

Building A Restful Web Service With Spring Packt Books

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[Building A Restful Web Service](#)

In Spring ' s approach to building RESTful web services, HTTP requests are handled by a controller. These components are identified by the `@RestController` annotation, and the `GreetingController` shown in the following listing (from `src/main/java/com/example/restservice/GreetingController.java`) handles GET requests for `/greeting` by returning a new instance of the `Greeting` class:

[Getting Started | Building a RESTful Web Service](#)

This chapter will explain in detail about building RESTful web services using Spring Boot. Note – For building a RESTful Web Services, we need to add the Spring Boot Starter Web dependency into the build configuration file. If you are a Maven user, use the following code to add the below dependency in your pom.xml file – . If you are a Gradle user, use the following code to add the below dependency in your build.gradle file.

[Spring Boot - Building RESTful Web Services - Tutorialspoint](#)

The race-management company, Acme Racing, wants you to build a RESTful Web service that enables sponsors to create new races and racers for a particular race, and that can provide official results for a particular race.

[Build a RESTful Web service - IBM](#)

Create a resource representation class. Now that you ' ve set up the project and build system, you can create your web service. Begin the process by thinking about service interactions. The service will handle GET requests for `/greeting`, optionally with a name parameter in the query string.

[Building a RESTful Web Service - Vektor Web Solutions](#)

Building Restful Web Services with Spring. In the last post, we covered basic of REST API. This post will guide us through Building Restful Web Services with Spring. If you are starting your project, our recommendation is to use Spring Boot to build your Restful Web Services. In case you don ' t have the option to use Spring Boot, just navigate to the second part of this post for using traditional way to of Building Restful Web Services with Spring.

[Building Restful Web Services | Java Development Journal](#)

Step-by-Step ASP.NET Core RESTful Web Service Development Let ' s start our project: Step 1 First, create an ASP.NET Web Application project in Visual Studio and name it StudentRegistrationDemo2.

[How to Develop a RESTful Web Service in ASP.NET Web API ...](#)

Building a RESTful Web Service with Spring Boot Actuator Spring Boot Actuator is a sub-project of Spring Boot. It adds several production grade services to your application with little effort on your part. In this guide, you will build an application and then see how to add these services.

[Getting Started | Building a RESTful Web Service with ...](#)

Building RESTful Web Services with JAX-RS 32 Building RESTful Web Services with JAX-RS This chapter describes the REST architecture, RESTful web services, and the Java API for RESTful Web Services (JAX-RS, defined in JSR 370). JAX-RS makes it easy for developers to build RESTful web services using the Java programming language.

[Building RESTful Web Services with JAX-RS](#)

New Project ASP.NET Web Application - Creating A REST Webservice. On the next screen it is important to choose the "Web API" template. This template automatically creates a skeleton of a rest interface. Web API Template. After the creation of the project structure we hit run to see what Visual Studio initially provides us. ASP.NET Web API initial look

Creating A REST Webservice With C# And Visual Studio

RESTful web services are built to work best on the Web. Representational State Transfer (REST) is an architectural style that specifies constraints, such as the uniform interface, that if applied to a web service induce desirable properties, such as performance, scalability, and modifiability, that enable services to work best on the Web.

Chapter 13 Building RESTful Web Services with JAX-RS (The ...

Building RESTful Web Services with .NET Core guides you through the designing of RESTful web services and their implementation using the ASP.NET Core framework. You'll learn about the basic concepts related to REST as well as the steps for designing and implementing an enterprise-grade RESTful web service.

Building RESTful Web Services with .NET Core: Developing ...

Buy Building a RESTful Web Service with Spring: A hands-on guide to building an enterprise-grade, scalable RESTful web service using the Spring Framework by Dewailly, Ludovic (ISBN: 9781785285714) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Building a RESTful Web Service with Spring: A hands-on ...

This guide aims to help you create from scratch a CRUD RESTful API with Spring Boot. We ' ll create an User entity and develop its endpoints accordingly with a Rest Controller and a Service class.

Building a CRUD RESTful API/Web Service with Spring Boot ...

Since REST hinges on URIs, the Spring Web MVC framework provides all the necessary tools for building RESTful endpoints. Annotations, such as `org.springframework.web.bind.annotation.RequestMapping` and `org.springframework.web.bind.annotation.RequestParam` for mapping URLs and parameters form the basis for creating such endpoints.

Building a RESTful Web Service with Spring

Jersey, the reference implementation of JAX-RS, implements support for the annotations defined in JSR 311, making it easy for developers to build RESTful web services by using the Java programming language. If you are developing with GlassFish Server, you can install the Jersey samples and documentation by using the Update Tool.

Building RESTful Web Services with JAX-RS - The Java EE 6 ...

Open a command prompt and create a new directory for your application. Make that the current directory. Enter the following command in a console window: `.NET Core CLI. dotnet new console --name WebAPIClient`. This creates the starter files for a basic "Hello World" application. The project name is "WebAPIClient".

Create a REST client using .NET Core | Microsoft Docs

Building a RESTful Web Service with Spring 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.

Building a RESTful Web Service with Spring - PDF eBook ...

Hands on lab: Use Web API in ASP.NET 4.x to build a simple REST API for a contact manager application. You will also build a client to consume the API. In recent years, it has become clear that HTTP is not just for serving up HTML pages.

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.

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.

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.

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 eco-system 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.

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.

"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.

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 ...

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.

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 (WCF) 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

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

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