

Download Free Asp Net Web Api Build Restful Web Applications And Services On The Net Framework Joydip Kanjilal Pdf For Free

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Practices Cookbook Building Web Apps with Python and Flask
Hands-On RESTful Web Services with TypeScript 3 RESTful Web
API Design with Node. Js 10, Third Edition Kotlin Blueprints
Building Restful Web Services with Java Ee 8 Restful Web
Services with Scala Django for APIs Restful Java Web Services
Second Edition

Restful Java Web Services Second Edition Aug 17 2019

Design scalable and robust RESTful web services with JAX-RS and Jersey extension APIs
About This Book• Get to grips with the portable Java APIs used for JSON processing• Design solutions to produce, consume, and visualize RESTful web services using WADL, RAML, and Swagger• A step-by-step guide packed with many real-life use-cases to help you build efficient and secure RESTful web APIs in Java
Who This Book Is ForIf you are a web developer with a basic understanding of the REST concepts but are new to the idea of designing and developing RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must.
What You Will Learn• Introduce yourself to the RESTful software architectural style and the REST API design principles• Make use of the JSR 353 APIs and Jackson API for JSON processing• Build portable RESTful web APIs, making use of the JAX-RS 2.0 API• Simplify API development using the Jersey extension APIs• Secure your RESTful web services with various authentication and authorization mechanisms• Get to grips with the various metadata solutions to describe, produce, and consume RESTful web services• Understand the design and coding guidelines to build well-performing RESTful APIs• See how the role of RESTful web services changes with emerging technologies and trends
In DetailREST (REpresentational State Transfer) is a simple yet powerful software architecture style to create scalable web services and allow them to be simple, lightweight, and fast. The REST API uses HTTP and JSON, so that it can be used with many

programming languages such as Ruby, Java, Python, and Scala. Its use in Java seems to be the most popular though, because of the API's reusability. This book is a guide to developing RESTful web services in Java using the popular RESTful framework APIs available today. You will begin with gaining an in-depth knowledge of the RESTful software architectural style and its relevance in modern applications. Further, you will understand the APIs to parse, generate, transform, and query JSON effectively. Then, you will see how to build a simple RESTful service using the popular JAX-RS 2.0 API along with some real-world examples. This book will introduce you to the Jersey framework API, which is used to simplify your web services. You will also see how to secure your services with various authentication mechanisms. You will get to grips with various solutions to describe, produce, consume, and visualize RESTful web services. Finally, you will see how to design your web services to equip them for the future technological advances, be it Cloud or mobile computing. By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services, making use of the JAX-RS and Jersey framework extensions. Style and approach This book is written as a step-by-step guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions.

Django RESTful Web Services Nov 12 2021 Design, build and test RESTful web services with the Django framework and Python
Key Features Create efficient real-world RESTful web services with the latest Django framework Authenticate, secure, and integrate third-party packages efficiently in your Web Services Leverage the power of Python for faster Web Service development
Book Description Django is a Python web framework that makes the web development process very easy. It reduces the amount of trivial code, which simplifies the creation of web

applications and results in faster development. It is very powerful and a great choice for creating RESTful web services. If you are a Python developer and want to efficiently create RESTful web services with Django for your apps, then this is the right book for you. The book starts off by showing you how to install and configure the environment, required software, and tools to create RESTful web services with Django and the Django REST framework. We then move on to working with advanced serialization and migrations to interact with SQLite and non-SQL data sources. We will use the features included in the Django REST framework to improve our simple web service. Further, we will create API views to process diverse HTTP requests on objects, go through relationships and hyperlinked API management, and then discover the necessary steps to include security and permissions related to data models and APIs. We will also apply throttling rules and run tests to check that versioning works as expected. Next we will run automated tests to improve code coverage. By the end of the book, you will be able to build RESTful web services with Django. What you will learn

- The best way to build a RESTful Web Service or API with Django and the Django REST Framework
- Develop complex RESTful APIs from scratch with Django and the Django REST Framework
- Work with either SQL or NoSQL data sources
- Design RESTful Web Services based on application requirements
- Use third-party packages and extensions to perform common tasks
- Create automated tests for RESTful web services
- Debug, test, and profile RESTful web services with Django and the Django REST Framework

Who this book is for This book is for Python developers who want to create RESTful web services with Django; you need to have a basic working knowledge of Django but no previous experience with RESTful web services is required.

RESTful .NET Oct 23 2022 RESTful .NET is the first book that teaches Windows developers to build RESTful web services using the latest Microsoft tools. Written by Windows Communication

Foundation (WFC) expert Jon Flanders, this hands-on tutorial demonstrates how you can use WCF and other components of the .NET 3.5 Framework to build, deploy and use REST-based web services in a variety of application scenarios. RESTful architecture offers a simpler approach to building web services than SOAP, SOA, and the cumbersome WS- stack. And WCF has proven to be a flexible technology for building distributed systems not necessarily tied to WS- standards. RESTful .NET provides you with a complete guide to the WCF REST programming model for building web services consumed either by machines or humans. You'll learn how to: Program Read-Only (GET) services Program READ/WRITE services Host REST services Program REST feeds Program AJAX REST clients Secure REST endpoints Use workflow to deliver REST services Consume RESTful XML services using WCF Work with HTTP Work with ADO.NET Data Services (Astoria) RESTful .NET introduces you to the ideas of REST and RESTful architecture, and includes a detailed discussion of how the Web/REST model plugs into the WCF architecture. If you develop with .NET, it's time to jump on the RESTful bandwagon. This book explains how. "While REST is simple, WCF is not. To really understand and exploit this part of WCF requires a knowledgeable and experienced guide. I don't know anybody who's better suited for this role than Jon Flanders. ...Jon is first-rate at explaining complicated things. This book is the best introduction I've seen to creating and using these services with WCF."--David Chappell, Chappell & Associates

Hands-On RESTful Web Services with Go - Second Edition Jun 19 2022 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 microser...

