

Master Java Web Services And Rest Api With Spring Boot Udemy

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.

Sams has assembled a team of experts in web services to provide you with a detailed reference guide on XML, SOAP, USDL and UDDI. Building Web Services with Java is in its second edition and it includes the newest standards for managing security, transactions, reliability and interoperability in web service applications. Go beyond the explanations of standards and find out how and why these tools were designed as they are and focus on practical examples of each concept. Download your source code from the publisher's website and work with a running example of a full enterprise solution. Learn from the best in Building Web Services with Java.

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 "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), Wizdler (SOAP services Chrome Plugin), and the Tomcat embedded web server. We will help you set up each one of these."--Resource description page.

RESTful Web Services Cookbook

Perspectives on Web Services

Learn Every Aspect to Build Web Applications from Scratch

Services for a Changing World

Web Services Essentials

REST continues to gain momentum as the best method for building Web services, and this down-to-earth book delivers techniques and examples that show how to design and implement integration solutions using the REST architectural style.

"Every developer working with the Web needs to read this book." -- David Heinemeier Hansson, creator of the Rails framework "RESTful Web Services finally provides a practical roadmap for constructing services that embrace the Web, instead of trying to route around it." -- Adam Trachtenberg, PHP author and eBay Web Services Evangelist You've built web sites that can be used by humans. But can you also build web sites that are usable by machines? That's where the future lies, and that's what RESTful Web Services shows you how to do. The World Wide Web is the most popular distributed application in history, and Web services and mashups have turned it into a powerful distributed computing platform. But today's web service technologies have lost sight of the simplicity that made the Web successful. They don't work like the Web, and they're missing out on its advantages. This book puts the "Web" back into web services. It shows how you can connect to the programmable web with the technologies you already use every day. The key is REST, the architectural style that drives the Web. This book: Emphasizes the power of basic Web technologies -- the HTTP application protocol, the URI naming standard, and the XML markup language Introduces the Resource-Oriented Architecture (ROA), a common-sense set of rules for designing RESTful web services Shows how a RESTful design is simpler, more versatile, and more scalable than a design based on Remote Procedure Calls (RPC) Includes real-world examples of RESTful web services, like Amazon's Simple Storage Service and the Atom Publishing Protocol Discusses web service clients for popular programming languages Shows how to implement RESTful services in three popular frameworks -- Ruby on Rails, Restlet (for Java), and Django (for Python) Focuses on practical issues: how to design and implement RESTful web services and clients This is the first book that applies the REST design philosophy to real web services. It sets down the best practices you need to make your design a success, and the techniques you need to turn your design into working code. You can harness the power of the Web for programmable applications: you just have to work with the Web instead of against it. This book shows you how.

Annotation & bull; & bull;Covers J2EE, XML, XSD and JAXP (the Java XML API) Web Services, SOAP, UDDI, WSDL, Web Services Security and Interoperability & bull;Brings Java developers up to speed on developing Web Services applications using J2EE technologies and APIs & bull;Written by Richard Monson-Heafel; author with loyal following! & bull;This is the first book in a series of a books by Richard Monson-Heafel.

Explains what Web services technologies are and how they work, discussing how to use them and what they do and covering topics including SOAP, WSDL, UDDI, security, interoperability, and integration.

The Java EE 6 Tutorial

Create modern RESTful web services with the Java EE 8 API

Real World Web Services

Building Web Services and .NET Applications

Solutions for Improving Scalability and Simplicity

Master Java Web Services and REST API with Spring Boot

The Java EE 6 Tutorial: Advanced Topics, Fourth Edition, is a task-oriented, example-driven guide to developing enterprise applications for the Java Platform, Enterprise Edition 6 (Java EE 6). Written by members of the Java EE 6 documentation team at Oracle, this book provides new and intermediate Java programmers with a deep understanding of the platform. This guide-which builds on the concepts introduced in The Java EE 6 Tutorial: Basic Concepts, Fourth Edition-contains advanced material, including detailed introductions to more complex platform features and instructions for using the latest version of the NetBeans IDE and the GlassFish Server, Open Source Edition. This book introduces the Java Message Service (JMS) API and Java EE Interceptors. It also describes advanced features of JavaServer Faces, Servlets, JAX-RS, Enterprise JavaBeans components, the Java Persistence API, Contexts and Dependency Injection for the Java EE Platform, web and enterprise application security, and Bean Validation. The book culminates with three new case studies that illustrate the use of multiple Java EE 6 APIs.

