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Restful Web Services Cookbook Solutions For Improving Scalability And Simplicity

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Restful Web Services Cookbook Solutions For Improving Scalability And Simplicity:

RESTful Web Services Cookbook Subbu Allamaraju, 2010-02-22 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

Fast and Scalable Cloud Data Management Felix Gessert, Wolfram Wingerath, Norbert Ritter, 2020-05-15 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

[Applications and Approaches to Object-Oriented Software Design: Emerging Research and Opportunities](#) Altan, Zeynep, 2019-11-29 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

ENTERprise Information Systems Maria Manuela Cruz-Cunha,Joao Varajao,Philip Powell,Ricardo Martinho,2011-09-21 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

Mobile Services Industries, Technologies, and Applications in the Global Economy Lee, In,2012-08-31 As business paradigms shift from desktop centric environments to data centric mobile environments mobile services create numerous new business opportunities At the same time these advances may also challenge many of the basic premises of existing business models Mobile Services Industries Technologies and Applications in the Global Economy fosters a scientific understanding of mobile services provides a timely publication of current research efforts and forecasts future trends in the mobile services industry and its important role in the world economy Written for academics researchers government policymakers and corporate managers this comprehensive volume will outline the great potential for new business models and applications in mobile commerce

From Government to E-Governance: Public Administration in the Digital Age Islam, Muhammad Muinul,Ehsan, Mohammad,2012-07-31 From Government to E Governance Public Administration in the Digital Age will aim to provide relevant theoretical frameworks past experiences and the latest empirical research findings in the area of public administration systems that existed in earlier civilizations as well as e governance introduced modern times The target audience of this book will be composed of academics students civil servants researchers and policy advisors teaching and studying public administration and public policy thinking to bring administrative reforms and working in government

Intelligent Web Data Management: Software Architectures and

Emerging Technologies Kun Ma,Ajith Abraham,Bo Yang,Runyuan Sun,2016-02-19 This book presents some of the emerging techniques and technologies used to handle Web data management Authors present novel software architectures and emerging technologies and then validate using experimental data and real world applications The contents of this book are focused on four popular thematic categories of intelligent Web data management cloud computing social networking monitoring and literature management The Volume will be a valuable reference to researchers students and practitioners in the field of Web data management cloud computing social networks using advanced intelligence tools Resource-Oriented Architecture Patterns for Webs of Data Brian Sletten,2013-04-01 The surge of interest in the REpresentational State Transfer REST architectural style the Semantic Web and Linked Data has resulted in the development of innovative flexible and powerful systems that embrace one or more of these compatible technologies However most developers architects Information Technology managers and platform owners have only been exposed to the basics of resource oriented architectures This book is an attempt to catalog and elucidate several reusable solutions that have been seen in the wild in the now increasingly familiar patterns book style These are not turn key implementations but rather useful strategies for solving certain problems in the development of modern resource oriented systems both on the public Web and within an organization s firewalls Table of Contents List of Figures Informational Patterns Applicative Patterns Procedural Patterns

Data Virtualization for Business Intelligence Systems Rick van der Lans,2012-07-25 Annotation In this book Rick van der Lans explains how data virtualization servers work what techniques to use to optimize access to various data sources and how these products can be applied in different projects **Dependability Engineering and Complex Systems** Wojciech Zamojski,Jacek Mazurkiewicz,Jarosław Sugier,Tomasz Walkowiak,Janusz Kacprzyk,2016-06-17 These proceedings present the results of the Eleventh International Conference on Dependability and Complex Systems DepCoS RELCOMEX which took place in a picturesque Brun w Palace in Poland from 27th June to 1st July 2016 DepCoS RELCOMEX is a series of international conferences organized annually by Department of Computer Engineering of Wroc aw University of Science and Technology since 2006 The roots of the series go as far back as to the seventies of the previous century the first RELCOMEX conference took place in 1977 and now its main aim is to promote a multi disciplinary approach to dependability problems in theory and engineering practice of complex systems Complex systems nowadays most often computer based and distributed are built upon a variety of technical information software and human resources The challenges in their design analysis and maintenance not only originate from the involved technical and organizational structures but also from the complexity of the information processes that must be efficiently executed in a diverse often hostile operational environment Traditional methods of reliability evaluation focused only on technical resources are usually insufficient in this context and more innovative multidisciplinary methods of dependability analysis must be applied The diversity of the topics which need to be considered is well illustrated by the selection of the submissions in these proceedings with their subjects ranging from

mathematical models and design methodologies through software engineering and data security issues up to practical problems in technical e.g. transportation systems

SOA with REST Thomas Erl, Benjamin Carlyle, Cesare Pautasso, Raj Balasubramanian, 2012-08-06 The Definitive Guide to Building Web Centric SOA with REST The World Wide Web is based on the most successful technology architecture in history It has changed how we view access and exchange information and with the advent of REST it has also provided us with compelling ways to build and improve automation solutions REST provides a great deal of guidance to ensure that an architecture and its automation logic are technically sound though it is still your responsibility to build services that actually add value to your business SOA with REST is the first comprehensive tutorial and reference for designing and building RESTful services as part of service oriented solutions and in conjunction with service oriented architecture SOA This book demonstrates that REST is not only a suitable medium for building truly service oriented solutions but also that the service oriented architectural model is a necessary foundation for REST technology architectures to realize their full business potential The authors provide thorough mapping of REST constraints and architectural goals with service orientation principles and SOA characteristics Using real world examples they show how to leverage REST's simplicity flexibility and low overhead without compromising the power or manageability of service oriented solutions and architectures This ebook will be valuable to IT architects developers and any practitioner seeking to use SOA and REST together