JavaScript Web Development Jun 07 2021 If you want to discover how to build a Node.js and Express server, this book is for you! The goal for this book is to build a Node.js and Express server. We're going to then create endpoints for retrieving, inserting, updating, patching, and the deleting data within our Express server. We're going to add exception handling and learn to use the XMLHttpRequest object in JavaScript. **BUY THIS BOOK NOW AND GET STARTED TODAY!** In this book you will discover:

- How to Get the Right Tools
- How to Create Express Server
- How to Retrieve and Search for Data Using REST API Methods
- How to Create a Module
- How to Get a Single Piece of Data
- How to Search for Data
- How to Create POST Endpoint to Insert Data
- How to Create DELETE Endpoint to Delete Data
- How to Create PATCH Endpoint to Patch Data
- How to Handle Exceptions in REST API Methods
- How to Build a Reusable Error Module
- How to Call REST API from an HTML Page

BUY THIS BOOK NOW AND GET STARTED TODAY!

Hands-On RESTful Web Services with Go, Second Edition
Jan 14 2022

RESTful Web Services Cookbook Jan 02 2021 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

RESTful Java Web Services Aug 09 2021 The approach we take is ideal for software developers with some, or extensive, programming experience: we design a RESTful API, which serves as our software specification, and implement it with every framework discussed in the book—there are no hypothetical examples; only practical working applications. This book is for Java developers who want to code RESTful web services using any of the open source RESTful frameworks available to date, for example, JAX-RS implementations such as Jersey and RESTEasy, the Restlet lightweight framework, or Struts 2 with the REST plug-in. You don't need to know REST, as we cover the theory of REST and web services; however, you should be familiar with the Java language and have some understanding of Java web applications. For each framework, we develop the same web service outlined in Chapter 4, so there is lots of working code available. This is a practical guide and the majority of the book is about coding RESTful web services, and not just about the theory of REST.

Restful Web Services with Scala Oct 19 2019 Learn the art of creating scalable RESTful web services with Scala About This Book • This is the only book on the market that will help you create scalable RESTful web services using five popular Scala-based REST frameworks • Quickly identify the best framework for a specific problem and select the most appropriate solution to suit your requirements • This practical guide will help you implement a complete REST-based API from scratch Who This Book Is For If you are a Scala developer with some Scala experience and you

want to get an overview of the frameworks that are available in the Scala world, then this book is perfect for you. You need to have a general knowledge of REST and Scala. This book is great for senior Scala (or other language) developers who are looking for a good REST framework to use together with Scala.

What You Will Learn

- Set up a development environment to easily develop and test REST services
- Discover the different ways in which you can create REST services with Scala
- See and explore the different approaches taken by popular REST frameworks
- Get to know more about a variety of available Scala frameworks such as Finch, Unfiltered, Scalatra, Akka-HTTP, and Play
- Discover how to create a REST service on top of each framework discussed in this book
- Create HTTP clients using the frameworks in this book
- Make an informed decision about which framework to use in a specific situation
- Set up authentication for your REST services

In Detail

RESTful web services are built to work best on the web. Scala provides a rich set of language constructs and advanced frameworks that you can use to create REST services. However, using Scala and these tools can be a complex task. There are many frameworks available and choosing the wrong framework or approach can cost a lot of time and lead to much frustration. By exploring the most popular Scala REST frameworks, you can make sure you choose the right tool.

RESTful Web Services with Scala begins with a brief explanation of the REST architecture and its implementation in Scala, as well as the impact that REST architecture has on Scala applications. You will understand the advantages of building Scala web services and how existing Scala applications can take advantage of REST. This book will teach developers about the different programming paradigms available in the Scala world to create RESTful services by exploring the most popular Scala-oriented REST frameworks. It discusses the various facets of RESTful web services such as building scalable APIs, working with standards like HTTP and MIME, designing the architecture, securing the web service, and

more. With this book, you will be able to build RESTful web services with various Scala frameworks such as Finch, Unfiltered, Scalatra, Akka-HTTP, and Play. You will create basic REST services using frameworks and then extend the REST services with custom functionality. By the end of the book, you'll be able to decide which framework is best suited for your requirements. We finish by looking at how we can use a number of advanced features provided by these frameworks, such as security, creating HTTP clients, working with HATEOAS, and more. Style and approach This book follows a practical approach where we implement a REST API using each of the frameworks discussed. This book is filled with rich examples and code so you can understand and implement the features of every framework.

Building RESTful Python Web Services Dec 13 2021 Create web services that are lightweight, maintainable, scalable, and secure using the best tools and techniques designed for Python About This Book Develop RESTful Web Services using the most popular frameworks in Python Configure and fine-tune your APIs using the best tools and techniques available This practical guide will help you to implement complete REST-based APIs from scratch Who This Book Is For This book is for web developers who have working knowledge of Python and would like to build amazing web services by taking advantage of the various frameworks of Python. You should have some knowledge of RESTful APIs. What You Will Learn Develop complex RESTful APIs from scratch with Python combined with and without data sources Choose the most appropriate (micro) framework based on the specific requirements of a RESTful API / web service Debug, test, and profile RESTful APIs with each of the frameworks Develop a complex RESTful API that interacts with a PostgreSQL database Add authentication and permissions to a RESTful API built in each of the frameworks Map URL patterns to request handlers and check how the API works Profile an existing API and refactor it to take advantage of asynchronous code In Detail Python is the

