Restful Web Services Cookbook

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RESTful Web Microservices Cookbook "O'Reilly Media, Inc."
The LNCS series reports state-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R&D community, with numerous individuals, as well as with prestigious organizations and societies, LNCS has grown into the most comprehensive computer science research forum available. The scope of LNCS, including its subseries LNAI and LNBI, spans the whole range of computer science and information technology including interdisciplinary topics in a variety of application fields. In parallel to the printed book, each new volume is published electronically in LNCS Online.
Business Process Model and Notation Springer Nature
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 that involved more than 100 authors, comprising the world's leading experts in this field.
Java SOA Cookbook RESTful Web Services Cookbook
Want to understand a certain PHP programming technique? Or learn how to accomplish a particular task? This cookbook is the first place to look. With more than 350 code-rich recipes revised for PHP 5.4 and 5.5, this third edition provides updated solutions for generating dynamic web content—everything from using basic data types to querying databases, and from calling RESTful APIs to testing and securing your site. Each recipe includes code solutions that you can freely use, along with a discussion of how and why they work. Whether you're an experienced PHP programmer or coming to PHP from another language, this book is an ideal on-the-job resource. You'll find recipes to help you with: Basic data types: strings, numbers, arrays, and dates and times Program building blocks: variables, functions, classes, and objects Web programming: cookies, forms, sessions, and authentication Database access using PDO, SQLite, and other extensions RESTful API clients and servers, including HTTP, XML, and OAuth Key concepts: email, regular expressions, and graphics creation Designing robust applications: security and encryption, error handling, debugging and testing, and performance tuning Files, directories, and PHP's Command Line Interface Libraries and package managers such as Composer and PECL
Restful Web API Patterns and Practices Cookbook "O'Reilly Media, Inc."

"This book covers both theoretical approaches and practical solutions in the processes for aligning enterprise, systems, and software architectures"-- Provided by publisher.

RESTful Web API Patterns and Practices Cookbook "O'Reilly Media, Inc."
- Techniken für sauberen und wartbaren Code sowie für die Reduktion von Komplexität - Software nachhaltig entwickeln und Legacy Code beherrschen - Produktivität steigern durch strukturierte Arbeitsabläufe und effiziente Fehlerbehandlung Dieses Buch ist ein praktischer Leitfaden für das Schreiben von nachhaltigem Programmcode und die Reduktion von Komplexität, die Schuld daran ist, dass Softwareprojekte langfristig außer Kontrolle geraten. Mark Seemann unterstützt seit Jahrzehnten Softwareentwickler-Teams bei der erfolgreichen Umsetzung komplexer Projekte. In diesem Buch begleitet er Sie von den ersten Codezeilen bis zum Deployment und zeigt Ihnen, wie Sie im Entwicklungsprozess effizient bleiben, wenn Sie neue Funktionalitäten implementieren, Optimierungen vornehmen und Fehler beheben. Dabei gibt er Ihnen für alle wichtigen Kernprobleme wertvolle Hinweise, Techniken und Arbeitsabläufe an die Hand: von der Verwendung von Checklisten bis zur Teamarbeit, von Kapselung und API-Design bis zu Unit Testing. Seemann veranschaulicht seine Konzepte anhand von Codebeispielen aus einem vollständigen Beispielprojekt in C#. Der Code ist so geschrieben, dass er gut verständlich für jeden ist, der eine objektorientierte Programmiersprache verwendet, einschließlich Java, C++ und Python. Der gesamte Code steht zur weiteren Erkundung zum Download zur Verfügung. Wenn Sie jemals negative Erfahrungen bei der Umsetzung von Softwareprojekten oder mit schlecht wartbarem Legacy Code gemacht haben, wird dieses Praxisbuch Ihnen helfen, solche Schwierigkeiten ab sofort von Anfang an zu vermeiden. »Mark Seemann ist dafür bekannt, komplexe Konzepte anschaulich und präzise zu erläutern. In diesem Buch kondensiert er seine weitreichende Erfahrung in der Softwareentwicklung zu praktischen, pragmatischen Techniken für nachhaltigen und gut lesbaren Code. Dieses Buch ist ein Must Read für jeden Programmierer.«

