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MySQL for Python Jul 18 2020 This is a practical, tutorial-style book that includes many examples to demonstrate the full potential of MySQL for Python. Every chapter starts with an explanation of the various areas for using MySQL for Python and ends with work on a sample application using the programming calls just learned. All complicated concepts are broken down to be very easy to understand. Everything in the book is designed to help you learn and use MySQL for Python to address your programming needs in the fastest way possible. This book is meant for intermediate users of Python who want hassle-free access to their MySQL database through Python. If you are a Python programmer who wants database-support in your Python applications, then this book is for you. This book is a must-read for every focused user of the MySQL for Python library who wants real-world applications using this powerful combination of Python and MySQL.

Introduction to Tornado Apr 07 2022 Walk through the basics of Tornado, the high-performance web server known for its speed, simplicity, and scalability on projects large and small. With this hands-on guide, you'll learn how to use Tornado's acclaimed features by working with several example applications. You also get best practices for using Tornado in the real world. Are you interested in creating a scalable social application, real-time analytics engine, or RESTful API—all with the power and simplicity of Python? This book shows you why Tornado is fantastic choice for writing powerful applications that are simple to create, extend, and deploy. Learn how to use Tornado's lightweight and flexible templating language Extend templates to repurpose headers, footers, layout grids, and other content Use persistent storage like MongoDB to store, serve, and edit dynamic content Explore Tornado's ability to make asynchronous web requests Secure your application against cookie and request vulnerabilities Authenticate with external services, using Tornado's auth module Adopt deployment strategies that help harden your application and increase request throughput

The Definitive Guide to Jython Aug 19 2020 Jython is an open source implementation of the high-level, dynamic, object-oriented scripting language Python seamlessly integrated with the Java platform. The predecessor to Jython, JPython, is certified as 100% Pure Java. Jython is freely available for both commercial and noncommercial use and is distributed with source code. Jython is complementary to Java. The Definitive Guide to Jython, written by the official Jython team leads, covers Jython 2.5 (or 2.5.x)—from the basics to more advanced features. This book begins with a brief introduction to the language and then journeys through Jython's different features and uses. The Definitive Guide to Jython is organized for beginners as well as advanced users of the language. The book provides a general overview of the Jython language itself, but it also includes intermediate and advanced topics regarding database, web, and graphical user interface (GUI) applications; Web services/SOA; and integration, concurrency, and parallelism, to name a few.

Django RESTful Web Services Mar 18 2023 Django is a Python web framework that makes the web development process very easy. It reduces the amount of trivial code that simplifies the creation of web applications and results in faster development. It is a very powerful and a great choice for creating RESTful web services. If you are a python developer who wants to create RESTful web ...

Building RESTful Python Web Services Apr 19 2023 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 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. 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 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, and this book will show you the best tools you can use to build your own web services. This book will show you how to develop RESTful APIs using the popular Python frameworks and all the necessary stacks with Python, Django, Flask, Pyramid, 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.

Building RESTful Python Web Services with Django Oct 21 2020 "Python is the language of choice for millions of developers worldwide, due to its gentle learning curve and its vast applications in day-to-day programming. It builds great and reliable web services in the RESTful architecture. This video will show you the best tools you can use to build your own Python web services. You'll start by learning how to develop RESTful APIs using the Django framework combined with related libraries and tools. We'll delve into the Django framework to build various web services. We'll show you everything you need to successfully develop RESTful APIs with the Django framework such as request handling, URL mapping, serialization, validation, authentication, authorization, and databases. By the end of the video, you'll have a deep understanding of the stacks needed to build RESTful web services."--Resource description page.

Django 2 Web Development Cookbook Jan 04 2022 Django is a framework designed to balance rapid web development with high performance. It handles high levels of user traffic and interaction, integrates with a variety of databases, and collects and processes data in real time. This book follows a task-based approach to guide you through developing with the Django 2.1 framework, starting with ...

RESTful Web Services Jun 09 2022 "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.

Python Basics Dec 03 2021 Make the Leap From Beginner to Intermediate in Python... Python Basics: A Practical Introduction to Python 3 Your Complete Python Curriculum-With Exercises, Interactive Quizzes, and Sample Projects What should you learn about Python in the beginning to get a strong foundation? With Python Basics, you'll not only cover the core concepts you really need to know, but you'll also learn them in the most efficient order with the help of practical exercises and interactive quizzes. You'll know enough to be dangerous with Python, fast! Who Should Read This Book If you're new to Python, you'll get a practical, step-by-step roadmap on developing your foundational skills. You'll be introduced to each concept and language feature in a logical order. Every step in this curriculum is explained and illustrated with short, clear code samples. Our goal with this book is to educate, not to impress or intimidate. If you're familiar with some basic programming concepts, you'll get a clear and well-tested introduction to Python. This is a practical introduction to Python that jumps right into the meat and potatoes without sacrificing substance. If you have prior experience with languages like VBA, PowerShell, R, Perl, C, C++, C#, Java, or Swift the numerous exercises within each chapter will fast-track your progress. If you're a seasoned developer, you'll get a Python 3 crash course that brings you up to speed with modern Python programming. Mix and match the chapters that interest you the most and use the interactive quizzes and review exercises to check your learning progress as you go along. If you're a self-starter completely new to coding, you'll get practical and motivating examples. You'll begin by installing Python and setting up a coding environment on your computer from scratch, and then continue from there. We'll get you coding right away so that you become competent and knowledgeable enough to solve real-world problems, fast. Develop a passion for programming by solving interesting problems with Python every day! If you're looking to break into a coding or data-science career, you'll pick

