Guide Rest Api Concepts And Programmers

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REST API Development with Node.js - Fernando Doglio 2018-07-19
Manage and understand the full capabilities of successful REST development. REST API development is a hot topic in the programming world, but not many resources exist for developers to really understand how you can leverage the advantages. This completely updated second edition provides a brief background on REST and the tools it provides (well known and not so well known), then explains how there is more to REST than just JSON and URLs. You will learn about the maintained modules currently available in the npm community, including Express, Restify, Vatican, and Swagger. Finally you will code an example API from start to finish, using a subset of the

tools covered. The Node community is currently flooded with modules; some of them are published once and never updated again - cluttering the entire universe of packages. Pro REST API Development with Node.js shines light into that black hole of modules for the developers trying to create an API. Understand REST API development with Node.js using this book today. What You'll Learn Understand how REST and API development mix up with Node.js Create a scalable, technology agnostic, and uniform interface Prepare your services to be consumed by your clients Test and deploy your API Review troubleshooting techniques Who This Book Is For Any Node.js developer who wants to fully understand REST API development. Beginner and Intermediate Node.js developers who are looking to fully understand how to create RESTful microservices.

Making Money with Alexa Skills – A Developer's Guide - Matthias Biehl 2019-03-06

This is a book for developers, who not only want to learn how to develop software for Alexa but also want to make money with Alexa. Want to start a side business or a SaaS startup? Just as in the early days of mobile, when fortunes were made with mobile apps on the app store, it is now the perfect time to catch the opportunities offered by voice apps. Amazon Alexa, the voice platform with the broadest adoption, helps developers like you and me, to develop, distribute, market and monetize their Alexa Skills on the Amazon Alexa Store. Want to develop and program Alexa Skills? In this book, you learn step-by-step how to create your first Alexa Skill with the Alexa Developer Console, AWS Lambda, the Alexa CLI, and node.js with the Alexa SDK. Want to scale and grow your Alexa Software Startup? You get a deep-dive into the various ways of making money with Alexa. You learn about the business models for Alexa Skills, marketing and monetizing your Alexa Skill on and off the Alexa Store, opportunities for offering in-

skill purchases, and about programming the various purchase and payment flows. Want to build advanced Alexa Skills that users love? The book covers many advanced features of Alexa in plain English, such as account linking, audio streaming, session management and much more. You learn how to personalize your Skill with the user's data and linking the Skill to popular cloud apps, such as Spotify, Google and many more. This will help you create unique apps that stand out on the market and improve the lives of many Alexa users.

RESTful API Design - Matthias Biehl 2016-08-29 Looking for Best Practices for RESTful APIs? This book is for you! Why? Because this book is packed with practical experience on what works best for RESTful API Design. You want to design APIs like a Pro? Use API description languages to both design APIs and develop APIs efficiently. The book introduces the two most common API description languages RAML, OpenAPI, and Swagger. Your company cares about its customers? Learn API product management with a customer-centric design and development approach for APIs. Learn how to manage APIs as a product and how to follow an API-first approach. Build APIs your customers love! You want to manage the complete API lifecycle? An API development methodology is proposed to guide you through the lifecycle: API inception, API design, API development, API publication, API evolution, and maintenance. You want to build APIs right? This book shows best practices for REST design, such as the correct use of resources, URIs, representations, content types, data formats, parameters, HTTP status codes, and HTTP methods. Your APIs connect to legacy systems? The book shows best practices for connecting APIs to existing backend systems. Your APIs connect to a mesh of microservices? The book shows the principles for designing APIs for scalable, autonomous

microservices. You expect lots of traffic on your API? The book shows you how to achieve high performance, availability and maintainability. You want to build APIs that last for decades? We study API versioning, API evolution, backward- and forward-compatibility and show API design patterns for versioning. The API-University Series is a modular series of books on API-related topics. Each book focuses on a particular API topic, so you can select the topics within APIs, which are relevant for you.

Dynamics 365 Business Central Development Quick Start Guide - Stefano Demiliani 2018-08-27 Understanding the new Microsoft Extension model for development Key Features Develop solutions for Dynamics 365 Business Central Orient yourself with the new Microsoft Extension model for development Learn modern ways to develop with Dynamics 365 Business Central Book Description Microsoft Dynamics 365 Business Central is the new SaaS ERP proposition from Microsoft. This latest version has many exciting features guaranteed to make your life easier. This book is an ideal guide to Dynamics 365 Business Central and will help you get started with implementing and designing solutions for real-world scenarios. This book will take you through the fundamental topics for implementing solutions based on Dynamics 365 Business Central (on-premise and SaaS). We'll see the core topics of the new development model (based on extensions) and we'll see how to create applications with the new Microsoft ERP proposition. The book begins by explaining the basics of Dynamics 365 Business Central and the Microsoft ERP proposition. We will then cover topics such as extensions, the new modern development model of Visual studio code, sandboxes, Docker, and many others. By the end of the book, you will have learned how to debug and compile extensions and to deploy them to the cloud and on-premise.You will also