ENTERprise Information Systems Springer Science & Business Media
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

RESTful Web Services Cookbook O'Reilly Germany
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

Jakarta EE Cookbook "O'Reilly Media, Inc."
Web 2.0 ist zwar in aller Munde, aber wie macht man damit erfolgreich Geschäfte? In diesem Buch geht es nicht um technische Lösungen. In Die Web 2.0-Strategie geht es darum, die richtige Geschäftsstrategie im Internet für die kleine oder mittelständische Web-Firma zu finden. Amy Shuen analysiert die Informations- und Serviceangebote der Großen der IT-Branche (Facebook, Flickr, Google) und leitet hieraus konkrete Einsichten und Prinzipien für erfolgreiche Web 2.0-Geschäftsstrategien ab. Ob Sie ein Startup gründen wollen, die Internetpräsenz eines mittelständischen Unternehmens ausbauen oder einfach nur verstehen wollen, warum Flickr & Co. so erfolgreich sind, dieses Buch vermittelt kompakt aktuelles Business-Know-how. Netzwerke sind der Schlüssel Alle Beispiele in Die Web 2.0-Strategie handeln in irgendeiner Form von Netzwerkeffekten. Was früher Mundpropaganda oder Klatsch war, kann heute zu riesigem Wachstum führen, ist der Schlüssel, um Communities aufzubauen und regt Website-Besucher dazu an mitzuteilen, was sie denken, sehen und tun. Bei Web 2.0 geht es letztendlich darum, die Vorteile zu nutzen, die die Vernetzung über das Web ermöglicht. Von den erfolgreichen Web 2.0-Projekten lernen Ihre Web 2.0-Tour beginnt bei Flickr. Ein Blick zurück zu den Anfängen zeigt die Herausforderungen, denen sich Flickr stellen musste, um sich mit seiner Geschäftslogik erfolgreich zu positionieren. Als Nächstes sehen wir uns Google an und untersuchen die Art und Weise, wie es mit dem Long-Tail-Prinzip enorme Umsätze erwirtschaftete. Amazon wiederum fordert seine Kunden auf, Produkte zu bewerten und so andere Kunden bei ihrer Kaufentscheidung zu unterstützen: Mehrwert durch einen Community-Effekt, den selbst ein gut gemachter Katalog nicht bieten kann. Für viele Unternehmen interessant Sie müssen nicht für ein Startup oder gar für ein Web 2.0-Unternehmen arbeiten, um diesen Web 2.0-Leitfaden optimal für Ihre Geschäftsaktivitäten zu nutzen. Die im Buch ausführlich vorgestellten Erfolgsprojekte werden so klug und umfassend analysiert, dass die dahinter stehenden Business-Strategien deutlich werden. Und diese machen auch Ihr Unternehmen erfolgreich.

Java 11 Cookbook Addison-Wesley Professional
This three-volume-set (CCIS 219, CCIS 220, and CCIS 221) constitutes the refereed proceedings of the International Conference on ENTERprise Information Systems, CENTERIS 2011, held in Vilamoura, Portugal, in September 2011. The approx. 120 revised full papers presented in the three

volumes were carefully reviewed and selected from 180 submissions. The papers are organized in topical sections on knowledge society, EIS adoption and design, EIS implementation and impact, EIS applications, social aspects and IS in education, IT/IS management, telemedicine and imaging technologies, healthcare information management, medical records and business processes, decision support systems and business intelligence in health and social care contexts, architectures and emerging technologies in healthcare organizations, as well as m-health.