This example-driven book offers a thorough introduction to Java's APIs for XML Web Services (JAX-WS) and RESTful Web Services (JAX-RS). Java Web Services: Up and Running takes a clear, pragmatic approach to these technologies by providing a mix of architectural overview, complete working code examples, and short yet precise instructions for compiling, deploying, and executing an application. You'll learn how to write web services from scratch and integrate existing services into your Java applications. With Java Web Services: Up and Running, you will: Understand the distinction between SOAP-based and REST-style services Write, deploy, and consume SOAP-based services in core Java Understand the Web Service Definition Language (WSDL) service contract Recognize the structure of a SOAP message Learn how to deliver Java-based RESTful web services and consume commercial RESTful services Know security requirements for SOAP- and REST-based web services Learn how to implement JAX-WS in various application servers Ideal for students as well as experienced programmers, Java Web Services: Up and Running is the concise guide you need to start working with these technologies right away.

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.

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

Developing Java Web Services

Java API for RESTful Web Services

Leverage the power of Spring 5.0, Java SE 9, and Spring Boot 2.0, 2nd Edition

Applying SOAP, WSDL and UDDI to Real-World Projects

Hypermedia and Systems Architecture

Building a RESTful Web Service with Spring

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.

Master core REST concepts and create RESTful web services in JavaAbout 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 ForIf 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 trendsIn DetailRepresentational 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 approachStep-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.

The comprehensive Wrox guide for creating Java web applications for the enterprise This guide shows Java software developers and software engineers how to build complex web applications in an enterprise environment. You'll begin with an introduction to the Java Enterprise Edition and the basic web application, then set up a development application server environment, learn about the tools used in the development process, and explore numerous Java technologies and practices. The book covers industry-standard tools and technologies, specific technologies, and underlying programming concepts. Java is an essential programming language used worldwide for both Android app development and enterprise-level corporate solutions As a step-by-step guide or a general reference, this book provides an all-in-one Java development solution Explains Java Enterprise Edition 7 and the basic web application, how to set up a development application server environment, which tools are needed during the development process, and how to apply various Java technologies Covers new language features in Java 8, such as Lambda Expressions, and the new Java 8 Date & Time API introduced as part of JSR 310, replacing the legacy Date and Calendar APIs Demonstrates the new, fully-duplex WebSocket web connection technology and its support in Java EE 7, allowing the reader to create rich, truly interactive web applications that can push updated data to the client automatically Instructs the reader in the configuration and use of Log4j 2.0, Spring Framework 4 (including Spring Web MVC), Hibernate Validator, RabbitMQ, Hibernate ORM, Spring Data, Hibernate Search, and Spring Security Covers application logging, JSR 340 Servlet API 3.1, JSR 245 JavaServer Pages (JSP) 2.3 (including custom tag libraries), JSR 341 Expression Language 3.0, JSR 356 WebSocket API 1.0, JSR 303/349 Bean Validation 1.1, JSR 317/338 Java Persistence API (JPA) 2.1, full-text searching with JPA, RESTful and SOAP web services, Advanced Message Queuing Protocol (AMQP), and OAuth Professional Java for Web Applications is the complete Wrox guide for software developers who are familiar with Java and who are ready to build high-level enterprise Java web applications.

The core idea behind Real World Web Services is simple: after years of hype, what are the major players really doing with web services? Standard bodies may wrangle and platform vendors may preach, but at the end of the day what are the technologies that are actually in use, and how can developers incorporate them into their own applications? Those are the answers Real World Web Services delivers. It's a field guide to the wild and wooly world of non-trivial deployed web services.The heart of the book is a series of projects, demonstrating the use and integration of Google, Amazon, eBay, PayPal, FedEx, and many more web services. Some of these vendors have been extremely successful with their web service deployments: for example, eBay processes over a billion web service requests a month!The author focuses on building 8 fully worked out example web applications that incorporate the best web services available today. The book thoroughly documents how to add functionality like automating listings for auctions, dynamically calculating shipping fees, automatically sending faxes to your suppliers, using an aggregator to pull data from multiple news and web service feeds into a single format or monitoring the latest weblog discussions and Google searches to keep web site visitors on top of topics of interest-by integrating APIs from popular websites most people are already familiar with.For each example application, the author provides a thorough overview, architecture, and full working code examples.This book doesn't engage in an intellectual debate as to the correctness of web services on a theological level. Instead, it focuses on the practical, real world usage of web services as the latest evolution in distributed computing, allowing for structured communication via Internet protocols. As you'll see, this includes everything from sending HTTP GET commands to retrieving an XML document through the use of SOAP and various vendor SDKs.

