
Building A Restful Web Service With Spring Packt Books

Spring Boot 2.0 Projects

Building RESTful Web Services with DropWizard

RESTful Web API Patterns and Practices Cookbook

Hands-On RESTful Web Services with Java 11

Building Hypermedia APIs with HTML5 and Node

RESTful Java Web Services

Building RESTful Web services with Go

Building RESTful Web Services with PHP 7

Building RESTful Web Services with Go

Python API Development Fundamentals

Spring REST

ASP.NET Web API 2: Building a REST Service from Start to Finish

Building RESTful Web Services with Java EE 8

RESTful Web API Design with Node. Js 10, Third Edition

Building Web Services with Java EE 8

Spring 5.0 Projects

Building a RESTful Web Service with Spring

REST API Development with Node.js

Web-Services mit REST

REST API Design Rulebook

Restlet in Action

Django RESTful Web Services

Spring REST

Building Web Applications with Erlang

RESTful Web Services with Dropwizard

RESTful Web Services with Scala

Start Building Restful Microservices Using Akka HTTP with Scala: A Quick Start Guide to Building Microservices Using Akka HTTP with Scala in a One-Wee

RESTful .NET

ASP.NET MVC 4 and the Web API

Building REST API Services using Deno and PostgreSQL

RESTful Java with JAX-RS 2.0

Building RESTful Python Web Services

Building RESTful Web Services with .NET Core

Building RESTful Web Services with Spring 5

RESTful Web APIs

RESTful Java Web Services

RESTful Java Web Services - Third Edition

Hands-On Full Stack Development with Spring Boot 2 and React

CHRISTINE FREDDY

Spring Boot 2.0 Projects Packt Publishing Ltd

Create web services that are lightweight, maintainable, scalable, and secure using the best tools and techniques designed for Python. About This Book* Develop RESTful Web Services using the most popular frameworks in Python* Configure and fine-tune your APIs using the best tools and techniques available* This practical guide will help you to implement complete REST-based APIs from scratch. Who This Book Is For The book takes a straightforward approach, not spending time getting you started with RESTful APIs and web services. It will give you the best use cases for each framework to build great web services in Python. What you will learn* Develop complex RESTful APIs from scratch with Python combined with and without data sources* Choose the most appropriate (micro) framework based on the specific requirements of a RESTful API / web service* Debug, test, and profile RESTful APIs with each of the frameworks* Develop a complex RESTful API that interacts with a PostgreSQL database* Add authentication and permissions to a RESTful API built in each of the frameworks. In Detail Python is the language of choice for millions of developers worldwide, due to its gentle learning curve as well as its vast applications in day-to-day programming. It serves the purpose of building great web services in the RESTful architecture, and this book will show you the best tools you can use to build your own web services. This book will show you how to develop RESTful APIs using the popular Python frameworks and all the necessary stacks with Python, Django, Flask, Pyramid, and Tornado, combined with related libraries and tools. We will dive deep into each of these frameworks to build various web services, and will provide use cases and best practices on when to use a particular framework to get the best results. We will show you everything required to successfully develop RESTful APIs with the four frameworks such as request handling, URL mapping, serialization, validation, authentication, authorization, versioning, ORMs, databases, custom code for models and views, and asynchronous callbacks. At the end of each framework, we will add authentication and security to the RESTful APIs and prepare tests for it. By the end of the book, you will have a deep understanding of the stacks needed to build RESTful web services.

Building RESTful Web Services with DropWizard "O'Reilly Media, Inc."

Learn how to build RESTful APIs with Dropwizard, a lightweight framework for Java web developers. Instructor Emmanuel Henri takes you step by step through your first project with Dropwizard, including setting up your development environment and exploring the project structure of a Dropwizard application. Next, take a tour of the foundational classes, including the configuration, application, representation, and resource classes. Discover how to create and refine your data model and add the endpoints necessary to post, retrieve, and update data from your API. In the final chapters, Emmanuel covers testing, compiling, and publishing the API in your local environment. Everything you learn in this course can be easily transferred to your own RESTful Dropwizard APIs. This course was created by Emmanuel Henri. We are pleased to offer this training in our library. *RESTful Web API Patterns and Practices Cookbook* Packt Publishing Ltd

Building RESTful Web Services with Go

Hands-On RESTful Web Services with Java 11 "O'Reilly Media, Inc."

