with minimal fuss Support multiple environments with one artifact and add production grade support with features Find out how to tweak your Java apps through different properties Enhance the security model of your apps Make use of enhancing features such as native deployment and reactive programming in Spring Boot Build anything from lightweight unit tests to fully running embedded web container integration tests Get a glimpse of reactive programming and decide if it s the right approach for you Who this book is for This book is for both novices and experienced Spring developers looking to learn how to build applications without wasting time on infrastructure and other tedious details Working knowledge of the Java programming language is assumed

*Spring 5.0 Projects* Nilang Patel, 2019-02-28 Discover the latest features of Spring framework by building robust fast and reactive web applications Key

FeaturesTake advantage of all the features of Spring 5.0 with third party tools to build a robust back endSecure Spring based web application using Spring Security framework with LDAP and OAuth protocolDevelop robust and scalable microservice based applications on Spring Cloud using Spring BootBook Description Spring makes it easy to create RESTful applications merge with social services communicate with modern databases secure your system and make your code modular and easy to test With the arrival of Spring Boot developers can really focus on the code and deliver great value with minimal contour This book will show you how to build various projects in Spring 5.0 using its features and third party tools We ll start by creating a web application using Spring MVC Spring Data the World Bank API for some statistics on different countries and MySQL database Moving ahead you ll build a RESTful web services application using Spring WebFlux framework You ll be then taken through creating a Spring Boot based simple blog management system which uses Elasticsearch as the data store Then you ll use Spring Security with the LDAP libraries for authenticating users and create a central authentication and authorization server using OAuth 2 protocol Further you ll understand how to create Spring Boot based monolithic application using JHipster Toward the end we ll create an online book store with microservice architecture using Spring Cloud and Netflix OSS components and a task management system using Spring and Kotlin By the end of the book you ll be able to create coherent and flexible real time web applications using Spring Framework What you will learnBuild Spring based application using Bootstrap template and JQueryUnderstand the Spring WebFlux framework and how it uses Reactor libraryInteract with Elasticsearch for indexing querying and aggregating dataCreate a simple monolithic application using JHipsterUse Spring Security and Spring Security LDAP and OAuth libraries for AuthenticationDevelop a microservice based application with Spring Cloud and NetflixWork on Spring Framework with KotlinWho this book is for This book is for competent Spring developers who wish to understand how to develop complex yet flexible applications with Spring You must have a good knowledge of Java programming and be familiar with the basics of Spring [Full Stack Development with Spring Boot 3 and React](#) Juha Hinkula,2023-10-31 Get up and running with the Spring Boot and React stack build an app from start to finish test the frontend and backend and deploy Now with TypeScript code Purchase of the print or Kindle book includes a free PDF eBook Key Features Use Spring Boot 3 to create powerful complex and secure backends for your applications Leverage React to build slick high performance frontends Get introduced to TypeScript Vite and React Query for React development Book DescriptionIf you re an existing Java developer who wants to go full stack or pick up another frontend framework this book is your concise introduction to React In this three part build along you ll create a robust Spring Boot backend a React frontend and then deploy them together This new edition is updated to Spring Boot 3 and includes expanded content on security and testing For the first time ever it also covers React development with the in demand TypeScript You ll explore the elements that go into creating a REST API and testing securing and deploying your applications You ll learn about custom Hooks third party components and MUI By the end of this book you ll be able to build a full stack

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