Distributed Applications with XML-RPC, SOAP, UDDI & WSDL

RESTful Java Web Services

Up and Running

Building Web Services with Java

SOA Using Java Web Services

Spring REST

Design scalable and robust RESTful web services with JAX-RS and Jersey extension APIsAbout 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 JavaWho This Book Is ForIf 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 trendsIn DetailREST (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.

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.

As a developer new to Web Services, how do you make sense of this emerging framework so you can start writing your own services today? This concise book gives programmers both a concrete introduction and a handy reference to XML web services, first by explaining the foundations of this new breed of distributed services, and then demonstrating quick ways to create services with open-source Java tools.Web Services make it possible for diverse applications to discover each other and exchange data seamlessly via the Internet. For instance, programs written in Java and running on Solaris can find and call code written in C# that run on Windows XP, or programs written in Perl that run on Linux, without any concern about the details of how that service is implemented. A common set of Web Services is at the core of Microsoft's new .NET strategy, Sun Microsystems's Sun One Platform, and the W3C's XML Protocol Activity Group.In this book, author Ethan Cerami explores four key emerging technologies: Remote Procedure Calls (XML-RPC) SOAP - The foundation for most commercial Web Services development Universal Discovery, Description and Integration (UDDI) Web Services Description Language (WSDL) For each of these topics, Web Services Essentials provides a quick overview, Java tutorials with sample code, samples of the XML documents underlying the service, and explanations of freely-available Java APIs. Cerami also includes a guide to the current state of Web Services, pointers to open-source tools and a comprehensive glossary of terms.If you want to break through the Web Services hype and find useful information on these evolving technologies, look no further than Web Services Essentials.

Provides both a tutorial and a quick reference guide to the Java APIs for Web services development, with a study of the different types of Web services, an explanation of JWSDP, and other documentation and supplementary material.

RESTful Java with JAX-RS

Java Web Services

Java Web Services: Up and Running

Build Web Applications with Java

J2EE Web Services

Java Web Services Architecture

Written by industry thought leaders, Java Web Services Architecture is a no-nonsense guide to web services technologies including SOAP, WSDL, UDDI and the JAX APIs. This book is useful for systems architects and provides many of the practical considerations for implementing web services including authorization, encryption, transactions, JAX APIs, transactions, security, and more.

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 covers the 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 integrate your application. You will come away with all the skills to build sophisticated REST applications using Spring technologies.

Java Web Services: Up and RunningUp and Running"O'Reilly Media, Inc."

While the REST design philosophy has captured the imagination of web and enterprise developers alike, using this approach to develop real web services is no picnic. This cookbook includes more than 100 recipes to help you take advantage of REST, HTTP, and the infrastructure of the Web. You'll learn ways to design RESTful web services for scalability, reliability, and security goals, no matter what programming language and development framework you use. Each recipe includes one or two problem statements, with easy-to-follow, step-by-step instructions for solving them, as well as examples using HTTP requests and responses, and XML, JSON, and Atom snippets. You'll also get a look at the trade-offs that come with each solution. Learn how to design resources to meet various application scenarios Successfully design representations and URIs Implement the hypertext constraint using links and link headers Understand when and how to use Atom and AtomPub Know what and what not to do to support caching Learn how to design RESTful web services involving copying, merging, transactions, batch processing, and partial updates Secure web services and support OAuth

A pragmatic guide to designing and building RESTful APIs using Java

Building Distributed Applications

RESTful Web APIs

Java EE 7 Essentials

Professional Java for Web Applications

Enterprise Developer Handbook

Quick and painless Java programming with expert multimedia instruction Java Programming 24-Hour Trainer, 2nd Edition is your complete beginner's guide to the Java programming language, with easy-to-follow lessons and supplemental exercises that help you get up and running quickly. Step-by-step instruction walks you through the basics of object-oriented programming, syntax, interfaces, and more, before building upon your skills to develop games, web apps, networks, and automations. This second edition has been updated to align with Java SE 8 and Java EE 7, and includes new information on GUI basics, lambda expressions, streaming API, WebSockets, and Gradle. Even if you have no programming experience at all, the more than six hours of Java programming screencasts will demonstrate major concepts and procedures in a way that facilitates learning and promotes a better understanding of the development process. This is your quick and painless guide to mastering Java, whether you're starting from scratch or just looking to expand your skill set. Master the building blocks that go into any Java project Make writing code easier with the Eclipse tools Learn to connect Java applications to databases Design and build graphical user interfaces and web applications Learn to develop GUIs with JavaFX If you want to start programming quickly, Java Programming 24-Hour Trainer, 2nd Edition is your ideal solution.

