
Restful Web Services Leonard Richardson

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Software Engineering at Google Nguyễn Thành Danh
Looking for Best Practices for RESTful APIs? This book is for you!
Why? Because this book is packed with practical experience on what works best for RESTful API Design. You want to design APIs like a Pro? Use API description languages to both design APIs and develop APIs efficiently. The book introduces the two most common API description languages RAML, OpenAPI, and Swagger. Your company cares about its customers? Learn API product management with a customer-centric design and development approach for APIs. Learn how to manage APIs as a product and how to follow an API-first approach. Build APIs your customers love! You want to manage

the complete API lifecycle? An API development methodology is proposed to guide you through the lifecycle: API inception, API design, API development, API publication, API evolution, and maintenance. You want to build APIs right? This book shows best practices for REST design, such as the correct use of resources, URIs, representations, content types, data formats, parameters, HTTP status codes, and HTTP methods. Your APIs connect to legacy systems? The book shows best practices for connecting APIs to existing backend systems. Your APIs connect to a mesh of microservices? The book shows the principles for designing APIs for scalable, autonomous microservices. You expect lots of traffic on your API? The book shows you how to achieve high performance, availability and maintainability. You want to build APIs that last for decades? We study API versioning, API evolution, backward- and forward-compatibility and show API design patterns for versioning. The API-University Series is a modular series of books on API-related topics. Each book focuses on a particular API topic, so you can select the topics within APIs, which are relevant for you.
Design and Build Great Web APIs "O'Reilly

Media, Inc."

For Woot, Moby, and Beet. —Leonard For
Christopher, Catherine, and Carolyn. —Sam
Rapid Application Development with Mozilla "O'Reilly
Media, Inc."

Building Complete E-commerce/Shopping Cart Application
Key Features Follow best practices and explore techniques
such as clustering and caching to achieve a reactive,
scalable web service Leverage the .NET Framework to
quickly implement RESTful endpoints. Learn to implement a
client library for a RESTful web service using ASP.NET
Core. 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 ASP.NET Core
makes it a breeze for developers to work with for building
robust web APIs. This book takes you through the design of
RESTful web services and leverages the ASP.NET Core
framework to implement these services. This book begins
by introducing you to the basics of the philosophy behind
REST. You'll go through the steps of designing and
implementing an enterprise-grade RESTful web service.
This book takes a practical approach, that you can apply to
your own circumstances. This book brings forth the power
of the latest .NET Core release, working with MVC. Later,
you will learn about the use of the framework to explore

approaches to tackle resilience, security, and scalability
concerns. You will explore the steps to improve the
performance of your applications. You'll also learn
techniques to deal with security in web APIs and discover
how to implement unit and integration test strategies. By the
end of the book, you will have a complete understanding of
Building a client for RESTful web services, along with some
scaling techniques. What you will learn Add basic
authentication to your RESTful API Create a Carts
Controller and Orders Controller to manage and process
Orders Intercept HTTP requests and responses by building
your own middleware Test service calls using Postman and
Advanced REST Client Secure your data/application using
annotations Who this book is for This book is intended for
those who want to learn to build RESTful web services with
the latest .NET Core Framework. To make best use of the
code samples included in the book, you should have a basic
knowledge of C# and .NET Core.

Practical Guide to Building an API Back End with Spring Boot
O'Reilly Media

Build effective RESTful APIs for enterprise with design
patterns and REST framework ' s out-of-the-box capabilities
Key Features Understand advanced topics such as API
gateways, API securities, and cloud Implement patterns
programmatically with easy-to-follow examples Modernize
legacy codebase using API connectors, layers, and
microservices Book Description This book deals with the
Representational State Transfer (REST) paradigm, which is an
architectural style that allows networked devices to
communicate with each other over the internet. With the help

of this book, you ' ll explore the concepts of service-oriented architecture (SOA), event-driven architecture (EDA), and resource-oriented architecture (ROA). This book covers why there is an insistence for high-quality APIs toward enterprise integration. It also covers how to optimize and explore endpoints for microservices with API gateways and touches upon integrated platforms and Hubs for RESTful APIs. You ' ll also understand how application delivery and deployments can be simplified and streamlined in the REST world. The book will help you dig deeper into the distinct contributions of RESTful services for IoT analytics and applications. Besides detailing the API design and development aspects, this book will assist you in designing and developing production-ready, testable, sustainable, and enterprise-grade APIs. By the end of the book, you ' ll be empowered with all that you need to create highly flexible APIs for next-generation RESTful services and applications. What you will learn

Explore RESTful concepts, including URI, HATEOAS, and Code on Demand

Study core patterns like Statelessness, Pagination, and Discoverability

Optimize endpoints for linked microservices with API gateways

Delve into API authentication, authorization, and API security implementations

Work with Service Orchestration to craft composite and process-aware services

Expose RESTful protocol-based APIs for cloud computing

Who this book is for

This book is primarily for web, mobile, and cloud services developers, architects, and consultants who want to build well-designed APIs for creating and sustaining enterprise-class applications. You ' ll also benefit from this book if you want to understand the finer details of RESTful APIs and their design techniques along with some tricks and tips.

[RESTful Web Services](#) O'Reilly Media

Rapid Application Development with Mozilla, part of the Bruce

Perens Open Source Series, is a concise guide for any programmer who wants to learn the versatility and compatibility of Mozilla, an open source toolset with over a thousand objects and components. An additional feature of Rapid Application Development with Mozilla is the NoteTaker Web browser add-on-a sample Mozilla application that is developed throughout the book. Written by Web and XML expert Nigel McFarlane, this book is the perfect addition to the library of any user-interface software engineer, cross-platform developer, or any programmer looking to discover the benefits of rapid application development.

Getting Started with the Internet of Things Packt Publishing Ltd

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.