up the practical foundations with this book. We won't just dump a boat load of theoretical information on you so you can "sink or swim"-instead you'll learn from hands-on, practical examples one step at a time. Each concept is broken down for you so you'll always know what you can do with it in practical terms. If you're interested in teaching others "how to Python," this will be your guidebook. If you're looking to stoke the coding flame in your coworkers, kids, or relatives-use our material to teach them. All the sequencing has been done for you so you'll always know what to cover next and how to explain it. What Python Developers Say About The Book: "Go forth and learn this amazing language using this great book." - Michael Kennedy, Talk Python "The wording is casual, easy to understand, and makes the information flow well." - Thomas Wong, Pythonista "I floundered for a long time trying to teach myself. I slogged through dozens of incomplete online tutorials. I snoozed through hours of boring screencasts. I gave up on countless crufty books from big-time publishers. And then I found Real Python. The easy-to-follow, step-by-step instructions break the big concepts down into bite-sized chunks written in plain English. The authors never forget their audience and are consistently thorough and detailed in their explanations. I'm up and running now, but I constantly refer to the material for guidance." - Jared Nielsen, Pythonista

Foundations of Python Network Programming Nov 21 2020 * Covers low-level networking in Python —essential for writing a new networked application protocol. * Many working examples demonstrate concepts in action -- and can be used as starting points for new projects. * Networked application security is demystified. * Exhibits and explains multitasking network servers using several models, including forking, threading, and non-blocking sockets. * Features extensive coverage of Web and E-mail. Describes Python's database APIs.

Architecture Patterns with Python Mar 26 2021 As Python continues to grow in popularity, projects are becoming larger and more complex. Many Python developers are now taking an interest in high-level software design patterns such as hexagonal/clean architecture, event-driven architecture, and the strategic patterns prescribed by domain-driven design (DDD). But translating those patterns into Python isn't always straightforward. With this hands-on guide, Harry Percival and Bob Gregory from MADE.com introduce proven architectural design patterns to help Python developers manage application complexity—and get the most value out of their test suites. Each pattern is illustrated with concrete examples in beautiful, idiomatic Python, avoiding some of the verbosity of Java and C# syntax. Patterns include: Dependency inversion and its links to ports and adapters (hexagonal/clean architecture) Domain-driven design's distinction between entities, value objects, and aggregates Repository and Unit of Work patterns for persistent storage Events, commands, and the message bus Command-query responsibility segregation (CQRS) Event-driven architecture and reactive microservices

Hands-On RESTful Python Web Services - Second Edition Sep 19 2020 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. Downloading the example code ...

Django for APIs Aug 11 2022 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.

RESTful Web Services - the Python Flask Way Nov 02 2021 RESTful Web services are the backbone of any web application architecture, and if you are developing any web application for all the platforms including mobile apps, then you must design your app incorporating RESTful web services. People are not only getting good jobs on the basis of Python Web Development skills but also becoming Entrepreneur and creating their own Products using Python and its Web frameworks. Artificial Intelligence is emerging as a new era in Software development and Python is the rock star language in the same dimension, almost all the complex topics of AI has been simplified and implemented with Python and its scientific Libraries.

Django 3 By Example - Third Edition Apr 14 2020 Learn Django 3 with four end-to-end web projects

Key Features

Learn Django 3 by building real-world web applications from scratch in Python, using coding best practices

Integrate other technologies into your application with clear, step-by-step explanations and comprehensive example code

Implement advanced functionalities like a full-text search engine, a user activity stream, or a recommendation engine

Add real-time features with Django Channels and WebSockets

Book Description

If you want to learn the entire process of developing professional web applications with Python and Django, then this book is for you. In the process of building four professional Django projects, you will learn about Django 3 features, how to solve common web development problems, how to implement best practices, and how to successfully deploy your applications. In this book, you will build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Step-by-step guidance will teach you how to integrate popular technologies, enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. By the end of this book, you will have mastered Django 3 by building advanced web applications. What you will learn

Build real-world web applications

Learn Django essentials, including models, views, ORM, templates, URLs, forms, and authentication

Implement advanced features such as custom model fields, custom template tags, cache, middleware, localization, and more

Create complex functionalities, such as AJAX interactions, social authentication, a full-text search engine, a payment system, a CMS, a RESTful API, and more

Integrate other technologies, including Redis, Celery, RabbitMQ, PostgreSQL, and Channels, into your projects

Deploy Django projects in production using NGINX, uWSGI, and Daphne

Who this book is for

This book is intended for

developers with Python knowledge who wish to learn Django in a pragmatic way. Perhaps you are completely new to Django, or you already know a little but you want to get the most out of it. This book will help you to master the most relevant areas of the framework by building practical projects from scratch. You need to have familiarity with programming concepts in order to read this book. Some previous knowledge of HTML and JavaScript is assumed.