Learn how to design and develop distributed web services in Java, using RESTful architectural principles and the JAX-RS 2.0 specification in Java EE 7. By focusing on implementation rather than theory, this hands-on reference demonstrates how easy it is to get started with services based on the REST architecture. With the book's technical guide, you'll learn how REST and JAX-RS work and when to use them. The RESTEasy workbook that follows provides step-by-step instructions for installing, configuring, and running several working JAX-RS examples, using the JBoss RESTEasy implementation of JAX-RS 2.0. Learn JAX-RS 2.0 features, including a client API, server-side asynchronous HTTP, and filters and interceptors. Examine the design of a distributed RESTful interface for an e-commerce order entry system. Use the JAX-RS Response object to return complex responses to your client (ResponseBuilder). Increase the performance of your services by leveraging HTTP caching protocols. Deploy and integrate web services within Java EE7, servlet containers, EJB, Spring, and JPA. Learn popular mechanisms to perform authentication on the Web, including client-side SSL and OAuth 2.0.

Building Hypermedia APIs with HTML5 and Node "O'Reilly Media, Inc."

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. You will: 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.

RESTful Java Web Services Packt Publishing Ltd

The ASP.NET MVC Framework has always been a good platform on which to implement REST-based services, but the introduction of the ASP.NET Web API Framework raised the bar to a whole new level. Now in release version 2.1, the Web API Framework has evolved into a powerful and refreshingly usable platform. This concise book provides technical background and guidance that will enable you to best use the ASP.NET Web API 2 Framework to build world-class REST services. New content in this edition includes: New capabilities in Web API 2 (currently version 2.1). Support for partial updates, or PATCH. API versioning. Support for legacy SOAP-based operations. How to handle non-resource APIs using REST. How to best expose relationships between resources. JSON Web Tokens, CORS, CSRF. Get ready for authors Jamie Kurtz and Brian Wortman to take you from zero to

REST service hero in no time at all. No prior experience with ASP.NET Web API is required; all Web API-related concepts are introduced from basic principles and developed to the point where you can use them in a production system. A good working knowledge of C# and the .NET Framework are the only prerequisites to best benefit from this book.

Building RESTful Web services with Go Packt Publishing Ltd

Django is a Python web framework that makes the web development process very easy. It reduces the amount of trivial code that simplifies the creation of web applications and results in faster development. It is a very powerful and a great choice for creating RESTful web services. If you are a python developer who wants to create RESTful web ...

Building RESTful Web Services with PHP 7 Packt Publishing Ltd

The approach we take is ideal for software developers with some, or extensive, programming experience: we design a RESTful API, which serves as our software specification, and implement it with every framework discussed in the book—there are no hypothetical examples; only practical working applications. This book is for Java developers who want to code RESTful web services using any of the open source RESTful frameworks available to date, for example, JAX-RS implementations such as Jersey and RESTEasy, the Restlet lightweight framework, or Struts 2 with the REST plug-in. You don't need to know REST, as we cover the theory of REST and web services; however, you should be familiar with the Java language and have some understanding of Java web applications. For each framework, we develop the same web service outlined in Chapter 4, so there is lots of working code available. This is a practical guide and the majority of the book is about coding RESTful web services, and not just about the theory of REST.

Building RESTful Web Services with Go Apress

Summary Restlet in Action gets you started with the Restlet Framework and the REST architecture style. You'll create and deploy applications in record time while learning to use popular RESTful Web APIs effectively. This book looks at the many aspects of web development, on both the server and client side, along with cloud computing, mobile Android devices, and Semantic Web applications. About the Technology In a RESTful architecture any component can act, if needed, as both client and server—this is flexible and powerful, but tricky to implement. The Restlet project is a reference implementation with a Java-based API and everything you need to build servers and web clients that integrate with most web and enterprise technologies. About the Book Restlet in Action introduces the Restlet Framework and RESTful web APIs. You'll see how to easily create and deploy your own web API while learning to consume other web APIs effectively. You'll learn about designing, securing, versioning, documentation, optimizing, and more on both the server and client side, as well as about cloud computing, mobile Android devices, and Semantic Web applications. The book requires a basic knowledge of Java and the web, but no prior exposure to REST or Restlet. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Written by the creators of Restlet! How to create your own web API How to deploy on cloud and mobile platforms Focus on Android, Google App Engine, Google Web Toolkit, and OSGi technologies Table of Contents PART 1 GETTING STARTED Introducing the Restlet Framework Beginning a Restlet application Deploying a Restlet application PART 2 GETTING READY TO ROLL OUT Producing and consuming Restlet representations Securing a Restlet application