For many Java developers, web services appeared to come out of nowhere. Its advantages are clear: web services are platform-independent (like Java itself), language-agnostic (a clear advantage over Java RMI), can easily be tunneled through firewalls (an obvious benefit to anyone who has dealt with modern enterprise networks), object-oriented (we all know about that), and tends to be loosely coupled (allowing more flexible application development). But these advantages have been obscured by a cloud of hype and a proliferation of jargon that are difficult to penetrate. What are SOAP, UDDI, WSDL, and JAXM? To say nothing of JAXR, tModels, category bags, WSFL, and other friends? And assuming that you understand what they are, how do you do anything with them? Do they live up to their promises? Are they really the future of network computing, or a dead end? Java Web Services gives the experienced Java developer a way into the Web Services world. It helps you to understand what's going on, what the technologies mean and how they relate, and shows Java developers how to put them to use to solve real problems. You'll learn what's real and what isn't; what the technologies are really supposed to do, and how they do it. Java Web Services shows you how to use SOAP to perform remote method calls and message passing; how to use WSDL to describe the interface to a web service or understand the interface of someone else's service; and how to use UDDI to advertise (publish) and look up services in each local or global registry. Java Web Services also discusses security issues, interoperability issues, integration with other Java enterprise technologies like EJB; the work being done on the JAXM and JAX-RPC packages, and integration with Microsoft's .NET services. The web services picture is still taking shape; there are many platforms and APIs to consider, and many conflicting claims from different marketing groups. And although web services are inherently language-independent, the fit between the fundamental principles on which Java and web services are based means that Java will almost certainly be the predominant language for web services development. If you're a Java developer and want to climb on the web services bandwagon, or if you only want to kick the tires and find out what web services has to offer, you will find this book indispensable.

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

Provides an overview of XML and the .NET framework, covers Web services and .NET application development, and explores how to integrate .NET and Java applications through Web services.

Making Sense of XML, SOAP, WSDL, and UDDI

Integrating eBay, Google, Amazon, FedEx and more

Designing and Developing Distributed Web Services

RESTful Web Services

Java Programming

Advanced Topics

Learn how to design and develop distributed web services in Java using RESTful architectural principals and the JAX-RS specification in Java EE 6. With this hands-on reference, you'll focus on implementation rather than theory, and discover why the RESTful method is far better than technologies like CORBA and SOAP. It's easy to get started with services based on the REST architecture. RESTful Java with JAX-RS includes a technical guide that explains REST and JAX-RS, how they work, and when to use them. With the RESTEasy workbook that follows, you get step-by-step instructions for installing, configuring, and running several working JAX-RS examples using the JBoss RESTEasy implementation of JAX-RS. Work on the design of a distributed RESTful interface, and develop it in Java as a JAX-RS service Dispatch HTTP requests in JAX-RS, and learn how to extract information from them Deploy your web services within Java Enterprise Edition using the Application class, Default Component Model, EJB Integration, Spring Integration, and JPA Discover several options for securing your web services Learn how to implement RESTful design patterns using JAX-RS Write RESTful clients in Java using libraries and frameworks such as java.net.URL, Apache HTTP Client, and RESTEasy Proxy 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.