language of choice for millions of developers worldwide, due to its gentle learning curve as well as its vast applications in day-to-day programming. It serves the purpose of building great web services in the RESTful architecture. This book will show you the best tools you can use to build your own web services. Learn how to develop RESTful APIs using the popular Python frameworks and all the necessary stacks with Python, Django, Flask, and Tornado, combined with related libraries and tools. We will dive deep into each of these frameworks to build various web services, and will provide use cases and best practices on when to use a particular framework to get the best results. We will show you everything required to successfully develop RESTful APIs with the four frameworks such as request handling, URL mapping, serialization, validation, authentication, authorization, versioning, ORMs, databases, custom code for models and views, and asynchronous callbacks. At the end of each framework, we will add authentication and security to the RESTful APIs and prepare tests for it. By the end of the book, you will have a deep understanding of the stacks needed to build RESTful web services. Style and approach The book takes a straightforward approach, not spending time getting you started with RESTful APIs and web services. It will give you the best use cases for each framework to build great web services in Python.

Building a RESTful Web Service with Spring Feb 03 2021 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.

RESTful Java Web Services - Third Edition Feb 15 2022

Master core REST concepts and create RESTful web services in

Java>About This Book* Build efficient and secure RESTful web

APIs in Java..* Design solutions to produce, consume and visualize RESTful web services using WADL, RAML, and Swagger*

Familiarize the role of RESTful APIs usage in emerging

technology trends like Cloud, IoT, Social Media. Who This Book Is

For If you are a web developer with a basic understanding of the

REST concepts and envisage to get acquainted with the idea of designing and developing RESTful web services, this is the book

for you. As all the code samples for the book are written in Java, proficiency in Java is a must. What You Will Learn* Introduce

yourself to the RESTful software architectural style and the REST

API design principles* Make use of the JSR 353 API, JSR 374 API,

JSR 367 API and Jackson API for JSON processing* Build portable

RESTful web APIs, making use of the JAX-RS 2.1 API* Simplify

API development using the Jersey and RESTEasy extension APIs*

Secure your RESTful web services with various authentication

and authorization mechanisms* Get to grips with the various

metadata solutions to describe, produce, and consume RESTful

web services* Understand the design and coding guidelines to

build well-performing RESTful APIs* See how the role of RESTful

web services changes with emerging technologies and trends In

Detail Representational State Transfer (REST) is a simple yet

powerful software architecture style to create lightweight and

scalable web services. The RESTful web services use HTTP as the

transport protocol and can use any message formats, including

XML, JSON(widely used), CSV, and many more, which makes it

easily inter-operable across different languages and

platforms. This successful book is currently in its 3rd edition and

has been used by thousands of developers. It serves as an

excellent guide for developing RESTful web services in Java. This

book attempts to familiarize the reader with the concepts of

REST. It is a pragmatic guide for designing and developing web services using Java APIs for real-life use cases following best practices and for learning to secure REST APIs using OAuth and JWT. Finally, you will learn the role of RESTful web services for future technological advances, be it cloud, IoT or social media. By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services using Java APIs. Style and approach Step-by-step guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions.

Building Restful Web Services with Java Ee 8 Nov 19 2019

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.

Django for APIs Sep 17 2019 Completely updated for Django 4.0 & Django REST Framework 3.13! Django for APIs is a project-based guide to building modern web APIs with Django & Django REST Framework. It is suitable for beginners who have never built an API before as well as professional programmers looking for a fast-paced introduction to Django fundamentals and best practices. Over the course of 200+ pages you'll learn how to set up a new project properly, how web APIs work under the hood, and advanced testing and deployment techniques. Three separate projects are built from scratch with progressively more advanced features including a Library API, Todo API, and Blog API. User authentication, permissions, documentation, viewsets, and routers are all covered thoroughly. Django for APIs is a best-practices guide to building powerful Python-based web APIs with a minimal amount of code.

Hands-On RESTful API Design Patterns and Best Practices Mar 16 2022 REST architecture (style) is a pivot of distributed systems, simplify data integration amongst modern and legacy applications leverages through the RESTful paradigm. This book is fully loaded with many RESTful API patterns, samples, hands-

on implementations and also discuss the capabilities of many REST API frameworks for Java, Scala, Python and Go

Kotlin Blueprints Dec 21 2019 Get to know the building blocks of Kotlin and best practices when using quality world-class applications About This Book Learn to build exciting and scalable Android and web applications (both the server-side and client-side parts) with your Kotlin skills Dive into the great ecosystem of Kotlin frameworks and libraries through projects that you'll build using this book This project-based guide contains clear instructions to help you extend your applications across a wide domain Who This Book Is For This practical guide is for programmers who are already familiar with Kotlin. If you are familiar with Kotlin and want to put your knowledge to work, then this is the book for you. Kotlin programming knowledge is a must. What You Will Learn See how Kotlin's power and versatility make it a great choice to create applications across various platforms, and how it delivers business and technology benefits Write a robust web applications using Kotlin with Spring Boot Write Android applications with ease using Kotlin Write rich desktop applications in Kotlin Learn how Kotlin can generate Javascript and how this can be used on client side and server side development Understand how native applications can be written with Kotlin/Native Learn the practical aspects of programming in each of the applications In Detail Kotlin is a powerful language that has applications in a wide variety of fields. It is a concise, safe, interoperable, and tool-friendly language. The Android team has also announced first-class support for Kotlin, which is an added boost to the language. Kotlin's growth is fueled through carefully designed business and technology benefits. The collection of projects demonstrates the versatility of the language and enables you to build standalone applications on your own. You'll build comprehensive applications using the various features of Kotlin. Scale, performance, and high availability lie at the heart of the projects, and the lessons learned throughout this book.