Documenting and versioning a Restlet application Enhancing a Restlet application with recipes and best practices PART 3 FURTHER USE POSSIBILITIES Using Restlet with cloud platforms Using Restlet in browsers and mobile devices Embracing hypermedia and the Semantic Web The future of Restlet [Python API Development Fundamentals](#) Apress

Explore the necessary concepts of REST API development by building few real world services from scratch. Key Features 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 Book Description 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. 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 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.

Spring REST "O'Reilly Media, Inc."

Book Description This book is a part of Knoldus Reactive Programming Series. Few years ago, applications were much simpler and required all solutions at one place, we call them monolithic applications. Now a days markets are changing rapidly. You either adapt quickly or you go out of business. If your application is successful, you will start enhancing features day by day and as a result, your application becomes complex day by day and that complexity creates challenges in development. It will be difficult to fully understand and made changes fast and correctly. You must redeploy the entire application on each update. These type of application also has a barrier to adopting new technologies because it will affect the entire application. In this book, you will learn how you can manage this problem by dividing project into smaller pieces. You will learn how quickly you can start transforming your monolithic application into microservices. Microservice can be developed using different programming language (Personally I don't suggest to do it). I prefer Akka HTTP because it is fully integrated into Typesafe stack. Since there are already a lot of scala

frameworks to build REST APIs then the obvious question is Why Akka HTTP? There are many reasons to use Akka HTTP, which you will learn in this book. I have written this book for those who want to start developing REST API right away and have a basic understanding of Scala. I don't exhaustively list all feature of Akka HTTP. I don't make you suffer through long and contrived example. I have tried to explain every topic of this book with short and easy to understand examples with test-cases. Akka HTTP is available for both Java and Scala but in this book, we will go with Scala. I choose Scala because it cuts down on boilerplate and we can concentrate on the logic of our problems. In Scala, you are not limited to just object-oriented patterns to implement your code, you can bring in functional paradigms as well. What You'll Learn Advantage of using Microservices architecture over monolithic Introduction to Akka HTTP Start coding in Akka HTTP Powerful JSON (un)marshalling support How to build server-side API How to build client-side API WebSocket support using Akka HTTP By the end of the book, you will get the links of multiple sample projects of Akka HTTP. For ex.: Akka HTTP with SOLRAkka HTTP with SlickAkka HTTP with Neo4J You will also get templates with frameworks like Angular.js, Spark Et al. You can clone these sample projects according to your requirement and start playing with restful web services. Who This Book Is For Those who want to start working on microservices architecture right away. The only pre-requisite to this book is that you are "comfortable" with Scala. However language is not a bar, even if you want to develop java microservices using Akka HTTP, you can still read this book to understand the concept. I have used the latest version of Akka HTTP in this book. About The Author Ayush Kumar Mishra is a Lead Scala Consultant based in Singapore. He is currently working with Knoldus, an organization where knowledge sharing and upskilling each Knolder is a way of life, which is the only organization to be partners with Lightbend, Databricks, Confluent and Datastax to deliver high-quality reactive products to its global clients. He has been working in Scala for more than 5 years. He loves to troubleshoot complex problems and look for the best solutions. In his career, he has successfully developed and delivered various microservice based systems with Scala and Akka HTTP. When he is not programming, he writes technical blogs. Most of his blogs are related to rest api design. He has also transformed some monolithic systems into microservice based system.