Building Serverless Python Web Services with Zappa Nov 14 2022 Master serverless architectures in Python and their implementation, with Zappa on three different frameworks. Key Features Scalable serverless Python web services using Django, Flask, and Pyramid. Learn Asynchronous task execution on AWS Lambda and scheduling using Zappa. Implementing Zappa in a Docker container. Book Description Serverless applications are becoming very popular these days, not just because they save developers the trouble of managing the servers, but also because they provide several other benefits such as cutting heavy costs and improving the overall performance of the application. This book will help you build serverless applications in a quick and efficient way. We begin with an introduction to AWS and the API gateway, the environment for serverless development, and Zappa. We then look at building, testing, and deploying apps in AWS with three different frameworks--Flask, Django, and Pyramid. Setting up a custom domain along with SSL certificates and configuring them with Zappa is also covered. A few advanced Zappa settings are also covered along with securing Zappa with AWS VPC. By the end of the book you will have mastered using three frameworks to build robust and cost-efficient serverless apps in Python. What you will learn Build, test, and deploy a simple web service using AWS CLI Integrate Flask-based Python applications, via AWS CLI configuration Design Rest APIs integrated with Zappa for Flask and Django Create a project in the Pyramid framework and configure it with Zappa Generate SSL Certificates using Amazon Certificate Manager Configure custom domains with AWS Route 53 Create a Docker container similar to AWS Lambda Who this book is for Python Developers who are interested in learning how to develop fast and highly scalable serverless applications in Python, will find this book useful

Building RESTful Python Web Services Jul 22 2023 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.

Flask By Example Jun 28 2021 Unleash the full potential of the Flask web framework by creating simple yet powerful web applications About This Book The most up-to-date book on Flask on the market Create your own world-class applications and master the art of Flask by unravelling its enigma through this journey This step-by-step tutorial is packed with examples on blending different technologies with Flask to get you up and running Who This Book Is For Have you looked at PHP and hated the clunky bloated syntax? Or looked at .Net and wished it was more open and flexible? Maybe you've tried your hand at GUI libraries in Python and found them hard to use? If your answer to any one of these questions is a yes, then this is just the book for you. It is also intended for people who know the basics of Python and want to learn how to use it to build powerful solutions with a web front-end. What You Will Learn Build three web applications from the ground up using the powerful Python micro framework, Flask. Dynamically display data to your viewers, based on their requests Store user and static data in SQL and NoSQL databases and use this data to power your web applications Create a good user experience by combining HTML, CSS, and JavaScript Harness the convenience of freely available APIs, including OpenWeatherMap, Open Exchange Rates, and bitly Extend your applications to build advanced functionality, such as a user account control system using Flask-Login Learn about web application security and defend against common attacks, such as SQL injection and XSS In Detail This book will take you on a journey from learning about web development using Flask to building fully functional web applications. In the first major project, we develop a dynamic Headlines application that displays the latest news headlines along with up-to-date currency and weather information. In project two, we build a Crime Map application that is backed by a MySQL database, allowing users to submit information on and the location of crimes in order to plot danger zones and other crime trends within an area. In the final project, we combine Flask with more modern technologies, such as Twitter's Bootstrap and the NoSQL database MongoDB, to create a Waiter Caller application that allows restaurant patrons to easily call a waiter to their table. This pragmatic tutorial will keep you engaged as you learn the crux of Flask by working on challenging real-world applications. Style and approach This book will provide you with rich, practical experience of Flask. Every technology, that is employed along with Flask is comprehensively introduced, while the book focusses on developing web applications. Pointers to educational material are always given if you want to gain in-depth knowledge of the various technologies used.

Data Wrangling with Python Jul 30 2021 How do you take your data analysis skills beyond Excel to the next level? By learning just enough Python to get stuff done. This hands-on guide shows non-programmers like you how to process information that's initially too messy or difficult to access. You don't need to know a thing about the Python programming language to get started. Through various step-by-step exercises, you'll learn how to acquire, clean, analyze, and present data efficiently. You'll also discover how to automate your data process, schedule file- editing and clean-up tasks, process larger datasets, and create compelling stories with data you obtain. Quickly learn basic Python syntax, data types, and language concepts Work with both machine-readable and human-consumable data Scrape websites and APIs to find a bounty of useful information Clean and format data to eliminate duplicates and errors in your datasets Learn when to standardize data and when to test and script data cleanup Explore and analyze your datasets with new Python libraries and techniques Use Python solutions to automate your entire data-wrangling process