Fast and Scalable Cloud Data Management Packt Publishing Ltd
Proven Patterns for Designing Evolvable High-Quality APIs--For Any Domain, Technology, or Platform APIs enable breakthrough innovation and digital transformation in organizations and ecosystems of all kinds. To create user-friendly, reliable and well-performing APIs, architects, designers, and developers need expert design guidance. This practical guide cuts through the complexity of API conversations and their message contents, introducing comprehensive guidelines and heuristics for designing APIs sustainably and specifying them clearly, for whatever technologies or platforms you use. In Patterns for API Design: Simplifying Integration with Loosely Coupled Message Exchanges, five expert architects and developers cover the entire API lifecycle, from launching projects and establishing goals through defining requirements, elaborating designs, planning evolution, and creating useful documentation. They crystallize the collective knowledge of many practitioners into 44 API design patterns, consistently explained with context, pros and cons, conceptual solutions, and concrete examples. To make their pattern language accessible, they present a domain model, a running case study, decision narratives with pattern selection options and criteria, and walkthroughs of real-world projects applying the patterns in two different industries. Identify and overcome API design challenges with patterns Size your endpoint types and operations adequately Design request and response messages and their representations Refine your message design for quality Plan to evolve your APIs Document and communicate your API contracts Combine patterns to solve real-world problems and make the right tradeoffs "This book provides a healthy mix of theory and practice, containing numerous nuggets of deep advice but never losing the big picture . . . grounded in real-world experience and documented with academic rigor applied and practitioner community feedback incorporated. I am confident that [it] will serve the community well, today and tomorrow." --Prof. Dr. Dr. h. c. Frank Leymann, Managing Director, Institute of Architecture of Application Systems, University of Stuttgart
Computational Intelligence and Decision Making "O'Reilly Media, Inc."
86 recipes on how to build fast, scalable, and powerful web services and applications with Go Key Features Become proficient in RESTful web services Build scalable, high-performant web applications in Go Get acquainted with Go frameworks for web development Book Description Go is an open source programming language that is designed to scale and support concurrency at the language level. This gives you the liberty to write large concurrent web applications with ease. From creating web application to deploying them on Amazon Cloud Services, this book will be your one-stop guide to learn web development in Go. The Go Web Development Cookbook teaches you how to create REST services, write microservices, and deploy Go Docker containers. Whether you are new to programming or a professional developer, this book will help get you up to speed with web development in Go. We will focus on writing modular code in Go; in-depth informative examples build the base, one step at a time. You will learn how to create a server, work with static files, SQL, NoSQL databases, and Beego. You will also learn how to create and secure REST services, and create and deploy Go web application and Go Docker containers on Amazon Cloud Services. By the end of the book, you will be able to apply the skills you've gained in Go to create and explore web applications in any domain. What you will learn Create a simple HTTP and TCP web server and understand how it works Explore record in a MySQL and MongoDB database Write and consume RESTful web service in Go Invent microservices in Go using Micro – a microservice toolkit Create and Deploy the Beego application with Nginx Deploy Go web application and Docker containers on an AWS EC2 instance Who this book is for This book is for Go developers interested in learning how to use Go to build powerful web applications. A background in web development is expected.

Die Web 2.0-Strategie O'Reilly Media
This volume provides an overview and an understanding of REST (Representational State Transfer). Discussing the constraints of REST the book focuses on REST as a type of web architectural style. The focus is on applying REST beyond Web applications (i.e., in enterprise environments), and in reusing established and well-understood design patterns when doing so. The reader will be able to understand how RESTful systems can be designed and deployed, and what the results are in terms of benefits and challenges encountered in the process. Since REST is relatively new as an approach for designing Web Services, the more advanced part of the book collects a number of challenges to some of the assumptions and constraints of REST, and looks at current research work on how REST can be extended and applied to scenarios that often are considered not to be a good match for REST. This work will help readers to reach a deeper understanding of REST on a practical as well as on an advanced level.

Web-Services mit REST O'Reilly Germany
In today's modernized environment, a growing number of software companies are changing their traditional engineering approaches in response to the rapid development of computing technologies. As these businesses adopt modern software engineering practices, they face various challenges including the integration of current methodologies and contemporary design models and the refactoring of existing systems using advanced approaches. Applications and Approaches to Object-Oriented Software Design: Emerging Research and Opportunities is a pivotal reference source that provides vital research on the development of modern software practices that impact maintenance, design, and developer productivity. While highlighting topics such as augmented reality, distributed computing, and big data processing, this publication explores the current infrastructure of software systems as well as future advancements. This book is ideally designed for software engineers, IT specialists, data scientists, business professionals, developers, researchers, students, and academicians seeking current research on contemporary software engineering methods.

