



Community Experience Distilled

Learning Spring Boot

Learn how to use Spring Boot to build apps faster than ever before

Foreword by Dave Syer, Senior Engineering Consultant and Co-lead for Spring Boot

Greg L. Turnquist

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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

Learning Spring Boot 2.0 Greg L. Turnquist, 2017-11-03 Use Spring Boot to build lightning fast apps About This Book Get up to date with the defining characteristics of Spring Boot 2 0 in Spring Framework 5 Learn to perform Reactive programming with SpringBoot Learn about developer tools AMQP messaging WebSockets security MongoDB data access REST and more Who This Book Is For This book is designed for both novices and experienced Spring developers It will teach you how to override Spring Boot s opinions and frees you from the need to define complicated configurations What You Will Learn Create powerful production grade applications and services with minimal fuss Support multiple environments with one artifact and add production grade support with features Find out how to tweak your apps through different properties Use custom metrics to track the number of messages published and consumed

Enhance the security model of your apps Make use of reactive programming in Spring Boot Build anything from lightweight unit tests to fully running embedded web container integration tests In Detail Spring Boot provides a variety of features that address today s business needs along with today s scalable requirements In this book you will learn how to leverage powerful databases and Spring Boot s state of the art WebFlux framework This practical guide will help you get up and running with all the latest features of Spring Boot especially the new Reactor based toolkit The book starts off by helping you build a simple app then shows you how to bundle and deploy it to the cloud From here we take you through reactive programming showing you how to interact with controllers and templates and handle data access Once you re done you can start writing unit tests slice tests embedded container tests and even autoconfiguration tests We go into detail about developer tools AMQP messaging WebSockets security and deployment You will learn how to secure your application using both routes and method based rules By the end of the book you ll have built a social media platform from which to apply the lessons you have learned to any problem If you want a good understanding of building scalable applications using the core functionality of Spring Boot this is the book for you Style and approach This book takes a tutorial based approach to teach you all you need to know to get up and running with the latest version of Spring Boot Filled with examples you will gain hands on experience of every area that Spring tackles

Learning Spring Boot Greg L. Turnquist, 2014-11-27 This book is for both novice developers in general and experienced Spring developers It will teach you how to override Spring Boot s opinions and frees you from the need to define complicated configurations

Hacking with Spring Boot 2.3 Greg L. Turnquist, 2020-05-14 Spring Boot 2.3 is the hottest ticket in town when it comes to Java development Learn the latest features that can scale your apps including Web and Data access Developer tools and test support Operational features Docker container baking Bottleneck discovery with BlockHound Messaging Security More Written cover to cover using Project Reactor your apps will scale like never before Grab your copy today and learn to build top notch scalable solutions with modern tactics Greg L. Turnquist works on the Spring team as a principal developer at VMware He is a committer to Spring HATEOAS Spring Data Spring Boot R2DBC and Spring Session for MongoDB He also wrote Packt s best selling title *Learning Spring Boot 2.0* 2nd Edition He co founded the Nashville Java User Group in 2010 and hasn t met a Java app yet that he doesn t like Follow him on Twitter gregturn and subscribe for all his Spring Boot videos at YouTube com GregTurnquist

Learning Spring Boot 3.0 Greg Lee Turnquist, 2022 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

Developing Java Applications with Spring and Spring Boot Claudio Eduardo de Oliveira,Greg L. Turnquist,Alex Antonov,2018-10-04 An end to end software development guide for the Java eco system using the most advanced frameworks Spring and Spring Boot Learn the complete workflow by building projects and solving problems About This BookLearn reactive programming by implementing a reactive application with Spring WebFluxCreate a robust and scalable messaging application with Spring messaging supportGet up to date with the defining characteristics of Spring Boot 2 0 in Spring Framework 5Learn about developer tools AMQP messaging WebSockets security MongoDB data access REST and moreThis collection of effective recipes serves as guidelines for Spring Boot application developmentWho This Book Is For Java developers wanting to build production grade applications using the newest popular Spring tools for a rich end to end application development experience What You Will LearnGet to know the Spring Boot and understand how it makes creating robust applications extremely simpleUnderstand how Spring Data helps us add persistence in MongoDB and SQL databasesImplement a websocket to add interactive behaviors in your applicationsCreate powerful production grade applications and services with minimal fussUse custom metrics to track the number of messages published and consumedBuild anything from lightweight unit tests to fully running embedded web container integration testsLearn effective testing techniques by integrating Cucumber and SpockUse Hashicorp Consul and Netflix Eureka for dynamic Service DiscoveryIn Detail Spring Framework has become the most popular framework for Java development It not only

