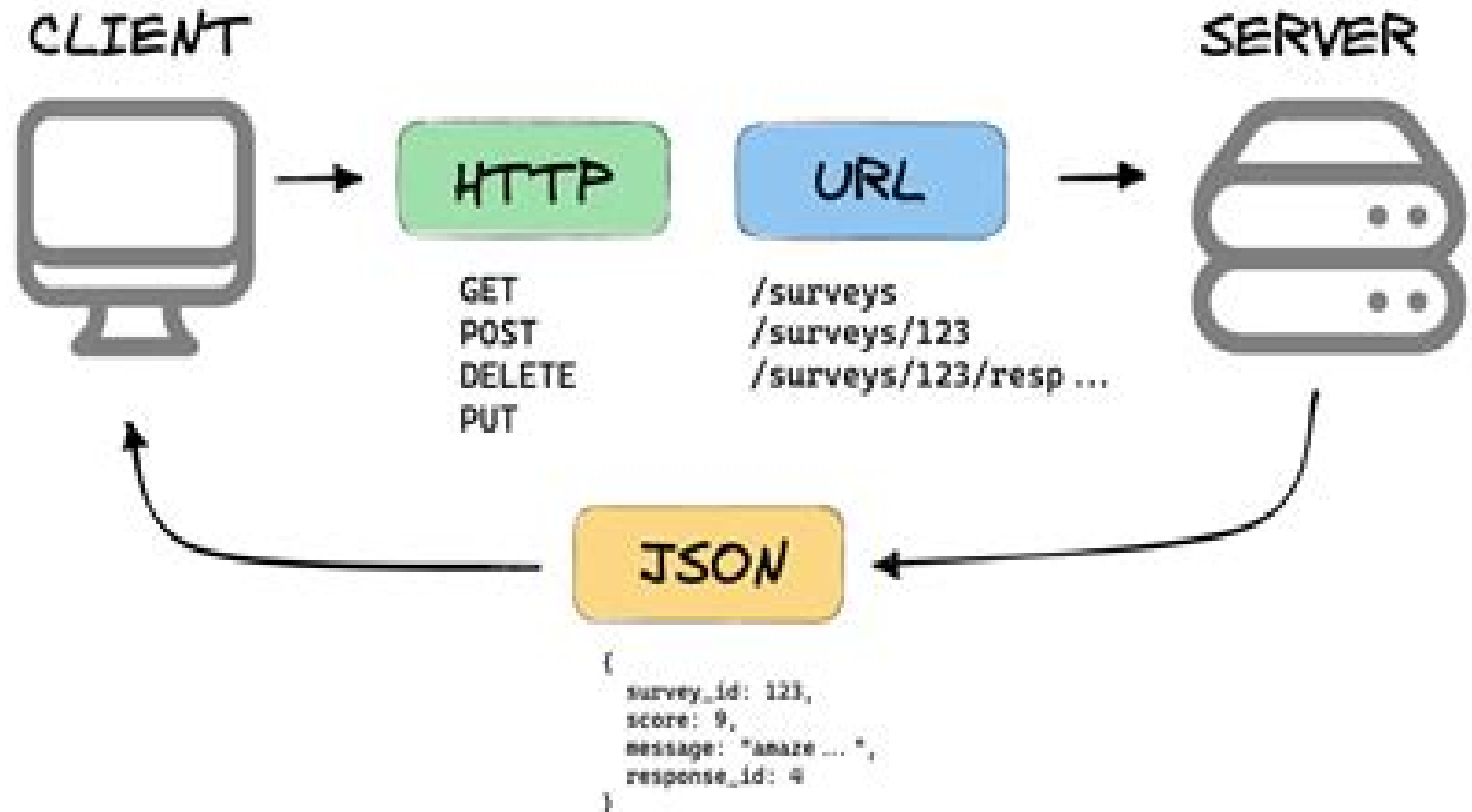


WHAT IS A REST API?