Go Web Development Cookbook IGI Global
An enterprise Java developer's guide to learning JAX-RS, context and dependency injection, JavaServer Faces (JSF), and microservices with Eclipse MicroProfile using the latest features of Jakarta EE Key FeaturesExplore Jakarta EE's latest features and API specifications and discover their benefitsBuild and deploy microservices using Jakarta EE 8 and Eclipse MicroProfileBuild robust RESTful web services for various enterprise scenarios using the JAX-RS, JSON-P, and JSON-B APIsBook Description Jakarta EE is widely used around the world for developing enterprise applications for a variety of domains. With this book, Java professionals will be able to enhance their skills to deliver powerful enterprise solutions using practical

recipes. This second edition of the Jakarta EE Cookbook takes you through the improvements introduced in its latest version and helps you get hands-on with its significant APIs and features used for server-side development. You'll use Jakarta EE for creating RESTful web services and web applications with the JAX-RS, JSON-P, and JSON-B APIs and learn how you can improve the security of your enterprise solutions. Not only will you learn how to use the most important servers on the market, but you'll also learn to make the best of what they have to offer for your project. From an architectural point of view, this Jakarta book covers microservices, cloud computing, and containers. It allows you to explore all the tools for building reactive applications using Jakarta EE and core Java features such as lambdas. Finally, you'll discover how professionals can improve their projects by engaging with and contributing to the community. By the end of this book, you'll have become proficient in developing and deploying enterprise applications using Jakarta EE. What you will learnWork with Jakarta EE's most commonly used APIs and features for server-side developmentEnable fast and secure communication in web applications with the help of HTTP2Build enterprise applications with reusable componentsBreak down monoliths into microservices using Jakarta EE and Eclipse MicroProfileImprove your enterprise applications with multithreading and concurrencyRun applications in the cloud with the help of containersGet to grips with continuous delivery and deployment for shipping your applications effectivelyWho this book is for This book is for Java EE developers who want to build enterprise applications or update their legacy apps with Jakarta EE's latest features and specifications. Some experience of working with Java EE and knowledge of web and cloud computing will assist with understanding the concepts covered in this book.

Microservices (mitp Professional) "O'Reilly Media, Inc."
RESTful Web Services Cookbook"O'Reilly Media, Inc."
Mobile Services Industries, Technologies, and Applications in the Global Economy Springer
Powerful web-based REST and hypermedia-style APIs are becoming more common every day, but instead of applying the same techniques and patterns to hypermedia clients, many developers rely on custom client code. With this practical guide, you'll learn how to move from one-off implementations to general-purpose client apps that are stable, flexible, and reusable. Author Mike Amundsen provides extensive background, easy-to-follow examples, illustrative dialogues, and clear recommendations for building effective hypermedia-based client applications. Along the way, you'll learn how to harness many of the basic principles that underpin the Web. Convert HTML-only web apps into a JSON API service Overcome the challenges of maintaining plain JSON-style client apps Decouple the output format from the internal object model with the representor pattern Explore client apps built with HAL—Hypertext Application Language Tackle reusable clients with the Request, Parse, Wait Loop (RPW) pattern Learn the pros and cons of building client apps with the Siren content type Deal with API versioning by adopting a change-over-time aesthetic Compare how JSON, HAL, Siren, and Collection+JSON clients handle the Objects/Addresses/Actions Challenge Craft a single client application that can consume multiple services

Web Services Foundations GITO mbH Verlag
This book provides a general overview and original analysis of new developments and applications in several areas of Computational Intelligence and Information Systems. Computational Intelligence has become an important tool for engineers to develop and analyze novel techniques to solve problems in basic sciences such as physics, chemistry, biology, engineering, environment and social sciences. The material contained in this book addresses the foundations and applications of Artificial Intelligence and Decision Support Systems, Complex and Biological Inspired Systems, Simulation and Evolution of Real and Artificial Life Forms, Intelligent Models and Control Systems, Knowledge and Learning Technologies, Web Semantics and Ontologies, Intelligent Tutoring Systems, Intelligent Power Systems, Self-Organized and Distributed Systems, Intelligent Manufacturing Systems and Affective Computing. The contributions have all been written by international experts, who provide current views on the topics discussed and present recent, original insights from their own experience in these fields.