simplifies software development but also improves developer productivity This book covers effective ways to develop robust applications in Java using Spring The course is up made of three modules each one having a take away relating to building end to end java applications The first module takes the approach of learning Spring frameworks by building applications You will learn to build APIs and integrate them with popular fraemworks suh as AngularJS Spring WebFlux and Spring Data You will also learn to build microservices using Spring s support for Kotlin You will learn about the Reactive paradigm in the Spring architecture using Project Reactor In the second module after getting hands on with Spring you will learn about the most popular tool in the Spring ecosystem Spring Boot You will learn to build applications with Spring Boot bundle them and deploy them on the cloud After learning to build applications with Spring Boot you will be able to use various tests that are an important part of application development We also cover the important developer tools such as AMQP messaging websockets security and more This will give you a good functional understanding of scalable development in the Spring ecosystem with Spring Boot In the third and final module you will tackle the most important challenges in Java application development with Spring Boot using practical recipes Including recipes for testing deployment monitoring and securing your applications This module will also address the functional and technical requirements for building enterprise applications By the end of the course you will be comfortable with using Spring and Spring Boot to develop Java applications and will have mastered the intricacies of production grade applications Style and approach A simple step by step guide with practical examples to help you develop and deploy Spring and Spring Boot applications in the real world [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

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 Description

If 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 application using the latest tools and modern best practices

What you will learn

- Make fast and RESTful web services powered by Spring Data REST
- Create and manage databases using ORM JPA Hibernate and more
- Explore the use of unit tests and JWTs with Spring Security
- Employ React Hooks props states and more to create your frontend
- Harness the Material UI component library to customize your frontend
- Use the fetch API Axios and React Query for networking
- Add CRUD functionality to your apps
- Deploy your apps using AWS and Docker

Who this book is for

This book is for Java developers who have basic familiarity with Spring Boot but don t know where to start when it comes to building full stack applications

Basic knowledge of JavaScript and HTML will help you to follow along

You ll also find this book useful if you re a frontend developer with knowledge of JavaScript basics and looking to learn full stack development or a full stack developer experienced in other technology stacks looking to learn a new one

Hands-On Full Stack Development with Spring Boot 2 and React Juha Hinkula, 2019-05-23

A comprehensive guide to building full stack applications covering frontend and server side programming data management and web security

Key Features

- Unleash the power of React Hooks to build interactive and complex user interfaces
- Build scalable full stack

applications designed to meet demands of modern users Understand how the Axios library simplifies CRUD operations Book Description React Hooks have changed the way React components are coded They enable you to write components in a more intuitive way without using classes which makes your code easier to read and maintain Building on from the previous edition this book is updated with React Hooks and the latest changes introduced in create react app and Spring Boot 2.1 This book starts with a brief introduction to Spring Boot You'll understand how to use dependency injection and work with the data access layer of Spring using Hibernate as the ORM tool You'll then learn how to build your own RESTful API endpoints for web applications As you advance the book introduces you to other Spring components such as Spring Security to help you secure the backend Moving on you'll explore React and its app development environment and components for building your frontend Finally you'll create a Docker container for your application by implementing the best practices that underpin professional full stack web development By the end of this book you'll be equipped with all the knowledge you need to build modern full stack applications with Spring Boot for the backend and React for the frontend What you will learn Create a RESTful web service with Spring Boot Grasp the fundamentals of dependency injection and how to use it for backend development Discover techniques for securing the backend using Spring Security Understand how to use React for frontend programming Benefit from the Heroku cloud server by deploying your application to it Delve into the techniques for creating unit tests using JUnit Explore the Material UI component library to make more user friendly user interfaces Who this book is for If you are a Java developer familiar with Spring but are new to building full stack applications this is the book for you

Full Stack Development with Spring Boot and React Juha Hinkula, 2022-04-28 PUBLISHER'S NOTE A new edition of this book is now available revised and updated for Spring Boot 3 and TypeScript Key Features Utilize Spring Boot to make powerful complex and secure backends for your applications Leverage React's full arsenal of tools for building slick high performance frontends Build modern scalable full stack applications that comfortably meet the demands of your users Book Description Getting started with full stack development can be daunting Even developers who are familiar with the best tools such as Spring Boot and React can struggle to nail the basics let alone master the more advanced elements If you're one of these developers this comprehensive guide covers everything you need This updated edition of the Full Stack Development with Spring Boot 2 and React book will take you from novice to proficient in this expansive domain Taking a practical approach this book will first walk you through the latest Spring Boot features for creating a robust backend covering everything from setting up the environment and dependency injection to security and testing Once this has been covered you'll advance to React frontend programming If you've ever wondered about custom Hooks third party components and MUI this book will demystify all that and much more You'll explore everything that goes into developing testing securing and deploying your applications using all the latest tools from Spring Boot React and other cutting edge technologies By the end of this book you'll not only have learned the theory of building modern full stack applications but also have developed