Expert Solutions and State-of-the-Art Code Examples SOA Using Java™ Web Services is a hands-on guide to implementing Web services and Service Oriented Architecture (SOA) with today's Java EE 5 and Java SE 6 platforms. Author Mark Hansen presents in explicit detail the information that enterprise developers and architects need to succeed, from best-practice design techniques to state-of-the-art code samples. Hansen covers creating, deploying, and invoking Web services that can be composed into loosely coupled SOA applications. He begins by reviewing the "big picture," including the challenges of Java-based SOA development and the limitations of traditional approaches. Next, he systematically introduces the latest Java Web Services (JWS) APIs and walks through creating Web services that integrate into a comprehensive SOA solution. Finally, he shows how application frameworks based on JWS can streamline the entire SOA development process and introduces one such framework: SOA-J. The book introduces practical techniques for managing the complexity of Web services and SOA, including best-practice design examples Offers hard-won insights into building effective SOA applications with Java Web Services Illuminates recent major JWS improvements—including two full chapters on JAX-WS 2.0 Thoroughly explains SOA integration using WSDL, SOAP, Java/XML mapping, and JAXB 2.0 data binding Walks step by step through packaging and deploying Web services components on Java EE 5 with JSR-181 (WS-Metadata 2.0) and JSR-109 Includes specific code solutions for many development issues, from publishing REST endpoints to consuming SOAP services with WSDL Presents a complete case study using the JWS APIs, together with an Ajax front end, to build a SOA application integrating Amazon, Yahoo Shopping, and eBay Contains hundreds of code samples—all tested with the GlassFish Java EE 5 reference implementation—that are downloadable from the companion Web site, <http://soabook.com>. Foreword Preface Acknowledgments About the Author Chapter 1: Service-Oriented Architecture with Java Web Services Chapter 2: An Overview of Java Web Services Chapter 3: Basic SOA Using REST Chapter 4: The Role of WSDL, SOAP, and Java/XML Mapping in SOA Chapter 5: The JAXB 2.0 Data Binding Chapter 6: JAX-WS-Client-Side Development Chapter 7: JAX-WS 2.0—Server-Side Development Chapter 8: Packaging and Deployment of SOA Components (JSR-181 and JSR-109) Chapter 9: SOAShopper: Integrating eBay, Amazon, and Yahoo! Shopping Chapter 10: Ajax and Java Web Services Chapter 11: WSDL-Centric Java Web Services with SOA-J Appendix A: Java, XML, and Web Services Standards Used in This Book Appendix B: Software Configuration Guide Appendix C: Namespace Prefixes Glossary References Index

AngularJS is the leading framework for building dynamic JavaScript applications that take advantage of the capabilities of modern browsers and devices. AngularJS, which is maintained by Google, brings the power of the Model-View-Controller (MVC) pattern to the client, providing the foundation for complex and rich web apps. It allows you to build applications that are smaller, faster, and with a lighter resource footprint than ever before. Best-selling author Adam Freeman explains how to get the most from AngularJS. He begins by describing the MVC pattern and the many benefits that can be gained... Modern Java Web Development RESTful Java Web Services - Third Edition

Building RESTful Web Services with Java EE 8

Learn Java for Web Development

REST in Practice

RESTful Java with JAX-RS 2.0

Get up to speed on the principal technologies in the Java Platform, Enterprise Edition 7, and learn how the latest version embraces HTML5, focuses on higher productivity, and provides functionality to meet enterprise demands. Written by Arun Gupta, a key member of the Java EE team, this book provides a chapter-by-chapter survey of several Java EE 7 specifications, including WebSockets, Batch Processing, RESTful Web Services, and Java Message Service. You'll also get self-paced instructions for building an end-to-end application with many of the technologies described in the book, which will help you understand the design patterns vital to Java EE development. Understand the key components of the Java EE platform, with easy-to-understand explanations and extensive code samples Examine all the new components that have been added to Java EE 7 platform, such as WebSockets, JSON, Batch, and Concurrency Learn about RESTful Web Services, SOAP XML-based messaging protocol, and Java Message Service Explore Enterprise JavaBeans, Contexts and Dependency Injection, and the Java Persistence API Discover how different components were updated from Java EE 6 to Java EE 7

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.

This book is primarily intended for beginners who wants to learn various aspects of software engineering and building web applications using Java programming language. There are many good books available in the market which independently teach Java, Web Servers, MVC based Frameworks, JSP, PL/SQL, AJAX, JavaScript, CSS, HTML5, UML, SDLC etc. This book covers all of these things plus other aspects together while building an actual web application from inception till completion. This books takes a sample web application and builds it from scratch. Each aspect is explained at micro level with real time examples along with the UML diagrams and code. The fundamental concepts of software engineering and programming web applications are covered with high importance. The objective of this book is to teach building modern day business web applications using java and other related technologies. This book teaches everything in details and in simpler way about building web applications with medium to high level of complexity. This book also covers various software engineering concepts that are required for building software solutions. The book takes you through each and every step of building a web application from scratch. The objective is to teach the reader every single aspect of software engineering required for building web applications from inception till deployment and support. In order to achieve the objective, a real life business requirement is taken and the sample project is built step by step from requirements gathering till deployment and support. The book includes building a light weight MVC based Java framework and building the sample web application using it. During the course architecture, SDLC, UML, security, ajax, various patterns, best practices and other related topics are explained. The best way to learn anything is to get the hands dirty. When a developer starts building any software solution, he/she gets lots of doubts and questions while actually doing it. When the reader architects, designs and does the coding hands on, the reader learns every aspect practically. When the reader builds the working application step by step, the confidence of the reader as a developer is boosted.