Restful Web Apis

Harihara Subramanian,Pethuru Raj

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Restful Web Apis:

RESTful Web APIs Leonard Richardson, Mike Amundsen, Sam Ruby, 2013-09-12 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 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 APIs](#) Leonard Richardson, 2013 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 REST API Design Rulebook Mark Masse,2011-10-25 The basic rules of REST APIs many nouns few verbs stick with HTTP seem easy but that simplicity and power require discipline to work smoothly This brief guide provides next steps for implementing complex projects on simple and extensible foundations *RESTful Web Services* Leonard Richardson,Sam Ruby,2007-05-08 Shows how to use the REST architectural style to create web sites that can be used by computers as well as machines providing basic rules for using REST and real life examples of such Web services

Hands-On RESTful API Design Patterns and Best Practices Harihara Subramanian,Pethuru Raj,2019-01-31 Build effective RESTful APIs for enterprise with design patterns and REST framework s out of the box capabilities Key FeaturesUnderstand advanced topics such as API gateways API securities and cloudImplement patterns programmatically with easy to follow examplesModernize legacy codebase using API connectors layers and microservicesBook 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 learnExplore RESTful concepts including URI HATEOAS and Code on DemandStudy core patterns like Statelessness Pagination and DiscoverabilityOptimize endpoints for linked microservices with API gatewaysDelve into API authentication authorization and API security implementationsWork with Service Orchestration to craft composite and process aware servicesExpose RESTful protocol based APIs for cloud computingWho 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 APIs* Leonard Richardson,Mike Amundsen,Sam Ruby,2013-09-12 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 API Design with Node.js 10, Third Edition Valentin Bojinov, 2018-04-30 RESTful services have become the standard data feed providers for social services, news feeds, and mobiles. If you want to build fast REST APIs and want to deliver a large amount of data to millions of users, you'll find this book extremely useful. This book will teach you to create scalable RESTful applications based on the Node.js platform.

RESTful Web API Design with Node.js Valentin Bojinov, 2016-05-26 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 solutions 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 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 *Building RESTful Web Services with Go* Naren Yellavula,2017-12-28 Explore the necessary concepts of REST API development by building few real world services from scratch Key Features Follow best practices and explore techniques such as clustering and caching to achieve a reactive scalable web service Leverage the Gin Framework to quickly implement RESTful endpoints Learn to implement a client library for a RESTful web service using Go Book Description REST is an architectural style that tackles the challenges of building scalable web services and 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 Go makes it a breeze for developers to work with it to build robust Web APIs This book takes you through the design of RESTful web services and leverages a framework like Gin to implement these services The book starts with a brief introduction to REST API development and how it transformed the modern web You will learn how to handle routing and authentication of web services along with working with middleware for internal service The book explains how to use Go frameworks to build RESTful web services and work with MongoDB to create REST API You will learn how to integrate Postgres SQL and JSON with a Go web service and build a client library in Go for consuming REST API You will learn how to scale APIs using the microservice architecture and deploy the REST APIs using Nginx as a proxy server Finally you will learn how to metricize a REST API using an API Gateway By the end of the book you will be proficient in building RESTful APIs in Go What you will

learn Create HTTP handler and introspect the Gorilla Mux router OAuth 2 implementation with Go Build RESTful API with Gin Framework Create REST API with MongoDB and Go Build a working client library and unit test for REST API Debug test and profile RESTful APIs with each of the frameworks Optimize and scale REST API using microservices Who this book is for This book is intended for those who want to learn to build RESTful web services with a framework like Gin To make best use of the code samples included in the book you should have a basic knowledge of Go programming

Pro ASP.NET Web API Security Badrinarayanan Lakshmiraghavan, 2013-05-13 ASP.NET Web API is a key part of ASP.NET MVC 4 and the platform of choice for building RESTful services that can be accessed by a wide range of devices Everything from JavaScript libraries to RIA plugins RFID readers to smart phones can consume your services using platform agnostic HTTP With such wide accessibility securing your code effectively needs to be a top priority You will quickly find that the WCF security protocols you're familiar with from .NET are less suitable than they once were in this new environment proving themselves cumbersome and limited in terms of the standards they can work with Fortunately ASP.NET Web API provides a simple robust security solution of its own that fits neatly within the ASP.NET MVC programming model and secures your code without the need for SOAP meaning that there is no limit to the range of devices that it can work with if it can understand HTTP then it can be secured by Web API These SOAP less security techniques are the focus of this book