valuable skills that add value in any setting What you will learn Make fast and RESTful web services powered by Spring Data REST Create and manage databases using ORM JPA Hibernate and more Explore the use of unit tests and JWTs with Spring Security Employ React Hooks props states and more to create your frontend Discover a wide array of advanced React and third party components Build high performance applications complete with CRUD functionality Harness MUI to customize your frontend Test secure and deploy your applications with high efficiency Who this book is for This book is for Java developers who are familiar with Spring Boot but don't know where to start when it comes to building full stack applications You'll also find this book useful if you're a frontend developer with knowledge of JavaScript basics looking to learn full stack development or a full stack developer experienced in other technology stacks looking to learn a new one

Spring Security Badr Nasslahsen, 2024-06-28 Leverage the power of Spring Security 6 to protect your modern Java applications from hackers Key Features Architect solutions that leverage Spring Security while remaining loosely coupled Implement authentication and authorization with SAML2 OAuth 2 hashing and encryption algorithms Integrate Spring Security with technologies such as microservices Kubernetes the cloud and GraalVM native images Purchase of the print or Kindle book includes a free PDF eBook Book Description With experienced hackers constantly targeting apps properly securing them becomes challenging when you integrate this factor with legacy code new technologies and other frameworks Written by a Lead Cloud and Security Architect as well as CISSP this book helps you easily secure your Java apps with Spring Security a trusted and highly customizable authentication and access control framework The book shows you how to implement different authentication mechanisms and properly restrict access to your app You'll learn to integrate Spring Security with popular web frameworks like Thymeleaf and Microservice and Cloud services like Zookeeper and Eureka along with architecting solutions that leverage its full power while staying loosely coupled You'll also see how Spring Security defends against session fixation moves into concurrency control and how you can use session management for administrative functions This fourth edition aligns with Java 17 21 and Spring Security 6 covering advanced security scenarios for RESTful web services and microservices This ensures you fully understand the issues surrounding stateless authentication and discover a concise approach to solving those issues By the end of this book you'll be able to integrate Spring Security 6 with GraalVM native images seamlessly from start to finish What you will learn Understand common security vulnerabilities and how to resolve them Implement authentication and authorization and learn how to map users to roles Integrate Spring Security with LDAP Kerberos SAML 2 OpenID and OAuth Get to grips with the security challenges of RESTful web services and microservices Configure Spring Security to use Spring Data for authentication Integrate Spring Security with Spring Boot Spring Data and web applications Protect against common vulnerabilities like XSS CSRF and Clickjacking Who this book is for If you're a Java web developer or an architect with fundamental knowledge of Java 17 21 web services and the Spring Framework this book is for you No previous experience with Spring Security is needed to get started with this book

Practical Guide to Building an API Back End with Spring Boot Wim Deblauwe, 2018-09-25 Starting your first project with Spring Boot can be a bit daunting given the vast options that it provides This book will guide you step by step along the way to be a Spring Boot hero in no time The book covers Setup of your project Security and user management for your application Writing REST endpoints Connecting with a database from your application Unit and integration testing for all aspects Writing documentation for your REST endpoints Support file upload from your REST API

Hands-On Reactive Programming in Spring 5 Oleh Dokuka, Igor Lozynskyi, 2018-10-08 Today businesses need a new type of system that can remain responsive at all times This result is achievable and is called reactive which means it reacts to changes The development of such systems is a complex task requiring a deep understanding of the domain The developers of the Spring Framework help with the reactive version

The JHipster Mini-Book Matt Raible, 2016-04-06 The JHipster Mini Book is a guide to getting started with hip technologies today Angular Bootstrap and Spring Boot All of these frameworks are wrapped up in an easy to use project called JHipster JHipster is a development platform to generate develop and deploy Spring Boot Angular or React Vue web applications and microservices This book shows you how to build an app with JHipster and guides you through the plethora of tools techniques and options you can use Then it shows you how to secure your data and deploy your app to Heroku Furthermore it explains the UI and API building blocks so you understand the underpinnings of your great application The latest edition v7.0 is updated for JHipster 7 This edition includes an updated microservices section that features WebFlux and micro frontends with React You can find the blog for the JHipster Mini Book at <http://www.jhipster-book.com> You can also follow it on Twitter at https://twitter.com/jhipster_book Purpose of the book To provide free information to the JHipster community I've used many of the frameworks that JHipster supports and I like how it integrates them Building web and mobile applications with Angular Bootstrap and Spring Boot is a great experience I want to encourage more developers to try it

