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# Master Java Web Services And Rest Api With Spring Boot Udemy

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*Master Java  
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edited by*

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**PAMELA CARLA**

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## **JAVA WEB SERVICES PROGRAMMING**

Packt Publishing Ltd  
A step-by-step guide  
that will help you

design, develop, scale, and deploy RESTful APIs with TypeScript 3 and Node.js Key Features Gain in-depth knowledge of OpenAPI and Swagger to build scalable web services Explore a variety of test frameworks and test runners such as Stryker, Mocha, and Chai Create a pipeline by Dockerizing your environment using Travis CI, Google Cloud Platform, and GitHub Book Description In the world of web development, leveraging data is the key to developing comprehensive applications, and RESTful APIs help you to achieve this systematically. This book will guide you in designing and developing web services with the power of TypeScript 3

and Node.js. You'll design REST APIs using best practices for request handling, validation, authentication, and authorization. You'll also understand how to enhance the capabilities of your APIs with ODMs, databases, models and views, as well as asynchronous callbacks. This book will guide you in securing your environment by testing your services and initiating test automation with different testing approaches. Furthermore, you'll get to grips with developing secure, testable, and more efficient code, and be able to scale and deploy TypeScript 3 and Node.js-powered RESTful APIs on cloud

platforms such as the Google Cloud Platform. Finally, the book will help you explore microservices and give you an overview of what GraphQL can allow you to do. By the end of this book, you will be able to use RESTful web services to create your APIs for mobile and web apps and other platforms. What you will learn

- Explore various methods to plan your services in a scalable way
- Understand how to handle different request types and the response status code
- Get to grips with securing web services
- Delve into error handling and logging your web services for improved debugging
- Uncover the microservices architecture and GraphQL
- Create

automated CI/CD pipelines for release and deployment strategies

Who this book is for

If you're a developer who has a basic understanding of REST concepts and want to learn how to design and develop RESTful APIs, this book is for you. Prior knowledge of TypeScript will help you make the most out of this book.

*Up and Running* John Wiley & Sons

Spring REST is a practical guide for designing and developing RESTful APIs using the Spring Framework. This book walks you through the process of designing and building a REST application while taking a deep dive into design principles and best practices for versioning, security,

documentation, error handling, paging, and sorting. This book provides a brief introduction to REST, HTTP, and web infrastructure. You will learn about several Spring projects such as Spring Boot, Spring MVC, Spring Data JPA, and Spring Security and the role they play in simplifying REST application development. You will learn how to build clients that consume REST services. Finally, you will learn how to use the Spring MVC test framework to unit test and integration test your REST API. After reading this book, you will come away with all the skills to build sophisticated REST applications using Spring technologies.

## **BUILDING RESTFUL WEB SERVICES WITH SPRING 5**

Apress

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.

*Java Web Services: Up and Running* Sams Publishing

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.

### Java EE 7 Essentials

Elsevier

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.

### RESTful Java Web Services

Addison-Wesley Professional 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.

## **DEVELOPING JAVA WEB SERVICES**

John Wiley & Sons  
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.

## **CREATE MODERN RESTFUL WEB SERVICES WITH THE JAVA EE 8 API**

Packt Publishing Ltd  
A hands-on guide to

building an enterprise-grade, scalable RESTful web service using the Spring Framework  
About This Book Follow best practices and explore techniques such as clustering and caching to achieve a scalable web service  
Leverage the Spring Framework to quickly implement RESTful endpoints  
Learn to implement a client library for a RESTful web service using the Spring Framework  
Who This Book Is For This book is intended for those who want to learn to build RESTful web services with the Spring Framework. To make best use of the code samples included in the book, you should have a basic knowledge of the Java language. Previous experience with the Spring Framework

would also help you get up and running quickly. What You Will Learn Deep dive into the principles behind REST Expose CRUD operations through RESTful endpoints with the Spring Framework Devise response formats and error handling strategies, offering a consistent and flexible structure to simplify integration for service consumers Follow the best approaches for dealing with a service's evolution while maintaining backward compatibility Understand techniques to secure web services Comply with the best ways to test RESTful web services, including tips for load testing Optimise and scale web services using techniques such as caching and clustering

In Detail REST is an architectural style that tackles the challenges of building scalable web services. In today's connected world, APIs have taken a central role on the web. APIs provide the fabric through which systems interact, and REST has become synonymous with APIs. The depth, breadth, and ease of use of Spring makes it one of the most attractive frameworks in the Java ecosystem. Marrying the two technologies is therefore a very natural choice. This book takes you through the design of RESTful web services and leverages the Spring Framework to implement these services. Starting from the basics of the philosophy behind REST, you'll go through

the steps of designing and implementing an enterprise-grade RESTful web service. Taking a practical approach, each chapter provides code samples that you can apply to your own circumstances. This book goes beyond the use of Spring and explores approaches to tackle resilience, security, and scalability concerns. You'll learn techniques to deal with security in Spring and discover how to implement unit and integration test strategies. Finally, the book ends by walking you through building a Java client for your RESTful web service, along with some scaling techniques for it. Style and approach  
This book is a step-by-step, hands-on guide to designing and building

RESTful web services. The book follows the natural cycle of developing these services and includes multiple code samples to help you.  
Leverage the power of Spring 5.0, Java SE 9, and Spring Boot 2.0, 2nd Edition "O'Reilly Media, Inc."  
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 by 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: XML 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.

## WEB SERVICES ESSENTIALS

"O'Reilly Media, Inc."  
"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.  
[Java Web Services](#)  
 Sams Publishing  
 This title provides a comprehensive reference/tutorial for Java programmers who want to tap the synergy of XML and Java in key Web development tasks. The Java, XML, and Web Services Bible serves as a reference/tutorial for a variety of XML and Java related topics. It covers



areas such as B2B, Instant Messaging, Java and XML Binding, Scalable Vector Graphics, and Application development with XML and JSP. It discusses some commercial and open technologies used with Java and XML such as Cocoon, Batik, and Xerces. *Building Web Services with Java* Packt Publishing Ltd 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 [J2EE Platform Web Services](#) Packt Publishing Ltd "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.

### **Advanced Topics**

Apress

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.

### **MAKING SENSE OF XML, SOAP, WSDL, AND UDDI**

"O'Reilly Media, Inc."  
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  
**Java Web Services Unleashed** Wiley  
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 and the future of Web Services. Covers all the standards, the JAX APIs, transactions,

security, and more.

## **LEARN JAVA FOR WEB DEVELOPMENT**

Simon and Schuster 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 & ndash; author with loyal following! & bull;This is the first book in a series of a books by Richard Monson-Heafel.

## **DESIGNING AND DEVELOPING DISTRIBUTED WEB**

## **SERVICES**

"O'Reilly Media, Inc." 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.

*Java Web Services Architecture* Prentice Hall Professional Web Services is no longer the next new idea, but has very much become part of the technology landscape. The Web Services development model involves creating independent application components and making them available for use across the Internet. Before advancing to high-level Web Services implementation, it is essential to understand the basic concept of Web Services. This book examines what Web Services are and how they can work with Java by introducing specifications, APIs, tools and examining



industry trends.                      Java Web Services: Up  
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