Restlet in Action Thierry Templier, Thierry Boileau, Jerome Louvel, 2012-09-25 Summary Restlet in Action gets you started with the Restlet Framework and the REST architecture style You'll create and deploy applications in record time while learning to use popular RESTful Web APIs effectively This book looks at the many aspects of web development on both the server and client side along with cloud computing mobile Android devices and Semantic Web applications About the Technology In a RESTful architecture any component can act if needed as both client and server this is flexible and powerful but tricky to implement The Restlet project is a reference implementation with a Java based API and everything you need to build servers and web clients that integrate with most web and enterprise technologies About the Book Restlet in Action introduces the Restlet Framework and RESTful web APIs You'll see how to easily create and deploy your own web API while learning to consume other web APIs effectively You'll learn about designing securing versioning documentation optimizing and more on both the server and client side as well as about cloud computing mobile Android devices and Semantic Web applications The book requires a basic knowledge of Java and the web but no prior exposure to REST or Restlet Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What's Inside Written by the creators of Restlet How to create your own web API How to deploy on cloud and mobile platforms Focus on Android Google App Engine Google Web Toolkit and OSGi technologies Table of Contents PART 1 GETTING STARTED Introducing the Restlet Framework Beginning a Restlet application Deploying a Restlet application PART 2 GETTING READY TO ROLL OUT Producing and consuming Restlet representations Securing a Restlet application Documenting and versioning

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RESTful Web APIs with Spring Josh Long, 2014 4 Hours of Video Instruction Overview RESTful Web APIs with Spring LiveLessons demonstrates how to write REST services and manage secure and consume them using Spring Boot Description REST has enabled people to build mobile applications that capture our imagination entertain us and help us REST has ushered in a generation of incredibly sophisticated HTML5 powered browser applications REST has also made it easier for organizations to adopt a service oriented architecture with less friction REST's flexibility however can also be its greatest weakness as often as not there is no clear guidance on where to go and how to get there What does it mean to deploy a REST service How do you handle errors in a REST service What's the easiest way to write a REST service Spring Developer Advocate Josh Long discusses and demonstrates strategies for securing REST API access along with handling errors and versioning These LiveLessons also cover how hypermedia and HATEOAS help you to deliver developer and consume friendly web services About the Instructor Josh Long is an open source developer and the Spring developer Advocate at Pivotal He is the author of four books and is the author of Spring Framework LiveLessons Josh has spoken at many different industry conferences internationally including TheServerSide Java Symposium SpringOne OSCON JavaZone DevOxx Java2Days and many others When he's not hacking on code for SpringSource he can be found at the local Java User Group or at the local coffee shop Josh likes solutions that push the boundaries of the technologies that enable them His interests include scalability BPM grid processing mobile computing and so called smart systems He blogs at spring.io/blog or joshlong.com You can follow Josh on Twitter [starbuxman](https://twitter.com/starbuxman) Josh Long's Spring Framework LiveLessons provides a walking tour of all of the Spring projects including Spring Spring MVC Spring Data Spring Batch Spring Integration Spring Security Spring Social and more Skill Level Intermediate What You Will Learn Spring and Spring Boot How to build a REST service using Spring How to embrace hypermedia with Spring HATEOAS How to secure a REST API What's involved in deploying a micro service Who Should Take This Course Developers who want to jump on board the REST bandwagon REST is the key to enabling mobile and HTML5 applications REST is the technology that lets you play in a distributed