Contains everything that a project team needs to know about the development and deployment of Web services with the IBM WebSphere product family. Includes examples for all development artifacts in a format that can be reused in the reader's project. The text combines the authors' own practical experiences with consolidated information on the latest product capabilities in a unique approach that allows the book to be easily accessible to a broad spectrum of readers. Finding a balance between a euphoric/optimistic and down-to earth/realistic view on the subject, this book should sit on every Web service developer's bookshelf.

Architecting and Developing Secure Web Services Using Java

Java Web Services in a Nutshell

Programming Web Services with SOAP

Building RESTful Web Services with Spring 5

Restful Java Web Services Second Edition

Mastering Web Services Security

Find out how to implement the REST architecture to build resilient software in Java with the help of the Spring 5.0 framework. Key Features Follow best practices and explore techniques such as clustering and caching to achieve a reactive, scalable web service. Leverage the Spring Framework to quickly implement RESTful endpoints. Learn to implement a client library for a RESTful web service using the Spring Framework along with the new front end framework. Book Description REST is an architectural style that tackles the challenges of building scalable web services. In today's connected world, APIs have taken a central role on the web. APIs provide the fabric through which systems interact, and REST has become synonymous with APIs.The depth, breadth, and ease of use of Spring makes it one of the most attractive frameworks in the Java ecosystem. Marrying the two technologies is therefore a very natural choice.This book takes you through the design of RESTful web services and leverages the Spring Framework to implement these services. Starting from the basics of the philosophy behind REST, you'll go through the steps of designing and implementing an enterprise-grade RESTful web service. Taking a practical approach, each chapter provides code samples that you can apply to your own circumstances.This second edition brings forth the power of the latest Spring 5.0 release, working with MVC built-in as well as the front end framework. It then goes beyond the use of Spring to explores approaches to tackle resilience, security, and scalability concerns. Improve performance of your applications with the new HTTP 2.0 standards. You'll learn techniques to deal with security in Spring and discover how to implement unit and integration test strategies.Finally, the book ends by walking you through building a Java client for your RESTful web service, along with some scaling techniques using the new Spring Reactive libraries. What you will learn Deep dive into the principles behind REST Expose CRUD operations through RESTful endpoints with the Spring Framework Devise response formats and error handling strategies, offering a consistent and flexible structure to simplify integration for service consumers Follow the best approaches for dealing with a service's evolution while maintaining backward compatibility Understand techniques to secure web services Comply with the best ways to test RESTful web services, including tips for load testing Optimise and scale web services using techniques such as caching and clustering Who this book is for This book is intended for those who want to learn to build RESTful web services with the latest Spring 5.0 Framework. To make best use of the code samples included in the book, you should have a basic knowledge of the Java language. Previous experience with the Spring Framework would also help you get up and running quickly.

The web services architecture provides a new way to think about and implement application-to-application integration and interoperability that makes the development platform irrelevant. Two applications, regardless of operating system, programming language, or any other technical implementation detail, communicate using XML messages over open Internet protocols such as HTTP or SMTP. The Simple Open Access Protocol (SOAP) is a specification that details how to encode that information and has become the messaging protocol of choice for Web services.Programming Web Services with SOAP is a detailed guide to using SOAP and other leading web services standards--WSDL (Web Service Description Language), and UDDI (Universal Description, Discovery, and Integration protocol). You'll learn the concepts of the web services architecture and get practical advice on building and deploying web services in the enterprise.This authoritative book decodes the standards, explaining the concepts and implementation in a clear, concise style. You'll also learn about the major toolkits for building and deploying web services. Examples in Java, Perl, C#, and Visual Basic illustrate the principles. Significant applications developed using Java and Perl on the Apache Tomcat web platform address real issues such as security, debugging, and interoperability.Covered topic areas include: The Web Services Architecture SOAP envelopes, headers, and encodings WSDL and UDDI Writing web services with Apache SOAP and Java Writing web services with Perl's SOAP::Lite Peer-to-peer (P2P) web services Enterprise issues such as authentication, security, and identity Up-and-coming standards projects for web services Programming Web Services with SOAP provides you with all the information on the standards, protocols, and toolkits you'll need to integrate information services with SOAP. You'll find a solid core of information that will help you develop individual Web services or discover new ways to integrate core business processes across an enterprise.

Restlet in Action

Developing RESTful web APIs in Java

Master Core REST Concepts and Create RESTful Web Services in Java

Java Web Services Programming

24-Hour Trainer