ASP.NET Web API 2: Building a REST Service from Start to Finish Native Enterprise
Create web services that are lightweight, maintainable, scalable, and secure using the best tools and techniques designed for Python About This Book Develop RESTful Web Services using the most popular frameworks in Python Configure and fine-tune your APIs using the best tools and techniques available This practical guide will help you to implement complete REST-based APIs from scratch Who This Book Is For This book is for web developers who have working knowledge of Python and would like to build amazing web services by taking advantage of the various frameworks of Python. You should have some knowledge of RESTful APIs. What You Will Learn Develop complex RESTful APIs from scratch with Python combined with and without data sources Choose the most appropriate (micro) framework based on the specific requirements of a RESTful API / web service Debug, test, and profile RESTful APIs with each of the frameworks Develop a complex RESTful API that interacts with a PostgreSQL database Add authentication and permissions to a RESTful API built in each of the frameworks Map URL patterns to request handlers and check how the API works Profile an existing API and refactor it to take advantage of asynchronous code In Detail Python is the language of

choice for millions of developers worldwide, due to its gentle learning curve as well as its vast applications in day-to-day programming. It serves the purpose of building great web services in the RESTful architecture. This book will show you the best tools you can use to build your own web services. Learn how to develop RESTful APIs using the popular Python frameworks and all the necessary stacks with Python, Django, Flask, and Tornado, combined with related libraries and tools. We will dive deep into each of these frameworks to build various web services, and will provide use cases and best practices on when to use a particular framework to get the best results. We will show you everything required to successfully develop RESTful APIs with the four frameworks such as request handling, URL mapping, serialization, validation, authentication, authorization, versioning, ORMs, databases, custom code for models and views, and asynchronous callbacks. At the end of each framework, we will add authentication and security to the RESTful APIs and prepare tests for it. By the end of the book, you will have a deep understanding of the stacks needed to build RESTful web services. Style and approach The book takes a straightforward approach, not spending time getting you started with RESTful APIs and web services. It will give you the best use cases for each framework to build great web services in Python.

Building RESTful Web Services with Java EE 8 "O'Reilly Media, Inc."

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.

RESTful Web API Design with Node.js 10, Third Edition O'Reilly Germany

Design scalable and robust RESTful web services with JAX-RS and Jersey extension APIs About This Book Get to grips with the portable Java APIs used for JSON processing Design solutions to produce, consume, and visualize RESTful web services using WADL, RAML, and Swagger A step-by-step guide packed with many real-life use-cases to help you build efficient and secure RESTful web APIs in Java Who This Book Is For If you are a web developer with a basic understanding of the REST concepts but are new to the idea of designing and developing RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must. What You Will Learn Introduce yourself to the RESTful software architectural style and the REST API design principles Make use of the JSR 353 APIs and Jackson API for JSON processing Build portable RESTful web APIs, making use of the JAX-RS 2.0 API Simplify API development using the Jersey extension APIs Secure your RESTful web services with various authentication and authorization mechanisms Get to grips with the various metadata solutions to describe, produce, and consume RESTful web services Understand the design and coding guidelines to build well-performing RESTful APIs See how the role of RESTful web services changes with emerging technologies and trends In Detail REST

(REpresentational State Transfer) is a simple yet powerful software architecture style to create scalable web services and allow them to be simple, lightweight, and fast. The REST API uses HTTP and JSON, so that it can be used with many programming languages such as Ruby, Java, Python, and Scala. Its use in Java seems to be the most popular though, because of the API's reusability. This book is a guide to developing RESTful web services in Java using the popular RESTful framework APIs available today. You will begin with gaining an in-depth knowledge of the RESTful software architectural style and its relevance in modern applications. Further, you will understand the APIs to parse, generate, transform, and query JSON effectively. Then, you will see how to build a simple RESTful service using the popular JAX-RS 2.0 API along with some real-world examples. This book will introduce you to the Jersey framework API, which is used to simplify your web services. You will also see how to secure your services with various authentication mechanisms. You will get to grips with various solutions to describe, produce, consume, and visualize RESTful web services. Finally, you will see how to design your web services to equip them for the future technological advances, be it Cloud or mobile computing. By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services, making use of the JAX-RS and Jersey framework extensions. Style and approach This book is written as a step-by-step guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions.