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 learnExplore the fundamentals of API development and web servicesUnderstand the various building blocks of API development in GoUse superior open source solutions for representational state transfer REST API developmentScale a service using microservices and asynchronous design patternsDeliver containerized artifacts to the Amazon Web Services AWS CloudGet to grips with API security and its implementationWho 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

Building a RESTful Web Service with Spring Ludovic Dewailly, 2015-10-14 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

C++ A Language for Modern Programming, 2023-10-04 Book Description C Programming A Journey to the Heart of a Versatile Language is a comprehensive guide to learning and mastering C one of the most powerful and versatile programming languages available This book goes beyond the basics offering readers a deep understanding of C s capabilities limitations and its intricate tapestry of uses in the ever evolving landscape of software development Written by an experienced C programmer and educator this book covers a wide range of topics from fundamental C concepts to advanced applications in various fields Each section is packed with practical examples case studies and exercises to ensure readers gain a deep understanding of the concepts at hand Whether you re a complete novice an experienced programmer looking to expand your skills or a professional seeking to harness the full potential of C this book is your faithful companion Here are some of the key features of this book Comprehensive coverage of C fundamentals including data types variables functions classes objects inheritance polymorphism templates generics exception handling and the Standard Template Library STL In depth exploration of advanced C features such as concepts ranges and coroutines Real world examples and hands on exercises to solidify learning and boost confidence Best practices design patterns and advanced techniques to elevate coding skills Focus on developing a problem solving mindset and crafting elegant and efficient software This book is ideal for Anyone interested in learning C programming Experienced programmers looking to expand their C skills Professionals seeking to harness the full potential of C Embark on a journey to the heart of C programming with this comprehensive and engaging guide Discover the language s power and versatility and learn to create software that inspires and empowers 20 chapters 319 pages

Service-Oriented Computing Xavier Franch,Aditya K Ghose,Grace A. Lewis,Sami Bhiri,2014-10-10 This book constitutes the refereed conference proceedings of the 12th International Conference on Service Oriented Computing ICSOC 2014 held in Paris France in November 2014 The 25 full and 26 short papers presented were carefully reviewed and selected from 180 submissions The papers are organized in topical sections on business process management service composition and

discovery service design description and evolution cloud and business service management ensuring composition properties quality of service semantic web services service management cloud service management business service management trust service design and description

Service Science Jianping Wang, Bin Xiao, Xuanzhe Liu, 2024-08-18 This book constitutes of the revised selected papers presented at the CCF 17th International Conference on Service Science ICSS 2024 held in Hong Kong China in May 11 12 2024 The 12 full papers and 2 short papers presented here were carefully reviewed and selected from 21 submissions These papers have been categorized into the following sections Cloud service and Edge service Knowledge inspired service Trustworthy services Service application

RESTful Web API Design with Node.js - Second Edition Saleh Hamadeh, 2017 Explore the practical side of REST to build data centric applications with Node About This Video Work through a series of guidelines and best practices to efficiently design RESTful Web APIs with Node Understand the structure of APIs their authentication protocols and their implementation tools This practical guide provides the knowledge you need to delve into the endless possibilities enabled by Big Data In Detail RESTful Web APIs allow developers to create unprecedented applications by leveraging the data on the internet Since JavaScript is the language of the web building APIs using Node.js provides a seamless development experience on both the front end and the back end This video course gives you an overview of a RESTful API and goes through the logical steps of building one It explores three different APIs focusing on their similarities and differences to effectively implement one We'll start off by defining APIs showing you how they can be built on top of HTTP and listing the properties that make an API RESTful We will develop Twitter Notes a web application that lets its users leave notes for their Twitter friends We will use Twitter's API to implement a login flow and then design a web API In addition to using Twitter's API we will take a closer look at two other real world APIs Facebook API and GitHub API Finally we'll look at some best practices to keep the APIs secure maintainable and performing By the end of this course you will have a good grasp of APIs HTTP REST OAuth 1.0a API testing and site reliability performance and security Since the course explores three different REST APIs you will reach a level where you will be comfortable using any RESTful API even if it does not have an SDK

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Restful Web Apis Introduction

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