

Developing RESTful web APIs in Java



Restlet

IN ACTION

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MANNING

Restlet In Action Developing Restful Web Apis In Java

Josh Long



Restlet In Action Developing Restful Web Apis In Java:

Restlet in Action Thierry Templier,Thierry Boileau,Jerome Louvel,2012-09-25 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 [SOA with REST](#) Thomas Erl,Benjamin Carlyle,Cesare Pautasso,Raj Balasubramanian,2012-08-06 The Definitive Guide to Building Web Centric SOA with REST The World Wide Web is based on the most successful technology architecture in history It has changed how we view access and exchange information and with the advent of REST it has also provided us with compelling ways to build and improve automation solutions REST provides a great deal of guidance to ensure that an architecture and its automation logic are technically sound though it is still your responsibility to build services that actually add value to your business SOA with REST is the first comprehensive tutorial and reference for designing and building RESTful services as part of service oriented solutions and in conjunction with service oriented architecture SOA This book demonstrates that REST is not only a suitable medium for building truly service oriented solutions but also that the service oriented architectural model is a necessary foundation for REST technology architectures to realize their full business potential The authors provide thorough mapping of REST constraints and architectural goals with service orientation principles and SOA characteristics Using real world examples

they show how to leverage REST's simplicity, flexibility, and low overhead without compromising the power or manageability of service-oriented solutions and architectures. This ebook will be valuable to IT architects, developers, and any practitioner seeking to use SOA and REST together.

Camel in Action Claus Ibsen, Jonathan Anstey, 2018-02-02 Summary: Camel in Action Second Edition is the most complete Camel book on the market. Written by core developers of Camel and the authors of the highly acclaimed first edition, this book distills their experience and practical insights so that you can tackle integration tasks like a pro. Forewords by James Strachan and Dr Mark Little. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology: Apache Camel is a Java framework that implements enterprise integration patterns (EIPs) and comes with over 200 adapters to third-party systems. A concise DSL lets you build integration logic into your app with just a few lines of Java or XML. By using Camel, you benefit from the testing and experience of a large and vibrant open-source community. About the Book: Camel in Action Second Edition is the definitive guide to the Camel framework. It starts with core concepts like sending, receiving, routing, and transforming data. It then goes in depth on many topics such as how to develop, debug, test, deal with errors, secure, scale, cluster, deploy, and monitor your Camel applications. The book also discusses how to run Camel with microservices, reactive systems, containers, and in the cloud. What's Inside: Coverage of all relevant EIPs, Camel microservices with Spring Boot, Camel on Docker and Kubernetes, error handling, testing, security, clustering, monitoring, and deployment. Hundreds of examples in Java and XML. About the Reader: Readers should be familiar with Java. This book is accessible to beginners and invaluable to experts. About the Author: Claus Ibsen is a senior principal engineer working for Red Hat, specializing in cloud and integration. He has worked on Apache Camel for the last nine years, where he heads the project. Claus lives in Denmark. Jonathan Anstey is an engineering manager at Red Hat and a core Camel contributor. He lives in Newfoundland, Canada.

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Reactive Camel: Camel and the IoT by Henryk Konsek

REST: From Research to Practice Erik Wilde, Cesare Pautasso, 2011-08-04 This volume provides an overview and an understanding of REST (Representational State Transfer). Discussing the constraints of REST, the book focuses on REST as a type of web architectural style. The focus is on applying REST beyond Web applications, i.e. in enterprise environments, and in reusing established and well-understood design patterns when doing so. The reader will be able to understand how RESTful systems can be designed and deployed, and what the results are in terms of benefits and

challenges encountered in the process Since REST is relatively new as an approach for designing Web Services the more advanced part of the book collects a number of challenges to some of the assumptions and constraints of REST and looks at current research work on how REST can be extended and applied to scenarios that often are considered not to be a good match for REST This work will help readers to reach a deeper understanding of REST on a practical as well as on an advanced level

RESTful Java Web Services José Sandoval,2009 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

Active Media Technology Runhe Huang, Ali A. Ghorbani, Takahira Yamaguchi, Gabriella Pasi, Neil Yen, Beihong Jin,2012-11-28 This book constitutes the refereed proceedings of the 8th International Conference on Active Media Technology AMT 2012 held in Macau China in December 2012 The 65 revised full papers were carefully reviewed and selected from a numerous submissions The papers are organized in topical sections on awareness multi agent systems data mining ontology mining web reasoning social applications of active media human centered computing personalization and adaptation smart digital art and e learning