Python and AWS Cookbook Dec 23 2020 If you intend to use Amazon Web Services (AWS) for remote computing and storage, Python is an ideal programming language for developing applications and controlling your cloud-based infrastructure. This cookbook gets you started with more than two dozen recipes for using Python with AWS, based on the author's boto library. You'll find detailed recipes for working with the S3 storage

service as well as EC2, the service that lets you design and build cloud applications. Each recipe includes a code solution you can use immediately, along with a discussion of why and how the recipe works. You also get detailed advice for using boto with AWS and other cloud services. This book's recipes include methods to help you: Launch instances on EC2, and keep track of them with tags Associate an Elastic IP address with an instance Restore a failed Elastic Block Store volume from a snapshot Store and monitor your own custom metrics in CloudWatch Create a bucket in S3 to contain your data objects Reduce the cost of storing noncritical data Prevent accidental deletion of data in S3

Django 3 Web Development Cookbook May 28 2021 Practical recipes for building fast, robust, and secure web apps using Django 3 and Python Key Features Explore the latest version of Django, and learn effectively with the help of practical examples Follow a task-based approach to develop professional web apps using Django and Python Learn to deploy, scale, and secure apps using Docker and Amazon Web Services(AWS) Book Description Django is a web framework for perfectionists with deadlines, designed to help you build manageable medium and large web projects in a short time span. This fourth edition of Django Web Development Cookbook is updated with Django 3's latest features to guide you effectively through the development process. This Django book starts by helping you create a virtual environment and project structure for building Python web apps. You'll learn how to build models, views, forms, and templates for your web apps and then integrate JavaScript in your Django apps to add more features. As you advance, you'll create responsive multilingual websites, ready to be shared on social networks. The book will take you through uploading and processing images, rendering data in HTML5, PDF, and Excel, using and creating APIs, and navigating different data types in Django. You'll become well-versed in security best practices and caching techniques to enhance your website's security and speed. This edition not only helps you work with the PostgreSQL database but also the MySQL database. You'll also discover advanced recipes for using Django with Docker and Ansible in development, staging, and production environments. By the end of this book, you will have become proficient in using Django's powerful features and will be equipped to create robust websites. What you will learn Discover how to set the basic configurations to start any Django project Understand full-stack web application development using Django Build a database structure using reusable model mixins Implement security, performance, and deployment features in your web apps Import data from local sources and external web services and export it to your app Secure web applications against malicious usage and find and fix common performance bottlenecks Who this book is for This Django book is for Python web developers who want to build fast and secure web apps that can scale over time. You'll also find this book useful if you want to upgrade to the latest Django framework. Knowledge of Python 3, along with a basic understanding of the Django framework will help you make the most of this book.

CRAFTING PYTHON REST APIS WITH FLASK Feb 05 2022

Python Microservices Development May 16 2020 A practical approach to conquering the complexities of Microservices using the Python tooling ecosystem About This Book A very useful guide for Python developers who are shifting to the new microservices-based development A concise, up-to-date guide to building efficient and lightweight microservices in Python using Flask, Tox, and other tools Learn to use Docker containers, CoreOS, and Amazon Web Services to deploy your services Who This Book Is For This book is for developers who have basic knowledge of Python, the command line, and HTTP-based application principles, and those who want to learn how to build, test, scale, and manage Python 3 microservices. No prior experience of writing microservices in Python is assumed. What You Will Learn Explore what microservices are and how to design them Use Python 3, Flask, Tox, and other tools to build your services using best practices Learn how to use a TDD approach Discover how to document your microservices Configure and package your code in the best way Interact with other services Secure, monitor, and scale your services Deploy your services in Docker containers, CoreOS, and Amazon Web Services In Detail We often deploy our web applications into the cloud, and our code needs to interact with many third-party services. An efficient way to build applications to

do this is through microservices architecture. But, in practice, it's hard to get this right due to the complexity of all the pieces interacting with each other. This book will teach you how to overcome these issues and craft applications that are built as small standard units, using all the proven best practices and avoiding the usual traps. It's a practical book: you'll build everything using Python 3 and its amazing tooling ecosystem. You will understand the principles of TDD and apply them. You will use Flask, Tox, and other tools to build your services using best practices. You will learn how to secure connections between services, and how to script Nginx using Lua to build web application firewall features such as rate limiting. You will also familiarize yourself with Docker's role in microservices, and use Docker containers, CoreOS, and Amazon Web Services to deploy your services. This book will take you on a journey, ending with the creation of a complete Python application based on microservices. By the end of the book, you will be well versed with the fundamentals of building, designing, testing, and deploying your Python microservices. Style and approach This book is an linear, easy-to-follow guide on how to best design, write, test, and deploy your microservices. It includes real-world examples that will help Python developers create their own Python microservice using the most efficient methods.