APIs: A Strategy Guide Packt Publishing Ltd

Web services and Service-Oriented Computing (SOC) have become thriving areas of academic research, joint university/industry research projects, and novel IT products on the market. SOC is the computing paradigm that uses Web services as building blocks for the engineering of composite, distributed applications out of the reusable application logic encapsulated by Web services. Web services could be considered the best-known and most standardized technology in use today for distributed computing over the Internet. Web Services Foundations is the first installment of a two-book collection covering the state-of-the-art of both theoretical and practical aspects of Web services and SOC research. This book specifically focuses on the foundations of Web services and SOC and covers - among others - Web service composition, non-functional aspects of Web services, Web service selection and recommendation, and assisted Web service composition. The editors collect advanced topics in the second book of the collection, Advanced Web Services, (Springer, 2013). Both books together comprise

approximately 1400 pages and are the result of an enormous community effort in this field.

RESTful Web APIs "O'Reilly Media, Inc."

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.

Java Web Services: Up and Running Packt Publishing Ltd

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 client and server applications that meet performance, 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 implementation guidelines, and a discussion of the pros, cons, and 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 implement concurrency control. Deal with advanced use cases involving copying, merging, transactions, batch processing, and partial updates. Secure web services and support OAuth.

Microservice Architecture "O'Reilly Media, Inc."

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.

RESTful API Design Simon and Schuster

"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.

Hands-On RESTful Web Services with ASP.NET Core 3 Createspace Independent Publishing Platform

The book explains the basic concepts associated with the REST architectural style, but the emphasis is on creating PHP code for consuming and creating RESTful services in PHP. There is plenty of example PHP code to illustrate the concepts, with careful explanations of how the code works. This book targets PHP developers who want to build or make use of RESTful web services, or explore the options available to them in PHP. You will need to know the basics of PHP development, but no knowledge of REST is assumed, nor any knowledge of creating web services generally.

RESTful Web Clients Lulu.com

Have you heard about the tremendous success Amazon and Netflix have had by switching to a microservice architecture? Are you wondering how this can benefit your company? Or are you skeptical about how it might work? If you've answered yes to any of these questions, this practical book will benefit you. You'll learn how to take advantage of the microservice architectural style for

building systems, and learn from the experiences of others to adopt and execute this approach most successfully.

Mastering ASP.NET Web API Prentice Hall Professional

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.

REST API Design Rulebook API-University Press

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 Web API Design with Node.js "O'Reilly Media, Inc."

Summary Making Java Groovy is a practical handbook for developers who want to blend Groovy into their day-to-day work with Java. It starts by introducing the key differences between Java and Groovy—and how you can use them to your advantage. Then, it guides you step-by-step through realistic development challenges, from web applications to web services to

desktop applications, and shows how Groovy makes them easier to put into production. About this Book You don't need the full force of Java when you're writing a build script, a simple system utility, or a lightweight web app—but that's where Groovy shines brightest. This elegant JVM-based dynamic language extends and simplifies Java so you can concentrate on the task at hand instead of managing minute details and unnecessary complexity. Making Java Groovy is a practical guide for developers who want to benefit from Groovy in their work with Java. It starts by introducing the key differences between Java and Groovy and how to use them to your advantage. Then, you'll focus on the situations you face every day, like consuming and creating RESTful web services, working with databases, and using the Spring framework. You'll also explore the great Groovy tools for build processes, testing, and deployment and learn how to write Groovy-based domain-specific languages that simplify Java development. Written for developers familiar with Java. No Groovy experience required. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside Easier Java Closures, builders, and metaprogramming Gradle for builds, Spock for testing Groovy frameworks like Grails and Griffon About the Author Ken Kousen is an independent consultant and trainer specializing in Spring, Hibernate, Groovy, and Grails. Table of Contents PART 1: UP TO SPEED WITH GROOVY Why add Groovy to Java? Groovy by example Code-level integration Using Groovy features in Java PART 2: GROOVY TOOLS Build processes Testing Groovy and Java projects PART 3: GROOVY IN THE REAL WORLD The Spring framework Database access RESTful web services Building and testing web applications

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

Starting your first project with Spring Boot can be a bit daunting given the vast options that it provides. This book will guide you step-by-step along the way to be a Spring Boot hero in no time. The book covers: * Setup of your project * Security and user

management for your application * Writing REST endpoints * Connecting with a database from your application * Unit and integration testing for all aspects * Writing documentation for your REST endpoints * Support file upload from your REST API Building Hypermedia APIs with HTML5 and Node Simon and Schuster

This hands-on introductory guide will quickly show how to program embedded devices using the .NET Micro Framework and the Netduino Plus board, and then connect these devices to the Internet using Pachube, a cloud platform for sharing real-time sensor data.

Designing Web APIs "O'Reilly Media, Inc."

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

Fundamentals of Software Architecture "O'Reilly Media, Inc."

A lot of work is required to release an API, but the effort doesn't always pay off. Overplanning before an API matures is a wasted

investment, while underplanning can lead to disaster. This practical guide provides maturity models for individual APIs and multi-API landscapes to help you invest the right human and company resources for the right maturity level at the right time. How do you balance the desire for agility and speed with the need for robust and scalable operations? Four experts from the API Academy show software architects, program directors, and product owners how to maximize the value of their APIs by managing them as products through a continuous life cycle. Learn which API decisions you need to govern and how and where to do so. Design, deploy, and manage APIs using an API-as-a-product (AaaS) approach. Examine ten pillars that form the foundation of API product work. Learn how the continuous improvement model governs changes throughout an API's lifetime. Explore the five stages of a complete API product life cycle. Delve into team roles needed to design, build, and maintain your APIs. Learn how to manage your API landscape—the set of APIs published by your organization.