You'll learn how to build a social media aggregator app that will help you efficiently track various feeds, develop a geospatial webservice with Kotlin and Spring Boot, build responsive web applications with Kotlin, build a REST API for a news feed reader, and build a server-side chat application with Kotlin. It also covers the various libraries and frameworks used in the projects.

Through the course of building applications, you'll not only get to grips with the various features of Kotlin, but you'll also discover how to design and prototype professional-grade applications.

Style and approach Each chapter is independent and focuses on a unique technology, where Kotlin is used to build an example application. Together the chapters cover a full spectrum.

RESTful Web API Patterns and Practices Cookbook Apr 24 2020

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

ASP.NET Web API 2: Building a REST Service from Start to Finish

Sep 29 2020 The ASP.NET MVC Framework has always been a good platform on which to implement REST-based services, but the introduction of the ASP.NET Web API Framework raised the bar to a whole new level. Now in release version 2.1, the Web API Framework has evolved into a powerful and refreshingly usable platform. This concise book provides technical background and guidance that will enable you to best use the ASP.NET Web API 2 Framework to build world-class REST services. New content in this edition includes: New capabilities in Web API 2 (currently version 2.1). Support for partial updates, or PATCH. API versioning. Support for legacy SOAP-based operations. How to handle non-resource APIs using REST How to best expose relationships between resources JSON Web Tokens, CORS, CSRF Get ready for authors Jamie Kurtz and Brian Wortman to take you from zero to REST service hero in no time at all. No prior experience with ASP.NET Web API is required; all Web API-related concepts are introduced from basic principles and developed to the point where you can use them in a production system. A good working knowledge of C# and the .NET Framework are the only prerequisites to best benefit from this book.

Building Web Apps with Python and Flask Mar 24 2020 A practical guide for the rapid web application development with Flask KEY FEATURES _ Expert-led coverage of core capabilities of Flask, key extensions and its implementation. _ Explore the Werkzeug toolkit and Jinja Template engine and see how Flask interacts with JavaScript and CSS. _ Detailed modules on building and deploying RESTful applications using Flask. _ DESCRIPTION _ This book teaches the reader the complete workflow of developing web applications using Python and its most outperforming microframework, Flask. The book begins with

getting you up to speed in developing a strong understanding of the web application development process and how Python is used in developing the applications. You will learn how to write your own first Flask-based web application in Python. You will learn about web gateway interfaces, including CGI and WSGI along with various tools like the Jinja 2 engine, Werkzeug toolkit, and Click toolkit. You will learn and practice the core features of Flask such as URL routing, rendering, handling static assets of a web application, how to handle cookies and sessions, and other HTTP objects. Once you have developed a strong knowledge of Flask, you will now dive deeper into advanced topics that includes Flask extensions for working with relational and NoSQL databases, Flask_WTF, and Flask-Bootstrap. You will explore design patterns, various blueprints on how to build modular and scalable applications, and finally how to deploy the RESTful APIs successfully on your own.

WHAT YOU WILL LEARN

- _ Get to know everything about the core capabilities of Flask.
- _ Understand the basic building blocks of Flask.
- _ Get familiar with advanced features of Flask, including blueprints, Flask extensions, and database connectivity.
- _ Get ready to design your own Flask-based web applications and RESTful APIs.
- _ Learn to build modular and scalable applications and how to deploy them successfully.

WHO THIS BOOK IS FOR

This book is ideal for Python enthusiasts, open source contributors, and web app developers who intend to add Python web technologies in their skillsets and startup companies. The understanding of the core Python language with intermediate level expertise is required and experience of working with SQL, HTML, CSS, and JavaScript is an added advantage.

TABLE OF CONTENTS

1. Python for CGI
2. WSGI
3. Flask Fundamentals
4. URL Routing
5. Rendering Templates
6. Static Files
7. HTTP Objects
8. Using Databases
9. More Flask Extensions
10. Blueprints and Contexts
11. Web API with Flask
12. Deploying Flask Applications
13. Appendix

Pro RESTful APIs May 06 2021 Discover the RESTful

technologies, including REST, JSON, XML, JAX-RS web services, SOAP and more, for building today's microservices, big data applications, and web service applications. This book is based on a course the Oracle-based author is teaching for UC Santa Cruz Silicon Valley which covers architecture, design best practices and coding labs. Pro RESTful APIs: Design gives you all the fundamentals from the top down: from the top (architecture) through the middle (design) to the bottom (coding). This book is a must have for any microservices or web services developer building applications and services. What You'll Learn Discover the key RESTful APIs, including REST, JSON, XML, JAX, SOAP and more Use these for web services and data exchange, especially in today's big data context Harness XML, JSON, REST, and JAX-RS in examples and case studies Apply best practices to your solutions' architecture Who This Book Is For Experienced web programmers and developers.

ASP.NET Web API Jul 20 2022 This book is a step-by-step, practical tutorial with a simple approach to help you build RESTful web applications and services on the .NET framework quickly and efficiently. This book is for ASP.NET web developers who want to explore REST-based services with C# 5. This book contains many real-world code examples with explanations whenever necessary. Some experience with C# and ASP.NET 4 is expected.