Mastering Flask Web Development Feb 17 2023 Learn to build modern, secure, highly available web MVC applications and API's using Python's Flask framework. Key Features Create production-ready MVC and REST API with the dynamic features of Flask Utilize the various extensions like Flask-JWT and Flask-SQLAlchemy to develop powerful applications Deploy your flask application on real-world platforms like AWS and Heroku on VM's or Docker containers Book Description Flask is a popular Python framework known for its lightweight and modular design. Mastering Flask Web Development will take you on a complete tour of the Flask environment and teach you how to build a production-ready application. You'll begin by learning about the installation of Flask and basic concepts such as MVC and accessing a database using an ORM. You will learn how to structure your application so that it can scale to any size with the help of Flask Blueprints. You'll then learn how to use Jinja2 templates with a high level of expertise. You will also learn how to develop with SQL or NoSQL databases, and how to develop REST APIs and JWT authentication. Next, you'll move on to build role-based access security and authentication using LDAP, OAuth, OpenID, and database. Also learn how to create asynchronous tasks that can scale to any load using Celery and RabbitMQ or Redis. You will also be introduced to a wide range of Flask extensions to leverage technologies such as cache, localization, and debugging. You will learn how to build your own Flask extensions, how to write tests, and how to get test coverage reports. Finally, you will learn how to deploy your application on Heroku and AWS using various technologies, such as Docker, CloudFormation, and Elastic Beanstalk, and will also learn how to develop Jenkins pipelines to build, test, and deploy applications. What you will learn Develop a Flask extension using best practices Implement various authentication methods: LDAP, JWT, Database, OAuth, and OpenID Learn how to develop role-based access security and become an expert on Jinja2 templates Build tests for your applications and APIs Install and configure a distributed task queue using Celery and RabbitMQ Develop RESTful APIs and secure REST API's Deploy highly available applications that scale on Heroku and AWS using Docker or VMs Who this book is for The ideal target audience for this book would be Python developers who want to use Flask and its advanced features to create Enterprise grade and lightweight applications. The book is for those who have some exposure of Flask and want to take it from introductory to master level.

Flask Jul 10 2022 Unleash the full potential of the Flask web framework by creating small to large and powerful web applications About This Book Create your own world-class applications and master the art of Flask by unravelling its enigma through this journey Packed with recipes containing lots of sample applications to help you understand the intricacies of Flask web programming Work with scalable Flask application structures to create complex web apps Who This Book Is For This learning path is ideal developers who know the basics of Python and want to learn how to use the Flask framework to build powerful web solutions in Python. What You Will Learn Build three web applications from the ground up using the powerful Python micro framework, Flask. Extend your applications to build advanced functionality, such as a user account

control system using Flask-Login Learn about web application security and defend against common attacks, such as SQL injection and XSS Integrate with technologies like Redis, Sentry, MongoDB and so on Build applications with integrations to most of the login mechanisms available Don't just stop at development. Learn about deployment and post-deployment Use SQLAlchemy to programmatically query a database Develop a custom Flask extension In Detail Are you a fan of Python? Want to use it to create powerful web applications? Then Flask is the perfect choice for you. This course will take you through the intricacies of the Flask Microframework, covering all it's components and elements and how to integrate it with useful third party libraries. Dive deep into what Flask has to offer and then you will create multiple Python apps from scratch on your own. The first module will introduce you to web development using Flask to building fully functional web applications. Hands-on and pragmatic, this tutorial goes right to the crux of Flask by showing you how to build challenging real-world applications. The second module introduces you to a number of recipes that will help you understand the power of Flask and its extensions. Start by seeing the different configurations that a Flask application can make use of. By the end of this module, you will have gained all the knowledge required to write Flask applications in the best possible way, and scale them with best practices. The final module will walk you through advanced Flask topics while providing practical examples of for all your lessons learned. The module closes with a discussion of the differe ...

Mastering Python for Web Sep 12 2022 Python for Web Python definitely tops the charts when it comes to ease of use and beginner-friendly learning curve in the world of programming languages. At the same time, Python is essential when it comes to writing system scripts, processing big data, performing mathematical computations, creating web applications, and rapid prototyping. With this Mastering edition, we have focused especially on the usage of Python for Web. This book explores Python programming fundamentals with interactive projects and introduces core coding concepts and the basics of Python-based web development. The reader should be ready to dive deep into the world of Python for web development in no time. Since Python positions itself in web development as a back-end language, it is usually mixed with another front-end language to build a whole website. At the same time, reasons for using Python in web development are many: it is a flexible, versatile, and highly efficient programming language with dynamic typing capacity. This book helps readers to examine Python's key back-end/front-end programming techniques and guides them through implementing them when creating professional projects. Furthermore, it also focuses on teaching readers how to solve common problems and developing web services with Python frameworks such as Django and Flask. Mastering Python for Web has a goal more ambitious than simply teaching you the ropes – it aims to help you embrace and master problem solving, which could be viewed as the single most crucial skill for a coder. It offers you a focal point on starting as a beginner and growing into an expert by putting your newly acquired knowledge into practice. Programming is a hands-on skill, and this particular book helps you put your skills to test with easy-to-grasp tasks and examples. Learn more about our other Mastering titles at: <https://www.routledge.com/Mastering-Computer-Science/book-series/MCS>

Building REST APIs with Flask Aug 23 2023 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.