RESTful Java Web Services Bogunuva Mohanram Balachandar,2017-11-17 Master core REST concepts and create RESTful web services in Java About This Book Build efficient and secure RESTful web APIs in Java Design solutions to produce consume and visualize RESTful web services using WADL RAML and Swagger Familiarize the role of RESTful APIs usage in emerging technology trends like Cloud IoT Social Media Who This Book Is For If you are a web developer with a basic understanding of the REST concepts and envisage to get acquainted with 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 API JSR 374 API JSR 367 API and Jackson API for JSON processing Build portable RESTful web APIs making use of the JAX RS 2.1 API Simplify API development using the Jersey and RESTEasy 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 Representational State Transfer REST is a simple yet powerful software architecture style to create lightweight and scalable web services The RESTful web services use HTTP as the transport protocol and can use any message formats including XML JSON widely used CSV and many more which makes it easily inter operable across different languages and platforms This successful book is currently in its 3rd edition and has been used by thousands of developers It serves as an excellent guide for developing RESTful web services in Java This book attempts to familiarize the reader with the concepts of REST It is a pragmatic guide for designing and developing web services using Java APIs for real life use cases following best practices and for learning to secure REST APIs using OAuth and JWT Finally you will learn the role of RESTful web services for future technological advances be it cloud IoT or social media By the end of this book you will be able to efficiently build robust scalable and secure RESTful web services using Java APIs Style and approach 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 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 [Java API for RESTful Web Services](#) Zanis Khan,2020 Master the Java

API for RESTful Web Services in this in depth course from Java expert Zanis Khan There are seven topics which focus on the Java programming language API spec allowing you to create powerful web services according to the Representational State Transfer architectural pattern Introducing RESTful Services Be able to explain RESTful Representational State Transfer services during this first topic in the Rest API using Java course Follow along with Zanis and learn about the tools we will use Oracle Weblogic and Eclipse Oracle database and the Chrome browser to start building APIs HTTP XML JSON and URIs are discussed as well Using the RESTful API Service Practice working with the RESTful API Service during this second topic in the Rest API using Java course Get the environment up and running and also set up two very important frameworks the Jersey framework and the Jackson framework Connecting to a Database Use the RESTful API service to connect to a database during this third topic in the Rest API using Java course Creating Search Functionality Part 1 Use the RESTful API service to create search functionality during this fourth topic in the Rest API using Java course Creating Search Functionality Part 2 Continue using the RESTful API service and build upon the prior session to include additional search functionality during this fifth topic in the Rest API using Java course Submitting Data Use the RESTful API service to submit data during this sixth topic in the Rest API using Java course Follow along with Zanis and practice using SQL to insert data into the relational database Updating and Deleting Data Use the RESTful API service to update and delete data during this seventh topic in the Rest API using Java course Follow along with Zanis and practice using SQL to update and delete data from the relational database

Restful Java Web Services Second Edition Jobinesh Purushothaman, 2015-09-18 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 approachThis 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

Java Web Services: Up and Running Martin Kalin,2013-08-27 Learn how to develop REST style and SOAP based web services and clients with this quick and thorough introduction This hands on book delivers a clear pragmatic approach to web services by providing an architectural overview complete working code examples and short yet precise instructions for compiling deploying and executing them You'll learn how to write services from scratch and integrate existing services into your Java applications With greater emphasis on REST style services this second edition covers HttpServlet Restlet and JAX RS APIs jQuery clients against REST style services and JAX WS for SOAP based services Code samples include an Apache Ant script that compiles packages and deploys web services Learn differences and similarities between REST style and SOAP based services Program and deliver RESTful web services using Java APIs and implementations Explore RESTful web service clients written in Java JavaScript and Perl Write SOAP based web services with an emphasis on the application level Examine the handler and transport levels in SOAP based messaging Learn wire level security in HTTP S users roles security and WS Security Use a Java Application Server JAS as an alternative to a standalone web server

Hands-On RESTful Web Services with Java 11 Luan Nico,2019 This course will help you create a RESTful web service right from scratch About This Video Implement an elegant REST API with Java from scratch by using powerful libraries Secure and validate RESTful services and REST architectural components Optimizing RESTful services for maximum efficiency and to save development time In Detail RESTful Web Services is a stateless client server architecture where web services are resources and can be identified by their URIs Implementing RESTful Web Services with Java helps to simplify the development and deployment of web services This course will show you how to implement a REST Web Service API in Java from scratch using servlets covering the basic concepts This will be later followed by improvements in security authentication authorization scalability performance API modeling CORS versioning and documentation Finally you will find out what libraries are available to help you implement an