Microservices with Spring Boot 3 and Spring Cloud Magnus Larsson, 2023-08-31 Create and deploy production grade microservices based applications with this latest edition updated to Spring Boot 3 Java 17 and Spring Cloud 2022 Purchase of the print or Kindle book includes a free PDF eBook Key Features Build cloud native production ready microservices and stay ahead of the curve Understand the challenges of building large scale microservice architectures Learn how to get the best out of the latest updates including Spring Boot 3 Spring Cloud Kubernetes and Istio Book Description Looking to build and deploy microservices but not sure where to start Check out Microservices with Spring Boot 3 and Spring Cloud Third Edition With a practical approach you'll begin with simple microservices and progress to complex distributed applications Learn essential functionality and deploy microservices using Kubernetes and Istio This book covers Java 17 Spring Boot 3 and Spring Cloud 2022 Java EE packages are replaced with the latest Jakarta EE packages Code examples are updated and deprecated APIs have been replaced providing the most up to date information Gain knowledge of Spring's AOT module observability distributed tracing and Helm 3 for Kubernetes packaging Start with Docker

Compose to run microservices with databases and messaging services Progress to deploying microservices on Kubernetes with Istio Explore persistence resilience reactive microservices and API documentation with OpenAPI Learn service discovery with Netflix Eureka edge servers with Spring Cloud Gateway and monitoring with Prometheus Grafana and the EFK stack By the end you ll build scalable microservices using Spring Boot and Spring Cloud What you will learn Build reactive microservices using Spring Boot Develop resilient and scalable microservices using Spring Cloud Use OAuth 2 1 OIDC and Spring Security to protect public APIs Implement Docker to bridge the gap between development testing and production Deploy and manage microservices with Kubernetes Apply Istio for improved security observability and traffic management Write and run automated microservice tests with JUnit test containers Gradle and bash Use Spring AOT and GraalVM to native compile the microservices Use Micrometer Tracing for distributed tracing Who this book is for If you re a Java or Spring Boot developer learning how to build microservice landscapes from scratch then this book is for you To get started you need some prior experience in building apps with Java or Spring Boot

Modern API Development with Spring 6 and Spring Boot 3 Sourabh Sharma, 2023-09-22 Discover ways to enhance your application s functionality through hands on learning for designing testing securing deploying and maintaining production ready APIs Key Features Learn how to design develop test and deploy modern APIs in Java Explore techniques for optimizing API performance and handling errors Secure your APIs with industry standard authentication and authorization techniques Get a free PDF eBook with the purchase of the print or Kindle book Book Description Spring is a powerful and widely adopted framework for building scalable and reliable web applications in Java complemented by Spring Boot a popular extension to the framework that simplifies the setup and configuration of Spring based applications This book is an in depth guide to harnessing Spring 6 and Spring Boot 3 for web development offering practical knowledge of building modern robust web APIs and services The book covers a wide range of topics that are essential for API development including RESTful web service fundamentals Spring concepts and API specifications It also explores asynchronous API design security designing user interfaces testing APIs and the deployment of web services In addition to its comprehensive coverage this book offers a highly contextual real world sample app that you can use as a reference for building different types of APIs for real world applications This sample app will lead you through the entire API development cycle encompassing design and specification implementation testing and deployment By the end of this book you ll have learned how to design develop test and deploy scalable and maintainable modern APIs using Spring 6 and Spring Boot 3 along with best practices for bolstering the security and reliability of your applications and improving your application s overall functionality What you will learn Create enterprise level APIs using Spring and Java Understand and implement REST gRPC GraphQL and asynchronous APIs for various purposes Develop real world web APIs and services from design to deployment Expand your knowledge of API specifications and implementation best practices Design and implement secure APIs with authorization and authentication Develop microservices based solutions with workflow and orchestration

engines Acquire proficiency in designing and testing user interfaces for APIs Implement logging and tracing mechanisms in your services and APIs Who this book is for This book is for novice Java programmers computer science graduates coding boot camp alumni and newcomers to the realm of creating real world web APIs and services It is an invaluable resource for Java developers transitioning to web development offering an all encompassing introduction to web service development If you possess knowledge of fundamental programming constructs data structures and algorithms in Java but lack practical web development experience this book will serve as a bridge to cultivate the essential skills for entry into the role of a web developer

Spring Boot: Up and Running Mark Heckler,2021-02-05 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