Python for Everybody Aug 31 2021 Python for Everybody is designed to introduce students to programming and software development through the lens of exploring data. You can think of the Python programming language as your tool to solve data problems that are beyond the capability of a spreadsheet. Python is an easy to use and easy to learn programming language that is freely available on Macintosh, Windows, or Linux computers. So once you learn Python you can use it for the rest of your career without needing to purchase any software. This book uses the Python 3 language. The earlier Python 2 version of this book is titled "Python for Informatics: Exploring Information". There are free downloadable electronic copies of this book in various formats and supporting materials for the book at www.pythonlearn.com. The course materials are available to you under a Creative Commons License so you can adapt them to teach your own Python course.

Python Web Development with Sanic Oct 01 2021 Build a performant and scalable web application using Sanic, along with maintaining clean code to fit your unique challenges and business requirements Key Features Expand your knowledge of web application architecture for building scalable web apps Learn the core philosophies of performance and scalability from one of the creators of Sanic Create a complete Python web app from scratch and learn to translate the knowledge you gain across various use cases Book Description Today's developers need something more powerful and customizable when it comes to web app development. They require effective tools to build something unique to meet their specific needs, and not simply glue a bunch of things together built by others. This is where Sanic comes into the picture. Built to be unopinionated and scalable, Sanic is a next-generation Python framework and server tuned for high performance. This Sanic guide starts by helping you understand Sanic's purpose, significance, and use cases. You'll learn how to spot different issues when building web applications, and how to choose, create, and adapt the right solution to meet your requirements. As you progress, you'll understand how to use listeners, middleware, and background tasks to customize your application. The book will also take you through real-world examples, so you will walk away with practical knowledge and not just code snippets. By the end of this web development book, you'll have gained the knowledge you need to design, build, and deploy high-performance, scalable, and maintainable web applications with the Sanic framework. What you will learn Understand the difference between WSGI, Async, and ASGI servers Discover how Sanic organizes incoming data, why it does it, and how to make the most of it Implement best practices for building reliable, performant, and secure web apps Explore useful techniques for successfully testing and deploying a Sanic web app Create effective solutions for the modern web, including task management, bot integration, and GraphQL Identify security concerns and understand how to deal with them in your Sanic apps Who this book is for This book is for Python web developers who have basic to intermediate-level knowledge of how web technologies work and are looking to take their applications to the next level using the power of the Sanic framework. Working knowledge of Python web development along with frameworks such as Django and/or Flask will be helpful but is not required. A basic to intermediate-level understanding of Python 3, HTTP, RESTful API patterns, and modern development practices and tools, such as type annotations, pytest, and virtual environments will also be beneficial.

Microservice APIs Apr 26 2021 Strategies, best practices, and patterns that will help you design resilient microservices architecture and streamline your API integrations. In Microservice APIs, you'll discover: Service decomposition strategies for microservices Documentation-driven development for APIs Best practices for designing REST and GraphQL APIs Documenting REST APIs with the OpenAPI specification (formerly Swagger) Documenting GraphQL APIs using the Schema Definition Language Building microservices APIs with Flask, FastAPI, Ariadne, and other frameworks Service implementation patterns for loosely coupled services Property-based testing to validate your APIs, and using

automated API testing frameworks like schemathesis and Dredd Adding authentication and authorization to your microservice APIs using OAuth and OpenID Connect (OIDC) Deploying and operating microservices in AWS with Docker and Kubernetes Microservice APIs teaches you practical techniques for designing robust microservices with APIs that are easy to understand, consume, and maintain. You'll benefit from author José Haro Peralta's years of experience experimenting with microservices architecture, dodging pitfalls and learning from mistakes he's made. Inside you'll find strategies for delivering successful API integrations, implementing services with clear boundaries, managing cloud deployments, and handling microservices security. Written in a framework-agnostic manner, its universal principles can easily be applied to your favorite stack and toolset. About the technology Clean, clear APIs are essential to the success of microservice applications. Well-designed APIs enable reliable integrations between services and help simplify maintenance, scaling, and redesigns. This book teaches you the patterns, protocols, and strategies you need to design, build, and deploy effective REST and GraphQL microservices APIs. About the book Microservice APIs gathers proven techniques for creating and building easy-to-consume APIs for microservices applications. Rich with proven advice and Python-based examples, this practical book focuses on implementation over philosophy. You'll learn how to build robust microservice APIs, test and protect them, and deploy them to the cloud following principles and patterns that work in any language. What's inside Service decomposition strategies for microservices Best practices for designing and building REST and GraphQL APIs Service implementation patterns for loosely coupled components API authorization with OAuth and OIDC Deployments with AWS and Kubernetes About the reader For developers familiar with the basics of web development. Examples are in Python. About the author José Haro Peralta is a consultant, author, and instructor. He's also the founder of microapis.io. Table of Contents PART 1 INTRODUCING MICROSERVICE APIS 1 What are microservice APIs? 2 A basic API implementation 3 Designing microservices PART 2 DESIGNING AND BUILDING REST APIS 4 Principles of REST API design 5 Documenting REST APIs with OpenAPI 6 Building REST APIs with Python 7 Service implementation patterns for microservices PART 3 DESIGNING AND BUILDING GRAPHQL APIS 8 Designing GraphQL APIs 9 Consuming GraphQL APIs 10 Building GraphQL APIs with Python PART 4 SECURING, TESTING, AND DEPLOYING MICROSERVICE APIS 11 API authorization and authentication 12 Testing and validating APIs 13 Dockerizing microservice APIs 14 Deploying microservice APIs with Kubernetes