Building RESTful Web Services with Spring 5 Aug 21 2022 Find out how to implement the REST architecture to build resilient software in Java with the help of the Spring 5.0 framework. Key Features Follow best practices and explore techniques such as clustering and caching to achieve a reactive, 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 along with the new front end framework. 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 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 second edition brings forth the power of the latest Spring 5.0 release, working with MVC built-in as well as the front end framework. It then goes beyond the use of Spring to explore approaches to tackle resilience, security, and scalability concerns. Improve performance of your applications with the new HTTP 2.0 standards. 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 using the new Spring Reactive libraries. 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

Who this book is for This book is intended for those who want to learn to build RESTful web services with the latest Spring 5.0

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.

Spring REST Dec 01 2020 Design and develop Java-based RESTful APIs using the latest versions of the Spring MVC and Spring Boot frameworks. This book walks you through the process of designing and building a REST application while delving into design principles and best practices for versioning, security, documentation, error handling, paging, and sorting. Spring REST provides a brief introduction to REST, HTTP, and web infrastructure. You will learn about several Spring projects such as Spring Boot, Spring MVC, Spring Data JPA, and Spring Security, and the role they play in simplifying REST application development. You will learn how to build clients that consume REST services. Finally, you will learn how to use the Spring MVC test framework to unit test and integration test your REST API. After reading this book, you will come away with all the skills to build sophisticated REST applications using Spring technologies.

What You Will Learn Build Java-based microservices, native cloud, or any applications using Spring REST Employ Spring MVC and RESTful Spring Build a QuickPoll application example Document REST services, as well as versioning, paging, and sorting Test, handle errors and secure your application Who This Book Is For Intermediate Java programmers with at least some prior experience with Spring and web/cloud application development.

Building REST APIs with Flask Mar 04 2021 Develop RESTful web services using the Flask micro-framework and integrate them using MySQL. Use Flask to develop, deploy, and manage REST APIs with easy-to-read and understand Python code. Solve your problem from a choice of libraries. Learn to use MySQL as the web services database for your Flask API using SQLAlchemy ORM. Building REST APIs with Flask provides a primer on Flask, RESTful services, and working with pip to set up your virtual

environment. The key differences between NoSQL and SQL are covered, and you are taught how to connect MySQL and Flask using SQLAlchemy. Author Kunal Relan presents best practices for creating REST APIs and guides you in structuring your app and testing REST endpoints. He teaches you how to set up authentication and render HTML using views. You learn how to write unit tests for your REST APIs, and understand mocks, assertions, and integration testing. You will know how to document your REST APIs, deploy your Flask application on all of the major cloud platforms, and debug and monitor your Flask application. What You'll Learn

- Use MySQL to create Flask REST APIs
- Test REST endpoints
- Create CRUD endpoints with Flask and MySQL
- Deploy Flask on all of the major cloud platforms
- Monitor your Flask application

Who This Book Is For Python developers interested in REST API development using Flask and web developers with basic programming knowledge who want to learn how Python and REST APIs work together. Readers should be familiar with Python (command line, or at least pip) and MySQL.

[Django RESTful Web Services](#) Apr 17 2022 Design, build and test RESTful web services with the Django framework and Python

Key Features

- Create efficient real-world RESTful web services with the latest Django framework
- Authenticate, secure, and integrate third-party packages efficiently in your Web Services
- Leverage the power of Python for faster Web Service development

Book Description Django is a Python web framework that makes the web development process very easy. It reduces the amount of trivial code, which simplifies the creation of web applications and results in faster development. It is very powerful and a great choice for creating RESTful web services. If you are a Python developer and want to efficiently create RESTful web services with Django for your apps, then this is the right book for you. The book starts off by showing you how to install and configure the environment, required software, and tools to create RESTful web services with Django and the Django REST framework. We then

move on to working with advanced serialization and migrations to interact with SQLite and non-SQL data sources. We will use the features included in the Django REST framework to improve our simple web service. Further, we will create API views to process diverse HTTP requests on objects, go through relationships and hyperlinked API management, and then discover the necessary steps to include security and permissions related to data models and APIs. We will also apply throttling rules and run tests to check that versioning works as expected. Next we will run automated tests to improve code coverage. By the end of the book, you will be able to build RESTful web services with Django.

What you will learn

- The best way to build a RESTful Web Service or API with Django and the Django REST Framework
- Develop complex RESTful APIs from scratch with Django and the Django REST Framework
- Work with either SQL or NoSQL data sources
- Design RESTful Web Services based on application requirements
- Use third-party packages and extensions to perform common tasks
- Create automated tests for RESTful web services
- Debug, test, and profile RESTful web services with Django and the Django REST Framework

Who this book is for

This book is for Python developers who want to create RESTful web services with Django; you need to have a basic working knowledge of Django but no previous experience with RESTful web services is required.

RESTful Web Services Aug 29 2020 "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.

Building RESTful Web Services with Java EE 8 Sep 10 2021 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.

Start Building Restful Microservices Using Akka HTTP with Scala: A Quick Start Guide to Building Microservices Using Akka HTTP with Scala in a One-Wee

