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# Building A Restful Web Service With Spring Packt Books

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Building REST APIs with Flask  
Service Design Patterns  
Building RESTful Python Web Services  
RESTful .NET  
Programming JavaScript Applications  
RESTful Web Services Cookbook  
Hands-On RESTful Python Web Services  
RESTful Web APIs  
Java EE 7 Essentials  
Spring 5.0 Projects  
Mastering Spring Boot 2.0  
Modern API Development with Spring and Spring  
Boot  
Building Web Applications with Erlang  
Building RESTful Web Services with Spring 5 -  
Second Edition  
Domain-driven Design  
Distributed Computing in Java 9  
Hands-On RESTful Web Services with TypeScript  
3  
REST API Design Rulebook  
RESTful Java with JAX-RS  
Java Web Services: Up and Running  
Building a RESTful Web Service with Spring

Rust Servers, Services, and Apps  
Java Coding Problems  
Building RESTful Web Services with Java EE 8  
RESTful Java with JAX-RS 2.0  
Hands-On RESTful Web Services with Go  
Spring REST  
RESTful Web Services  
Building RESTful Web Services with Go  
RESTful PHP Web Services  
Building RESTful Web services with Go  
Practical Guide to Building an API Back End with  
Spring Boot  
Django RESTful Web Services  
Pro RESTful APIs  
Building RESTful Web Services with PHP 7  
RESTful Java Web Services  
Hands-On RESTful Web Services with ASP.NET  
Core 3  
Building RESTful Web Services with Spring 5  
RESTful Java Web Services

*Building A  
Restful Web  
Service With  
Spring Packt  
Books*

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## **HAAS ROLAND**

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**Building REST APIs  
with Flask** "O'Reilly  
Media, Inc."

This example-driven  
book offers a thorough

introduction to Java's  
APIs for XML Web  
Services (JAX-WS) and  
RESTful Web Services  
(JAX-RS). Java Web  
Services: Up and  
Running takes a clear,  
pragmatic approach to  
these technologies by  
providing a mix of  
architectural overview,

complete working code examples, and short yet precise instructions for compiling, deploying, and executing an application. You'll learn how to write web services from scratch and integrate existing services into your Java applications. With *Java Web Services: Up and Running*, you will:

- Understand the distinction between SOAP-based and REST-style services
- Write, deploy, and consume SOAP-based services in core Java
- Understand the Web Service Definition Language (WSDL) service contract
- Recognize the structure of a SOAP message
- Learn how to deliver Java-based RESTful web services and consume commercial RESTful services
- Know security

requirements for SOAP- and REST-based web services

Learn how to implement JAX-WS in various application servers

Ideal for students as well as experienced programmers, *Java Web Services: Up and Running* is the concise guide you need to start working with these technologies right away.

*Service Design Patterns* Packt Publishing Ltd

The popularity of REST in recent years has led to tremendous growth in almost-RESTful APIs that don't include many of the architecture's benefits. With this practical guide, you'll learn what it takes to design usable REST APIs that evolve over time. By focusing on solutions that cross a variety of

domains, this book shows you how to create powerful and secure applications, using the tools designed for the world's most successful distributed computing system: the World Wide Web. You'll explore the concepts behind REST, learn different strategies for creating hypermedia-based APIs, and then put everything together with a step-by-step guide to designing a RESTful Web API. Examine API design strategies, including the collection pattern and pure hypermedia. Understand how hypermedia ties representations together into a coherent API. Discover how XMDP and ALPS profile formats can help you meet the Web

API "semantic challenge" Learn close to two-dozen standardized hypermedia data formats Apply best practices for using HTTP in API implementations Create Web APIs with the JSON-LD standard and other the Linked Data approaches Understand the CoAP protocol for using REST in embedded systems Building RESTful Python Web Services "O'Reilly Media, Inc." 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.

**RESTful .NET** "O'Reilly Media, Inc."

Provides information on building Web services using the RESTful architecture and the components of the .NET 3.5 framework.

*Programming*

*JavaScript Applications*

"O'Reilly Media, Inc."

Building a RESTful Web Service with SpringPackt Publishing Ltd

*RESTful Web Services Cookbook* "O'Reilly Media, Inc."

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

**Hands-On RESTful Python Web Services** Apress

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.

**RESTful Web APIs**

Packt Publishing Ltd  
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.

### **Java EE 7 Essentials**

"O'Reilly Media, Inc."

"Working with REST and Web-Sockets on Yaws"--Cover.