Programming Web Services with XML-RPC Jan 24 2021 Have you ever needed to share processing between two or more computers running programs written in different languages on different operating systems? Or have you ever wanted to publish information on the Web so that programs other than browsers could work with it? XML-RPC, a system for remote procedure calls built on XML and the ubiquitous HTTP protocol, is the solution you've been looking for. Programming Web Services with XML-RPC introduces the simple but powerful capabilities of XML-RPC, which lets you connect programs running on different computers with a minimum of fuss, by wrapping procedure calls in XML and establishing simple pathways for calling functions. With XML-RPC, Java programs can talk to Perl scripts, which can talk to Python programs, ASP applications, and so on. You can provide access to procedure calls without having to worry about the system on the other end, so it's easy to create services that are available on the Web. XML-RPC isn't the only solution for web services; the Simple Object Access Protocol (SOAP) is another much-hyped protocol for implementing web services. While XML-RPC provides fewer capabilities than SOAP, it also has far fewer interoperability problems and its capabilities and limitations are much better understood. XML-RPC is also stable, with over 30 implementations on a wide variety of platforms, so you can start doing real work with it immediately. Programming Web Services with XML-RPC covers the details of five XML-RPC implementations, so you can get started developing distributed applications in Java, Perl, Python, ASP, or PHP. The chapters on these implementations contain code examples that you can use as the basis for your own work. This book also provides in-depth coverage of the XML-RPC specification, which is helpful for low-level debugging of XML-RPC clients and servers. And if you want to build your own XML-RPC

implementation for another environment, the detailed explanations in this book will serve as a foundation for that work.

Building RESTful Python Web Services with Flask Feb 22 2021 "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 builds great web services in the RESTful architecture. This video 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 and Flask, combined with related libraries and tools. We will delve into the framework for building various web services. We will show you everything required to successfully develop RESTful APIs with the Flask framework, such as request handling, URL mapping, serialization, validation, authentication, authorization, versioning, databases, and asynchronous callbacks. At the end of the framework, we will add authentication and security to the RESTful APIs and prepare tests for them. By the end of the video, you will have a deep understanding of the stacks needed to build RESTful web services."--Resource description page.

Flask Web Development Mar 06 2022 Take full creative control of your web applications with Flask, the Python-based microframework. With the second edition of this hands-on book, you'll learn the framework from the ground up by developing, step-by-step, a real-world project created by author Miguel Grinberg. This refreshed edition accounts for important technology changes that have occurred in the past three years. You'll learn the framework's core functionality, as well as how to extend applications with advanced web techniques such as database migration and web service communication. The first part of each chapter provides you with reference and background for the topic in question, while the second part guides you through a hands-on implementation of the topic. If you have Python experience, this book shows you how to take advantage of the creative freedom Flask provides.

Python API Development Fundamentals Jun 21 2023 Learn all that's needed to build a fully functional web application from scratch. Key Features Delve deep into the principle behind RESTful API Learn how to build a scalable web application with the RESTful API architecture and Flask framework Know what are the exact tools and methodology to test your applications and how to use them Book Description Python is a flexible language that can be used for much more than just script development. By knowing the Python RESTful APIs work, you can build a powerful backend for web applications and mobile applications using Python. You'll take your first steps by building a simple API and learning how the frontend web interface can communicate with the backend. You'll also learn how to serialize and deserialize objects using the marshmallow library. Then, you'll learn how to authenticate and authorize users using Flask-JWT. You'll also learn how to enhance your APIs by adding useful features, such as email, image upload, searching, and pagination. You'll wrap up the whole book by deploying your APIs to the cloud. By the end of this book, you'll have the confidence and skill to leverage the power of RESTful APIs and Python to build efficient web applications. What you will learn Understand the concept of a RESTful API Build a RESTful API using Flask and the Flask-Restful extension Manipulate a database using Flask-SQLAlchemy and Flask-Migrate Send out plaintext and HTML format emails using the Mailgun API Implement a pagination function using Flask-SQLAlchemy Use caching to improve API performance and efficiently obtain the latest information Deploy an application to Heroku and test it using Postman Who this book is for This book is ideal for aspiring software developers who have a basic-to-intermediate knowledge of Python programming and who want to develop web applications using Python. Knowledge of how web applications work will be beneficial but is not essential.