Jul 28 2020

Book Description

This book is a part of Knoldus Reactive Programming Series. Few years ago, applications were much simpler and required all solutions at one

place, we call them monolithic applications. Now a days markets are changing rapidly. You either adapt quickly or you go out of business. If your application is successful, you will start enhancing features day by day and as a result, your application becomes complex day by day and that complexity creates challenges in development. It will be difficult to fully understand and made changes fast and correctly. You must redeploy the entire application on each update. These type of application also has a barrier to adopting new technologies because it will affect the entire application. In this book, you will learn how you can manage this problem by dividing project into smaller pieces. You will learn how quickly you can start transforming your monolithic application into microservices. Microservice can be developed using different programming language (Personally I don't suggest to do it). I prefer Akka HTTP because it is fully integrated into Typesafe stack. Since there are already a lot of scala frameworks to build REST APIs then the obvious question is Why Akka HTTP? There are many reasons to use Akka HTTP, which you will learn in this book. I have written this book for those who want to start developing REST API right away and have a basic understanding of Scala. I don't exhaustively list all feature of Akka HTTP. I don't make you suffer through long and contrived example. I have tried to explain every topic of this book with short and easy to understand examples with test-cases. Akka HTTP is available for both Java and Scala but in this book, we will go with Scala. I choose Scala because it cuts down on boilerplate and we can concentrate on the logic of our problems. In Scala, you are not limited to just object-oriented patterns to implement your code, you can bring in functional paradigms as well. What You'll Learn Advantage of using Microservices architecture over monolithic Introduction to Akka HTTP Start coding in Akka HTTP Powerful JSON (un)marshalling support How to build server-side API How to build client-side API WebSocket support using Akka HTTP By the end of the book, you will get the links of multiple sample

projects of Akka HTTP. For ex.: Akka HTTP with SOLR, Akka HTTP with Slick, Akka HTTP with Neo4J. You will also get templates with frameworks like Angular.js, Spark, etc. You can clone these sample projects according to your requirement and start playing with restful web services. Who This Book Is For: Those who want to start working on microservices architecture right away. The only pre-requisite to this book is that you are "comfortable" with Scala. However, language is not a bar, even if you want to develop Java microservices using Akka HTTP, you can still read this book to understand the concept. I have used the latest version of Akka HTTP in this book. About The Author: Ayush Kumar Mishra is a Lead Scala Consultant based in Singapore. He is currently working with Knoldus, an organization where knowledge sharing and upskilling each Knolder is a way of life, which is the only organization to be partners with Lightbend, Databricks, Confluent and Datastax to deliver high-quality reactive products to its global clients. He has been working in Scala for more than 5 years. He loves to troubleshoot complex problems and look for the best solutions. In his career, he has successfully developed and delivered various microservice based systems with Scala and Akka HTTP. When he is not programming, he writes technical blogs. Most of his blogs are related to REST API design. He has also transformed some monolithic systems into microservice based system.

[Building RESTful Web Services with Spring 5](#) Apr 05 2021 Find out how to implement the REST architecture to build resilient software in Java with the help of the Spring 5.0 framework. Key Features ~Follow best practices and explore techniques such as clustering and caching to achieve a reactive, 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 along with the new front end framework. 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 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 second edition brings forth the power of the latest Spring 5.0 release, working with MVC built-in as well as the front end framework. It then goes beyond the use of Spring to explore approaches to tackle resilience, security, and scalability concerns. Improve performance of your applications with the new HTTP 2.0 standards. 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 using the new Spring Reactive libraries. 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

Who this book is for This book is intended for those who want to learn to build RESTful web services with the latest Spring 5.0

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.

Full Stack AngularJS for Java Developers May 26 2020 Get introduced to full stack enterprise development. Whether you are new to AngularJS and Spring RESTful web services, or you are a seasoned expert, you will be able to build a full-featured web application from scratch using AngularJS and Spring RESTful web services. Full stack web development is in demand because you can explore the best of different tools and frameworks and yet make your apps solid and reliable in design, scalability, robustness, and security. This book assists you in creating your own full stack development environment that includes the powerful and revamped AngularJS, and Spring REST. The architecture of modern applications is covered to prevent the development of isolated desktop and mobile applications. By the time you reach the end of this book you will have built a full-featured dynamic app. You will start your journey by setting up a Spring Boot development environment and creating your RESTful services to perform CRUD operations. Then you will migrate the front-end tools—AngularJS and Bootstrap—into your Spring Boot application to consume RESTful services. You will secure your REST API using Spring Security and consume your secured REST API using AngularJS. What You'll Learn Build a REST application with Spring Boot Expose CRUD operations using RESTful endpoints Create a single page application by integrating Angular JS and Bootstrap in Spring Boot Secure REST APIs using Spring Security Consume secured RESTful Services using Angular JS Build a REST client using a REST template to consume RESTful services Test RESTful services using the Spring MVC Test Framework Who This Book Is For Web application developers with previous Java programming experience who want to create enterprise-grade, scalable Java apps using powerful front tools

such as AngularJS and Bootstrap along with popular back-end frameworks such as Spring Boot

Applying Resource Oriented Architecture Oct 31 2020

Resource Oriented Architecture (ROA) is an architectural style based on the principles of Representational State Transfer (REST). ROA is quickly becoming the technology of choice for developing and designing applications for the web for large scale users. This book highlights the importance of ROA and how it complements SOA, covering cloud computing, mobile Internet, and QoS, among other topics. It explains how to build Web services using ROA and discusses the various frameworks and technologies that are most suitable. Using case studies and examples to illustrate ROA in practice, the text covers various platforms, tools, and technologies that support ROA.

Spring REST Jun 26 2020 *Spring REST* is a practical guide for designing and developing RESTful APIs using the Spring Framework. This book walks you through the process of designing and building a REST application while taking a deep dive into design principles and best practices for versioning, security, documentation, error handling, paging, and sorting. This book provides a brief introduction to REST, HTTP, and web infrastructure. You will learn about several Spring projects such as Spring Boot, Spring MVC, Spring Data JPA, and Spring Security and the role they play in simplifying REST application development. You will learn how to build clients that consume REST services. Finally, you will learn how to use the Spring MVC test framework to unit test and integration test your REST API. After reading this book, you will come away with all the skills to build sophisticated REST applications using Spring technologies.