API with ease how to integrate with different layers and kinds of dependencies how to integrate with other APIs and where and how to deploy your application By the end of this course you will be able to efficiently create reliable and powerful Java RESTful Web Services and get a clear understanding of the process by implementing it your web apps

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

[RESTful Java Web Services](#) Jobinesh Purushothaman, 2015-09-22 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

RESTful Web API Design with Node.js Valentin Bojinov, 2016-05-26 Design and implement efficient RESTful solutions with this practical hands on guide About This Book Create a fully featured RESTful API solution from scratch Learn how to leverage Node JS Express MongoDB and NoSQL datastores to give an extra edge to your REST API design Use this practical guide to integrate MongoDB in your Node js application Who This Book Is For The ideal target audience for this book is web developers who have some experience with RESTful services Familiarity with basic JavaScript programming techniques is required No prior experience with Node JS or Express js is required What You Will Learn Install develop and test your own

Node.js user modules Comprehend the differences between an HTTP and a RESTful application Optimize RESTful service URI routing with best practices Eliminate third party dependencies in your tests with mocking Learn about NoSQL data stores and integrate MongoDB in your Node.js application with Mongoose Secure your services with NoSQL database integration within Node.js applications Enrich your development skills to create scalable server side RESTful applications based on the Node.js platform In Detail In this era of cloud computing every data provisioning solution is built in a scalable and fail safe way Thus when building RESTful services the right choice for the underlying platform is vital Node.js with its asynchronous event driven architecture is exactly the right choice to build RESTful APIs This book will help you enrich your development skills to create scalable server side RESTful applications based on the Node.js platform Starting with the fundamentals of REST you will understand why RESTful web services are better data provisioning solution than other technologies You will start setting up a development environment by installing Node.js Express.js and other modules Next you will write a simple HTTP request handler and create and test Node.js modules using automated tests and mock objects You will then have to choose the most appropriate data storage type having options between a key value or document data store and also you will implement automated tests for it This module will evolve chapter by chapter until it turns into a full fledged and secure Restful service Style and approach Create state of the art RESTful API solutions leveraging Node JS 4 x

RESTful Java with JAX-RS 2.0 Bill Burke,2013-11-12 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 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 [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 Wizzler SOAP services Chrome Plugin and the Tomcat embedded web server We will help you set up each one of these Resource description page *Restful Java Patterns and Best Practices* Bhakti Mehta,2014-09-19 This book is aimed at novice developers who want to gain insights into building RESTful services and improve productivity as well as for advanced developers who want to delve into more complicated topics **RESTful Web APIs with Spring** Josh Long,2014 4 Hours of Video Instruction Overview RESTful Web APIs with Spring LiveLessons demonstrates how to write REST services and manage secure and consume them using Spring Boot Description REST has enabled people to build mobile applications that capture our imagination entertain us and help us REST has ushered in a generation of incredibly sophisticated HTML5 powered browser applications REST has also made it easier for organizations to adopt a service oriented architecture with less friction REST s flexibility however can also be its greatest weakness as often as not there is no clear guidance on where to go and how to get there What does it mean to deploy a REST service How do you handle errors in a REST service What s the easiest way to write a REST service Spring Developer Advocate Josh Long discusses and demonstrates strategies for securing REST API access along with handling errors and versioning These LiveLessons also cover how hypermedia and HATEOAS help you to deliver developer and consume friendly web services About the Instructor Josh Long is an open source developer and the Spring developer Advocate at Pivotal He is the author of four books and is the author of Spring Framework LiveLessons Josh has spoken at many different industry conferences internationally including TheServerSide Java Symposium SpringOne OSCON JavaZone DevOxx Java2Days and many others When he s not hacking on code for SpringSource he can be found at the local Java User Group or at the local coffee shop Josh likes solutions that push the boundaries of the technologies that enable them His interests include scalability BPM grid processing mobile computing and so called smart systems He blogs at spring io blog or joshlong com You can follow Josh on Twitter starbuxman Josh Long s Spring Framework LiveLessons provides a walking tour of all of the Spring projects including Spring Spring MVC Spring Data Spring Batch Spring Integration Spring Security Spring Social and more Skill Level Intermediate What You Will Learn Spring and Spring Boot How to build a REST service using Spring How to embrace hypermedia with Spring HATEOAS How to secure a REST API What s involved in deploying a micro service Who Should Take This Course Developers who want to jump on board the REST bandwagon REST is the key to enabling mobile and HTML5 applications REST is the technology that lets you play in a distributed

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