Building Python Web APIs with FastAPI Jan 16 2023 Discover FastAPI features and best practices for building and deploying high-quality web APIs from scratch Key Features • A practical guide to developing production-ready web APIs rapidly in Python • Learn how to put FastAPI into practice by implementing it in real-world scenarios • Explore FastAPI, its syntax, and configurations for deploying applications Book Description RESTful web services are commonly used to create APIs for web-based applications owing to their light weight and high scalability. This book will

show you how FastAPI, a high-performance web framework for building RESTful APIs in Python, allows you to build robust web APIs that are simple and intuitive and makes it easy to build quickly with very little boilerplate code. This book will help you set up a FastAPI application in no time and show you how to use FastAPI to build a REST API that receives and responds to user requests. You'll go on to learn how to handle routing and authentication while working with databases in a FastAPI application. The book walks you through the four key areas: building and using routes for create, read, update, and delete (CRUD) operations; connecting the application to SQL and NoSQL databases; securing the application built; and deploying your application locally or to a cloud environment. By the end of this book, you'll have developed a solid understanding of the FastAPI framework and be able to build and deploy robust REST APIs. What you will learn

- Set up a FastAPI application that is fully functional and secure
- Understand how to handle errors from requests and send proper responses in FastAPI
- Integrate and connect your application to a SQL and NoSQL (MongoDB) database
- Perform CRUD operations using SQL and FastAPI
- Manage concurrency in FastAPI applications
- Implement authentication in a FastAPI application
- Deploy a FastAPI application to any platform

Who this book is for This book is for Python developers who want to learn FastAPI in a pragmatic way to create robust web APIs with ease. If you are a Django or Flask developer looking to try something new that's faster, more efficient, and produces fewer bugs, this FastAPI Python book is for you. The book assumes intermediate-level knowledge of Python programming.

Python Requests Essentials Jun 16 2020 If you are a Python administrator or developer interested in interacting with web APIs and have a passion for creating your own web applications, this is the book for you. Basic knowledge of Python programming, APIs, and web services will be an advantage.

Web Scraping with Python May 08 2022 Learn web scraping and crawling techniques to access unlimited data from any web source in any format. With this practical guide, you'll learn how to use Python scripts and web APIs to gather and process data from thousands—or even millions—of web pages at once. Ideal for programmers, security professionals, and web administrators familiar with Python, this book not only teaches basic web scraping mechanics, but also delves into more advanced topics, such as analyzing raw data or using scrapers for frontend website testing. Code samples are available to help you understand the concepts in practice. Learn how to parse complicated HTML pages

Traverse multiple pages and sites
Get a general overview of APIs and how they work
Learn several methods for storing the data you scrape
Download, read, and extract data from documents
Use tools and techniques to clean badly formatted data
Read and write natural languages
Crawl through forms and logins
Understand how to scrape JavaScript
Learn image processing and text recognition

Building Versatile Mobile Apps with Python and REST Dec 15 2022 Develop versatile iOS apps using Python with RESTful web services. This book will show you how to blend Django, a high-level Python Web framework, with Django REST, the powerful, feature-filled extension, to build iOS mobile apps. Using easy-to-follow examples, you'll begin by building a simple app using the RESTful Web API and iOS. You'll then work with traditional Django to create models and connect your App to the database. You'll also see how to serialize your data and create the RESTful API. The second part of the book introduces Xcode, a programming environment to develop iOS apps. Using Swift, the programming language for iOS, you'll design the actual app. Once you have your back-end in Django and a front-end in Swift, you'll connect them using our RESTful API. This will allow you to log in, browse places of interest, and rate them and leave comments. Guided by step-by-step instructions, Building Versatile Mobile Apps with Python and REST will demonstrate how easy it is to use Python to develop iOS applications. You will: Build Create-Read-Update-Delete functionality using RESTful Web Services ; Incorporate marketing into the design of iOS apps to stand out in the App Store ; Deploy your app to a live server and add it to Apple app store .

Learn Web Development with Python Oct 13 2022 A comprehensive guide to Python programming for web development using the most popular

Python web framework - Django Key Features Learn the fundamentals of programming with Python and building web apps Build web applications from scratch with Django Create real-world RESTful web services with the latest Django framework Book Description If you want to develop complete Python web apps with Django, this Learning Path is for you. It will walk you through Python programming techniques and guide you in implementing them when creating 4 professional Django projects, teaching you how to solve common problems and develop RESTful web services with Django and Python. You will learn how to build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Learn Web Development with Python will get you started with Python programming techniques, show you how to enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. Last but not least, you'll learn the best practices for creating real-world applications. By the end of this Learning Path, you will have a full understanding of how Django works and how to use it to build web applications from scratch. This Learning Path includes content from the following Packt products: Learn Python Programming by Fabrizio Romano Django RESTful Web Services by Gastón C. Hillar Django Design Patterns and Best Practices by Arun Ravindran What you will learn Explore the fundamentals of Python programming with interactive projects Grasp essential coding concepts along with the basics of data structures and control flow Develop RESTful APIs from scratch with Django and the Django REST Framework Create automated tests for RESTful web services Debug, test, and profile RESTful web services with Django and the Django REST Framework Use Django with other technologies such as Redis and Celery Who this book is for If you have little experience in coding or Python and want to learn how to build full-fledged web apps, this Learning Path is for you. No prior experience with RESTful web services, Python, or Django is required, but basic Python programming experience is needed to understand the concepts covered.

Hands-On RESTful Python Web Services May 20 2023 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.