RESTful Web Services Cookbook Subrahmanyam Allamaraju, 2010

RESTful Web API Patterns and Practices Cookbook Mike Amundsen, 2022-10-17 Many organizations today orchestrate and maintain apps that rely on other people's services Software designers developers and architects in those companies often work to coordinate and maintain apps based on existing microservices including third party services that run outside their ecosystem This cookbook provides proven recipes to help you get those many disparate parts to work together in your network Author Mike Amundsen provides step by step solutions for finding connecting and maintaining applications designed and built by people outside the organization Whether you're working on human centric mobile apps or creating high powered machine to machine solutions this guide shows you the rules routines commands and protocols the glue that integrates individual microservices so they can function together in a safe scalable and reliable way Design and build individual microservices that can successfully interact on the open web Increase interoperability by designing services that share a common understanding Build client applications that can adapt to evolving services without breaking Create resilient and reliable microservices that support peer to peer interactions on the web Use web based service registries to support runtime find and bind operations that manage external dependencies in real time Implement stable workflows to accomplish complex multiservice tasks consistently

RESTful Web Services Leonard Richardson, Sam Ruby, 2008-12-17 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 *Restful Web API Patterns and Practices Cookbook* Amundsen, Mike, 2022-11-15

RESTful Web Microservices Cookbook Mike Amundsen, 2022 Many organizations today orchestrate and maintain apps that rely on other people's services Software designers developers and architects in those companies often work to coordinate and maintain apps based on existing microservices including third party services that run outside their ecosystem This cookbook provides proven recipes to help you get those many disparate parts to work together in your network Author Mike Amundsen provides step by step solutions for finding connecting and maintaining applications designed and built by people outside the organization Whether you're working on human centric mobile apps or creating high powered machine to machine solutions this guide shows you the rules routines commands and protocols the glue that integrates individual microservices so they can function together in a safe scalable and reliable way Design and build individual microservices that can successfully interact on the open web Increase interoperability by designing services that share a common understanding Build client applications that can adapt to evolving services without breaking Create resilient and reliable microservices that support peer to peer interactions on the web Use web based service registries to support runtime find and bind operations that manage external dependencies in real time Implement stable workflows to accomplish complex multiservice tasks consistently *Hands-On RESTful Web Services with Go* Naren Yellavula, 2020-02-28 Design production

ready testable and maintainable RESTful web services for the modern web that scale easily

Key Features

- Employ a combination of custom and open source solutions for application program interface API development
- Discover asynchronous API and API security patterns and learn how to deploy your web services to the cloud
- Apply design patterns and techniques to build reactive and scalable web services

Book Description

Building RESTful web services can be tough as there are countless standards and ways to develop API. In modern architectures such as microservices, RESTful APIs are common in communication, making idiomatic and scalable API development crucial. This book covers basic through to advanced API development concepts and supporting tools. You'll start with an introduction to REST API development before moving on to building the essential blocks for working with Go. You'll explore routers, middleware, and available open source web development solutions in Go to create robust APIs and understand the application and database layers to build RESTful web services. You'll learn various data formats like protocol buffers and JSON and understand how to serve them over HTTP and gRPC. After covering advanced topics such as asynchronous API design and GraphQL for building scalable web services, you'll discover how microservices can benefit from REST. You'll also explore packaging artifacts in the form of containers and understand how to set up an ideal deployment ecosystem for web services. Finally, you'll cover the provisioning of infrastructure using infrastructure as code (IaC) and secure your REST API. By the end of the book, you'll have intermediate knowledge of web service development and be able to apply the skills you've learned in a practical way.

What you will learn

- Explore the fundamentals of API development and web services
- Understand the various building blocks of API development in Go
- Use superior open source solutions for representational state transfer (REST) API development
- Scale a service using microservices and asynchronous design patterns
- Deliver containerized artifacts to the Amazon Web Services (AWS) Cloud
- Get to grips with API security and its implementation

Who this book is for

This book is for all the Go developers who are comfortable with the language and seeking to learn REST API development. Even senior engineers can enjoy this book as it discusses many cutting edge concepts such as building microservices, developing API with GraphQL, using protocol buffers, asynchronous API design, and Infrastructure as a Code. Developers who are already familiar with REST concepts and stepping into the Go world from other platforms such as Python and Ruby can also benefit a lot.

RESTful Web Services Cookbook □□□ □□□□□, □□□, □□, 2011

Developing RESTful Web Services with Jersey 2.0 Sunil Gulabani, 2013-11

The book will follow a standard tutorial approach and will teach readers how to use the Jersey API for creating RESTful web services. This book is intended for Java EE developers who are building applications on the REST architecture. This is a quick hands on guide for learning JAX-RS 2.0. Developers should have some knowledge about RESTful web services but it's not essential to know JAX-RS 1.0.

[RESTful Web Clients](#) Mike Amundsen, 2017

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

Restful Web Services Cookbook Solutions For Improving Scalability And Simplicity Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Restful Web Services Cookbook Solutions For Improving Scalability And Simplicity**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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