*Spring 5.0 Projects*

"O'Reilly Media, Inc."

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 servicesBook  
Description Building RESTful web services can be tough as there are countless standards and ways to develop API. In modern architectures such as microservices, RESTful APIs are common in communication, making idiomatic and scalable API development crucial. This book covers basic through to advanced API development concepts and supporting tools. You'll start with an introduction to REST API development before moving on to building the essential blocks for working with Go. You'll explore routers, middleware, and available open source web development solutions in Go to create robust APIs, and understand

the application and database layers to build RESTful web services. You'll learn various data formats like protocol buffers and JSON, and understand how to serve them over HTTP and gRPC. After covering advanced topics such as asynchronous API design and GraphQL for building scalable web services, you'll discover how microservices can benefit from REST. You'll also explore packaging artifacts in the form of containers and understand how to set up an ideal deployment ecosystem for web services. Finally, you'll cover the provisioning of infrastructure using infrastructure as code (IaC) and secure your REST API. By the end of

the book, you'll have intermediate knowledge of web service development and be able to apply the skills you've learned in a practical way. What you will learn

Explore the fundamentals of API development and web services

Understand the various building blocks of API development in Go

Use superior open source solutions for representational state transfer (REST) API development

Scale a service using microservices and asynchronous design patterns

Deliver containerized artifacts to the Amazon Web Services (AWS) Cloud

Get to grips with API security and its implementation

Who this book is for

This book is for all the Go developers who are

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

[Mastering Spring Boot 2.0](#) Manning Publications

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.

*Modern API*

*Development with Spring and Spring Boot*  
Packt Publishing Ltd  
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.

### **Building Web Applications with Erlang**

Addison-Wesley Professional  
Get up to speed on the principal technologies in the Java Platform, Enterprise Edition 7, and learn how the latest version



embraces HTML5, focuses on higher productivity, and provides functionality to meet enterprise demands. Written by Arun Gupta, a key member of the Java EE team, this book provides a chapter-by-chapter survey of several Java EE 7 specifications, including WebSockets, Batch Processing, RESTful Web Services, and Java Message Service. You'll also get self-paced instructions for building an end-to-end application with many of the technologies described in the book, which will help you understand the design patterns vital to Java EE development. Understand the key components of the Java EE platform, with easy-to-understand

explanations and extensive code samples Examine all the new components that have been added to Java EE 7 platform, such as WebSockets, JSON, Batch, and Concurrency Learn about RESTful Web Services, SOAP XML-based messaging protocol, and Java Message Service Explore Enterprise JavaBeans, Contexts and Dependency Injection, and the Java Persistence API Discover how different components were updated from Java EE 6 to Java EE 7

**Building RESTful Web Services with Spring 5 - Second Edition** Packt Publishing Ltd

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.  
Domain-driven Design  
Packt Publishing Ltd  
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 For  
 If 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 Detail  
 REST (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.

### Distributed Computing in Java 9 Packt

Publishing Ltd  
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.

*Hands-On RESTful Web Services with TypeScript 3* Packt Publishing Ltd

Find out how to implement the REST architecture to build resilient software in Java with the help of the Spring 5.0 framework. About This Book 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. 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. 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 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, securit ...

### **REST API Design**

**Rulebook** Packt

Publishing Ltd

Learn how to design

and develop

distributed web

services in Java, using

RESTful architectural

principles and the JAX-

RS 2.0 specification in

Java EE 7. By focusing

on implementation

rather than theory, this

hands-on reference

demonstrates how

easy it is to get started

with services based on

the REST architecture.

With the book's

technical guide, you'll

learn how REST and

JAX-RS work and when

to use them. The

RESTEasy workbook

that follows provides

step-by-step

instructions for

installing, configuring,

and running several

working JAX-RS

examples, using the

JBoss RESTEasy

implementation of JAX-

RS 2.0. Learn JAX-RS

2.0 features, including

a client API, server-side

asynchronous HTTP,

and filters and

interceptors Examine

the design of a

distributed RESTful

interface for an e-

commerce order entry

system Use the JAX-RS

Response object to

return complex

responses to your

client

(ResponseBuilder)

Increase the

performance of your

services by leveraging

HTTP caching protocols

Deploy and integrate

web services within

Java EE7, servlet

containers, EJB, Spring,

and JPA Learn popular

mechanisms to

perform authentication

on the Web, including

client-side SSL and

OAuth 2.0

*RESTful Java with JAX-  
RS* Apress  
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.

*Java Web Services: Up and Running* Packt Publishing Ltd

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

**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.