Building RESTful Web services with Go Nov 24 2022 Explore the necessary concepts of REST API development by building few real world services from scratch. About This Book 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 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. 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 In Detail 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. Style and Approach This book is a step-by-step, hands-on guide to designing and building RESTful web services.

Hands-On RESTful Web Services with TypeScript 3 Feb 21

2020 A step-by-step guide that will help you design, develop, scale, and deploy RESTful APIs with TypeScript 3 and Node.js

Key Features

- Gain in-depth knowledge of OpenAPI and Swagger to build scalable web services
- Explore a variety of test frameworks and test runners such as Stryker, Mocha, and Chai
- Create a pipeline by Dockerizing your environment using Travis CI, Google Cloud Platform, and GitHub

Book Description In the world of web development, leveraging data is the key to developing comprehensive applications, and RESTful APIs help you to achieve this systematically. This book will guide you in designing and developing web services with the power of TypeScript 3 and Node.js. You'll design REST APIs using best practices for request handling, validation, authentication, and authorization. You'll also understand how to enhance the capabilities of your APIs with ODMs, databases, models and views, as well as asynchronous callbacks. This book will guide you in securing your environment by testing your services and initiating test automation with different testing approaches. Furthermore, you'll get to grips with developing secure, testable, and more efficient code, and be able to scale and deploy TypeScript 3 and Node.js-powered RESTful APIs on cloud platforms such as the Google Cloud Platform. Finally, the book will help you explore microservices and give you an overview of what GraphQL can allow you to do. By the end of this book, you will be able to use RESTful web services to create your APIs for mobile and web apps and other platforms. What you will learn

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

Who this book is for If you're a developer who has a basic understanding of REST concepts and want to

learn how to design and develop RESTful APIs, this book is for you. Prior knowledge of TypeScript will help you make the most out of this book.

Building RESTful Web Services with PHP 7 Dec 25 2022 Learn how to build RESTful API and web services in PHP 7 About This Book Leverage the Lumen framework to build RESTful API endpoints for your applications Understand how to increase efficiency and security of your web service. Learn to apply the concepts by implementing the examples covered in the book Who This Book Is For This book is for PHP developers who wish to learn about the REST architecture to be able to build and consume REST APIs in their applications. What You Will Learn Understand the REST API architecture and its benefits Write RESTful API web services in PHP 7 Address security-related issues in a REST API Leverage the importance of automated testing and write tests for API endpoints Identify security flaws in our current API endpoints and tackle them effectively Observe the working of Lumen microframeworks and write RESTful web services in it In Detail REST is the most wide spread and effective standard to develop APIs for internet services. With the way PHP and its ecosystem has modernized the way code is written by simplifying various operations, it is useful to develop RESTful APIs with PHP 7 and modern tools. This book explains in detail how to create your own RESTful API in PHP 7 that can be consumed by other users in your organization. Starting with a brief introduction to the fundamentals of REST architecture and the new features in PHP 7, you will learn to implement basic RESTful API endpoints using vanilla PHP. The book explains how to identify flaws in security and design and teach you how to tackle them. You will learn about composer, Lumen framework and how to make your RESTful API cleaner, secure and efficient. The book emphasizes on automated tests, teaches about different testing types and give a brief introduction to microservices which is the natural way forward. After reading this book, you will have a clear

understanding of the REST architecture and you can build a web service from scratch. Style and approach This book will get you started with REST architecture and will also teach you different methods to build web services from scratch.

RESTful Java Web Services May 18 2022 Master core REST concepts and create RESTful web services in Java About This Book Build efficient and secure RESTful web APIs in Java.. Design solutions to produce, consume and visualize RESTful web services using WADL, RAML, and Swagger Familiarize the role of RESTful APIs usage in emerging technology trends like Cloud, IoT, Social Media. Who This Book Is For If you are a web developer with a basic understanding of the REST concepts and envisage to get acquainted with the idea of designing and developing RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must. What You Will Learn Introduce yourself to the RESTful software architectural style and the REST API design principles Make use of the JSR 353 API, JSR 374 API, JSR 367 API and Jackson API for JSON processing Build portable RESTful web APIs, making use of the JAX-RS 2.1 API Simplify API development using the Jersey and RESTEasy extension APIs Secure your RESTful web services with various authentication and authorization mechanisms Get to grips with the various metadata solutions to describe, produce, and consume RESTful web services Understand the design and coding guidelines to build well-performing RESTful APIs See how the role of RESTful web services changes with emerging technologies and trends In Detail Representational State Transfer (REST) is a simple yet powerful software architecture style to create lightweight and scalable web services. The RESTful web services use HTTP as the transport protocol and can use any message formats, including XML, JSON(widely used), CSV, and many more, which makes it easily inter-operable across different languages and platforms. This successful book is currently in its 3rd edition and has been used by thousands of developers. It

serves as an excellent guide for developing RESTful web services in Java. This book attempts to familiarize the reader with the concepts of REST. It is a pragmatic guide for designing and developing web services using Java APIs for real-life use cases following best practices and for learning to secure REST APIs using OAuth and JWT. Finally, you will learn the role of RESTful web services for future technological advances, be it cloud, IoT or social media. By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services using Java APIs. Style and approach Step-by-step guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions.