Building Applications with Spring 5 and Kotlin Miloš Vasić,2018-05-18 Learn to build a full fledged application in Spring and Kotlin taking a reactive microservice based approach for scalability and robustness in the cloud Key Features Build a full fledged application in Spring and Kotlin Architect your application to take a microservice based approach in the cloud Integrate your application with a variety of Spring components Book Description Kotlin is being used widely by developers because of its light weight built in null safety and functional and reactive programming aspects Kotlin shares the same pragmatic innovative and opinionated mindset as Spring so they work well together Spring when combined with Kotlin helps you to reach a new level of productivity This combination has helped developers to create Functional Applications using both the tools together This book will teach you how to take advantage of these developments and build robust scalable and reactive applications with ease In this book you will begin with an introduction to Spring and its setup with Kotlin You will then dive into assessing the design considerations of your application Then you will learn to use Spring with Spring Boot along with Kotlin to build a robust backend in a microservice architecture with a REST based collaboration and leverage Project Reactor in your application You ll then learn how to integrate Spring Data and Spring Cloud to manage configurations for database interaction and cloud deployment You

It also learn to use Spring Security to beef up security of your application before testing it with the JUnit framework and then deploying it on a cloud platform like AWS What you will learn Explore Spring 5 concepts with Kotlin Learn both dependency injections and complex configurations Utilize Spring Data Spring Cloud and Spring Security in your applications Create efficient reactive systems with Project Reactor Write unit tests for your Spring Kotlin applications Deploy applications on cloud platforms like AWS Who this book is for Developers comfortable using Spring who have basic knowledge of Kotlin and want to take their development skills to the next level and build enterprise grade applications will benefit from this book

Hacking with Spring Boot 2.4 Greg L Turnquist,2021-04-09 Spring Boot 2.4 is what everyone turns to build top of the line systems when it comes to Java application development Learn the latest features that can make your apps rock solid including Web and Data access Developer tools and test support Operational features Docker container baking li GraalVM production support Messaging Security More Written cover to cover using Java's de facto toolkit Spring your apps will perform like never before Grab your copy today and learn to build top notch powerful solutions with modern tactics Greg L Turnquist works on the Spring team as a principal developer at VMware He is a committer to Spring HATEOAS Spring Data Spring Boot R2DBC and Spring Session for MongoDB He has written Hacking with Spring Boot 2.3 Reactive Edition as well as Packt's best selling title Learning Spring Boot 2.0 2nd Edition He co founded the Nashville Java User Group in 2010 and hasn't met a Java app yet that he doesn't like Be sure to subscribe to Spring Boot Learning the YouTube channel where you learn about Spring Boot and have fun doing it at YouTube.com/GregTurnquist

Building a RESTful Web Service with Spring Ludovic Demailly,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

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Table of Contents Learning Spring Boot Turnquist Greg L

1. Understanding the eBook Learning Spring Boot Turnquist Greg L
 - The Rise of Digital Reading Learning Spring Boot Turnquist Greg L
 - Advantages of eBooks Over Traditional Books
2. Identifying Learning Spring Boot Turnquist Greg L
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Learning Spring Boot Turnquist Greg L
 - User-Friendly Interface
4. Exploring eBook Recommendations from Learning Spring Boot Turnquist Greg L
 - Personalized Recommendations

- Learning Spring Boot Turnquist Greg L User Reviews and Ratings
- Learning Spring Boot Turnquist Greg L and Bestseller Lists
- 5. Accessing Learning Spring Boot Turnquist Greg L Free and Paid eBooks
 - Learning Spring Boot Turnquist Greg L Public Domain eBooks
 - Learning Spring Boot Turnquist Greg L eBook Subscription Services
 - Learning Spring Boot Turnquist Greg L Budget-Friendly Options
- 6. Navigating Learning Spring Boot Turnquist Greg L eBook Formats
 - ePub, PDF, MOBI, and More
 - Learning Spring Boot Turnquist Greg L Compatibility with Devices
 - Learning Spring Boot Turnquist Greg L Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Learning Spring Boot Turnquist Greg L
 - Highlighting and Note-Taking Learning Spring Boot Turnquist Greg L
 - Interactive Elements Learning Spring Boot Turnquist Greg L
- 8. Staying Engaged with Learning Spring Boot Turnquist Greg L
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Learning Spring Boot Turnquist Greg L
- 9. Balancing eBooks and Physical Books Learning Spring Boot Turnquist Greg L
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Learning Spring Boot Turnquist Greg L
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Learning Spring Boot Turnquist Greg L
 - Setting Reading Goals Learning Spring Boot Turnquist Greg L
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Learning Spring Boot Turnquist Greg L
 - Fact-Checking eBook Content of Learning Spring Boot Turnquist Greg L

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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