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Restful Web Clients Packt Publishing Ltd
Git wurde von keinem Geringeren als Linus Torvalds ins Leben gerufen. Sein Ziel: die Zusammenarbeit der in aller Welt verteilten Entwickler des Linux-Kernels zu optimieren. Mittlerweile hat das enorm schnelle und flexible System eine grosse Fangemeinde gewonnen. Viele Entwickler ziehen es zentralisierten Systemen vor, und zahlreiche bekannte Entwicklungsprojekte sind schon auf Git umgestiegen. Verstandliche Einfuhrung: Wer Git einsetzen und dabei grosstmoglichen Nutzen aus seinen vielseitigen Funktionen ziehen mochte, findet in diesem Buch einen idealen Begleiter. Versionskontrolle mit Git fuhrt grundlich und gut verstandlich in die leistungsstarke Open Source-Software ein und demonstriert ihre vielfaltigen Einsatzmoglichkeiten. Auf dieser Basis kann der Leser Git schon nach kurzer Zeit produktiv nutzen und optimal auf die Besonderheiten seines Projekts abstimmen. Insider-Tipps aus erster Hand: Jon Loeliger, der selbst zum Git-Entwicklerteam gehort, lasst den Leser tief ins Innere des Systems blicken, so dass er ein umfassendes Verstandnis seiner internen Datenstrukturen und Aktionen erlangt. Neben alltaglicheren Szenarios behandelt Loeliger auch fortgeschrittene Themen wie die Verwendung von Hooks zum Automatisieren von Schritten, das Kombinieren von mehreren Projekten und Repositories zu einem Superprojekt sowie die Arbeit mit Subversion-Repositories in Git-Projekten."

Web Engineering "O'Reilly Media, Inc."
Powerful web-based REST and hypermedia-style APIs are becoming more common every day, but instead of applying the same techniques and patterns to hypermedia clients, many developers rely on custom client code. With this practical guide, you'll learn how to move from one-off implementations to general-purpose client apps that are stable, flexible, and reusable. Author Mike Amundsen provides extensive background, easy-to-follow examples, illustrative dialogues, and clear recommendations for building effective hypermedia-based client applications. Along the way, you'll learn how to harness many of the basic principles that underpin the Web. Convert HTML-only web apps into a JSON API service Overcome the challenges of maintaining plain JSON-style client apps Decouple the output format from the internal object model with the representor pattern Explore client apps built with HAL--Hypertext Application Language Tackle reusable clients with the Request, Parse, Wait Loop (RPW) pattern Learn the pros and cons of building client apps with the Siren content type Deal with API versioning by adopting a change-over-time aesthetic Compare how JSON, HAL, Siren, and Collection+JSON clients handle the Objects/Addresses/Actions Challenge Craft a single client application that can consume multiple services

From Government to E-Governance: Public Administration in the Digital Age Springer Science & Business Media
The unprecedented scale at which data is both produced and consumed today has generated a large demand for scalable data management solutions facilitating fast access from all over the world. As one consequence, a plethora of non-relational, distributed NoSQL database systems have risen in recent years and today's data management system landscape has thus become somewhat hard to overlook. As another consequence, complex polyglot designs and elaborate schemes for data distribution and delivery have become the norm for building applications that connect users and organizations across the globe – but choosing the right combination of systems for a given use case has become increasingly difficult as well. To help practitioners stay on top of that challenge, this book presents a comprehensive overview and classification of the current system landscape in cloud data management as well as a survey of the state-of-the-art approaches for efficient data distribution and delivery to end-user devices. The topics covered thus range from NoSQL storage systems and polyglot architectures (backend) over distributed transactions and Web caching (network) to data access and rendering performance in the client (end-user). By distinguishing popular data management systems by data model, consistency guarantees, and other dimensions of interest, this book provides an abstract framework for reasoning about the overall design space and the individual positions claimed by each of the systems therein. Building on this classification, this book further presents an application-driven decision guidance tool that breaks the process of choosing a set of viable system candidates for a given application scenario down into a straightforward decision tree.