Building Web Services with Java EE 8 Packt Publishing Ltd

The popularity of REST in recent years has led to tremendous growth in almost-RESTful APIs that don't include many of the architecture's benefits. With this practical guide, you'll learn what it takes to design usable REST APIs that evolve over time. By focusing on solutions that cross a variety of domains, this book shows you how to create powerful and secure applications, using the tools designed for the world's most successful distributed computing system: the World Wide Web. You'll explore the concepts behind REST, learn different strategies for creating hypermedia-based APIs, and then put everything together with a step-by-step guide to designing a RESTful Web API. Examine API design strategies, including the collection pattern and pure hypermedia Understand how hypermedia ties representations together into a coherent API Discover how XMDP and ALPS profile formats can help you meet the Web API "semantic challenge" Learn close to two-dozen standardized hypermedia data formats Apply best practices for using HTTP in API implementations Create Web APIs with the JSON-LD standard and other the Linked Data approaches Understand the CoAP protocol for using REST in embedded systems

Spring 5.0 Projects Packt Publishing Ltd

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 a RESTful Web Service with Spring Independently Published

Design and implement scalable and maintainable RESTful solutions with Node.js 10 Key Features Create rich and scalable RESTful API solutions from scratch Explore the new features of Node.js 10, Express 4.0, and MongoDB Integrate MongoDB in your Node.js application to store and secure your data Book Description When building RESTful services, it is really important to choose the right framework. Node.js, with its asynchronous, event-driven architecture, is exactly the right choice for building RESTful APIs. This third edition of RESTful Web API Design with Node.js 10 will teach you to create scalable and rich RESTful applications based on the Node.js platform. You will be introduced to the latest NPM package handler and understand how to use it to customize your RESTful development process. You will begin by understanding the key principle that makes an HTTP application a RESTful-enabled application. After writing a simple HTTP request handler, you will create and test Node.js modules using automated tests and mock objects; explore using the NoSQL database, MongoDB, to store data; and get to grips with using self-descriptive URLs. You'll learn to set accurate HTTP status codes along with understanding how to keep your applications backward-compatible. Also, while implementing a full-fledged RESTful service, you will use Swagger to document the API and implement automation tests for a REST-enabled endpoint with Mocha. Lastly, you will explore some authentication techniques to secure your application. What you will learn Install, develop, and test your own Node.js user modules Understand the differences between HTTP and RESTful applications Use self-descriptive URLs and set accurate HTTP status codes Eliminate third-party dependencies in your tests with mocking Implement automation tests for a REST-enabled

endpoint with Mocha Secure your services with NoSQL database integration within Node.js applications Integrate a simple frontend using JavaScript libraries available on a CDN server Who this book is for If you are a web developer keen to enrich your development skills to create server-side RESTful applications based on the Node.js platform, this book is for you. Some knowledge of REST would be an added advantage, but is definitely not a necessity.

REST API Development with Node.js "O'Reilly Media, Inc."

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.

Web-Services mit REST Manning Publications

The world is moving towards RESTful Web Services and now you can get up to speed quickly and painlessly. This tutorial covers all you need to create your own Web Service applications using the Dropwizard libraries. -- Amazon.com.

REST API Design Rulebook Packt Publishing Ltd

Many organizations today orchestrate and maintain apps that rely on other people's services. Software designers, developers, and architects in those companies often work to coordinate and maintain apps based on existing microservices, including third-party services that run outside their ecosystem. This cookbook provides proven recipes to help you get those many disparate parts to work together in your network. Author Mike Amundsen provides step-by-step solutions for finding, connecting, and maintaining applications designed and built by people outside the organization. Whether you're working on human-centric mobile apps or creating high-powered machine-to-machine solutions, this guide shows you the rules, routines, commands, and protocols—the glue—that integrates individual microservices so they can function together in a safe, scalable, and reliable way. Design and build individual microservices that can successfully interact on the open web Increase interoperability by designing services that share a common understanding Build client applications that can adapt to evolving services without breaking Create resilient and reliable microservices that support peer-to-peer interactions on the web Use web-based service registries to support runtime "find-and-bind" operations that manage external dependencies in real time Implement stable workflows to accomplish complex, multiservice tasks consistently

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