Hands-On RESTful Web Services with ASP.NET Core 3 Oct 11 2021

Get up to speed with the latest features of C# 8, ASP.NET Core 3 and .NET Core 3.1 LTS to create robust and maintainable web services Key FeaturesApply design patterns and techniques to achieve a reactive, scalable web serviceDocument your web services using the OpenAPI standard and test them using PostmanExplore mechanisms to implement a secure web service using client-side SSL and token authenticationBook Description In recent times, web services have evolved to play a prominent role in web development. Applications are now designed to be compatible with any device and platform, and web services help us keep their logic and UI separate. Given its simplicity and effectiveness in creating web services, the RESTful approach has gained popularity, and this book will help you build RESTful web services using ASP.NET Core. This REST book begins by introducing you to the basics of the REST philosophy, where you'll study the different stages of designing and implementing enterprise-grade RESTful web services. You'll also gain a thorough understanding of ASP.NET Core's middleware approach and learn how to customize it. The book will later guide you through improving API resilience,

securing your service, and applying different design patterns and techniques to achieve a scalable web service. In addition to this, you'll learn advanced techniques for caching, monitoring, and logging, along with implementing unit and integration testing strategies. In later chapters, you will deploy your REST web services on Azure and document APIs using Swagger and external tools such as Postman. By the end of this book, you will have learned how to design RESTful web services confidently using ASP.NET Core with a focus on code testability and maintainability. What you will learn

- Gain a comprehensive working knowledge of ASP.NET Core
- Integrate third-party tools and frameworks to build maintainable and efficient services
- Implement patterns using dependency injection to reduce boilerplate code and improve flexibility
- Use ASP.NET Core's out-of-the-box tools to test your applications
- Use Docker to run your ASP.NET Core web service in an isolated and self-contained environment
- Secure your information using HTTPS and token-based authentication
- Integrate multiple web services using resiliency patterns and messaging techniques

Who this book is for
This book is for anyone who wants to learn how to build RESTful web services with the ASP.NET Core framework to improve the scalability and performance of their applications. Basic knowledge of C# and .NET Core will help you make the best use of the code samples included in the book.

Hands-On RESTful Python Web Services Jul 08 2021 Explore the best tools and techniques to create lightweight, maintainable, and scalable Python web services

Key Features

- Combine Python with different data sources to build complex RESTful APIs from scratch
- Configure and fine-tune your APIs using the best tools and techniques available
- Use command-line and GUI tools to test CRUD operations performed by RESTful Web Services or APIs

Book Description Python is the language of choice for millions of developers worldwide that builds great web services in RESTful architecture. This second edition of Hands-On RESTful

Python Web Services will cover the best tools you can use to build engaging web services. This book shows you how to develop RESTful APIs using the most popular Python frameworks and all the necessary stacks with Python, combined with related libraries and tools. You'll learn to incorporate all new features of Python 3.7, Flask 1.0.2, Django 2.1, Tornado 5.1, and also a new framework, Pyramid. As you advance through the chapters, you will get to grips with each of these frameworks to build various web services, and be shown use cases and best practices covering when to use a particular framework. You'll then successfully develop RESTful APIs with all frameworks and understand how each framework processes HTTP requests and routes URLs. You'll also discover best practices for validation, serialization, and deserialization. In the concluding chapters, you will take advantage of specific features available in certain frameworks such as integrated ORMs, built-in authorization and authentication, and work with asynchronous code. At the end of each framework, you will write tests for RESTful APIs and improve code coverage. By the end of the book, you will have gained a deep understanding of the stacks needed to build RESTful web services. What you will learn

Select the most appropriate framework based on requirements
Develop complex RESTful APIs from scratch using Python
Use requests handlers, URL patterns, serialization, and validations
Add authentication, authorization, and interaction with ORMs and databases
Debug, test, and improve RESTful APIs with four frameworks
Design RESTful APIs with frameworks and create automated tests
Who this book is for
This book is for web developers who have a working knowledge of Python and would like to build amazing web services by taking advantage of the various frameworks of Python. You should have some knowledge of RESTful APIs.

Building RESTful Web Services with .NET Core Sep 22 2022
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.

RESTful Web API Design with Node. Js 10, Third Edition Jan 22 2020 Design and implement scalable and maintainable RESTful solutions with Node.js 10 Key Features Create rich and scalable RESTful API solutions from scratch Explore the new features of Node.js 10, Express 4.0, and MongoDB Integrate MongoDB in your Node.js application to store and secure your data Book Description When building RESTful services, it is really important to choose the right framework. Node.js, with its asynchronous, event-driven architecture, is exactly the right choice for building RESTful APIs. This third edition of RESTful Web API Design with Node.js 10 will teach you to create scalable and rich RESTful applications based on the Node.js platform. You will be introduced to the latest NPM package handler and understand how to use it to customize your RESTful development process. You will begin by understanding the key principle that makes an HTTP application a RESTful-enabled application. After writing a simple HTTP request handler, you will create and test Node.js modules using automated tests and mock objects; explore using the NoSQL database, MongoDB, to store data; and get to grips with using self-descriptive URLs. You'll learn to set accurate HTTP status codes along with understanding how to keep your applications backward-compatible. Also, while implementing a full-fledged RESTful service, you will use Swagger to document the API and implement automation tests for a REST-enabled endpoint with Mocha. Lastly, you will explore some authentication techniques to secure your application. What you will learn Install, develop, and test your own Node.js user modules Understand the differences between HTTP and RESTful applications Use self-descriptive URLs and set accurate HTTP status codes Eliminate third-party dependencies in your tests with mocking Implement automation tests for a REST-enabled endpoint with Mocha Secure your services with NoSQL database integration within Node.js applications Integrate a simple

frontend using JavaScript libraries available on a CDN server
Who this book is for If you are a web developer keen to enrich
your development skills to create server-side RESTful
applications based on the Node.js platform, this book is for you.
Some knowledge of REST would be an added advantage, but is
definitely not a necessity.

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