have learned how to create serverless business processes for Microsoft Dynamics 365 Business Central. What you will learn Develop solutions for Dynamics 365 Business Central Create a sandbox for extensions development (local or on cloud) Use Docker with Dynamics 365 Business Central Create extensions for Dynamics 365 Business Central Handle dependencies, translations and reporting Deploy extensions on-premise and to the cloud Create serverless processes with Dynamics 365 Business Central Understand source code management for AL Who this book is for This book is for Microsoft Dynamics 365 Business Central solution developers and architects that needs to implement solutions based on the Microsoft's ERP (on-premise and SaaS).

The Design of Web APIs - Arnaud Lauret 2019-10-08

Web APIs are everywhere, giving developers an efficient way to interact with applications, services, and data. Well-designed APIs are a joy to use; poorly-designed APIs are cumbersome, confusing, and frustrating. The Design of Web APIs is a practical, example packed guide to crafting extraordinary web APIs. Author Arnaud Lauret demonstrates fantastic design principles and techniques you can apply to both public and private web APIs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Python GUI Programming - A Complete Reference Guide - Alan D. Moore 2019-06-24

Explore Python’s GUI frameworks and create visually stunning and feature-rich applications Key FeaturesIntegrate stunning data visualizations using Tkinter Canvas and MatplotlibUnderstand the basics of 2D and 3D animation in GUI applicationsExplore PyQt’s powerful features to easily design and customize your GUI applicationsBook Description A responsive graphical user interface (GUI) helps you interact with your application, improves user

experience, and enhances the efficiency of your applications. With Python, you'll have access to elaborate GUI frameworks that you can use to build interactive GUIs that stand apart from the rest. This Learning Path begins by introducing you to Tkinter and PyQt, before guiding you through the application development process. As you expand your GUI by adding more widgets, you'll work with networks, databases, and graphical libraries that enhance its functionality. You'll also learn how to connect to external databases and network resources, test your code, and maximize performance using asynchronous programming. In later chapters, you'll understand how to use the cross-platform features of Tkinter and Qt5 to maintain compatibility across platforms. You'll be able to mimic the platform-native look and feel, and build executables for deployment across popular computing platforms. By the end of this Learning Path, you'll have the skills and confidence to design and build high-end GUI applications that can solve real-world problems. This Learning Path includes content from the following Packt products: Python GUI Programming with Tkinter by Alan D. MooreQt5 Python GUI Programming Cookbook by B. M. HarwaniWhat you will learnVisualize graphs in real time with Tkinter's animation capabilitiesUse PostgreSQL authentication to ensure data security for your applicationWrite unit tests to avoid regression when updating codeHandle different signals generated on mouse clicks using QSpinBox and slidersEmploy network concepts, internet browsing, and Google Maps in UIUse graphics rendering to implement animations in your GUIWho this book is for If you're an intermediate Python programmer looking to enhance your coding skills by writing powerful GUIs in Python using PyQT and Tkinter, this is an ideal Learning Path for you. A strong

understanding of the Python language is a must to grasp the concepts explained in this book.

CORS in Action - Monsur Hossain 2014-10-20

Summary CORS in Action introduces Cross-Origin Resource Sharing (CORS) from both the server and the client perspective. It starts with the basics: how to make CORS requests and how to implement CORS on the server. It then explores key details such as performance, debugging, and security. API authors will learn how CORS opens their APIs to a wider range of users. JavaScript developers will find valuable techniques for building rich web apps that can take advantage of APIs hosted anywhere. The techniques described in this book are especially applicable to mobile environments, where browsers are guaranteed to support CORS. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book Suppose you need to share some JSON data with another application or service. If everything is hosted on one domain, it's a snap. But if the data is on another domain, the browser's "same-origin" policy stops you cold. CORS is a new web standard that enables safe cross-domain access without complex server-side code. Mastering CORS makes it possible for web and mobile applications to share data simply and securely. CORS in Action introduces CORS from both the server and the client perspective. It starts with making and enabling CORS requests and then explores performance, debugging, and security. You'll learn to build apps that can take advantage of APIs hosted anywhere and how to write APIs that expand your products to a wider range of users. For web developers comfortable with JavaScript. No experience with CORS is assumed. What's Inside CORS from the ground up Serving and consuming cross-domain data Best practices for building CORS APIs When to use CORS alternatives like JSON-P and

proxies About the Author Monsur Hossain is an engineer at Google who has worked on API-related projects such as the Google JavaScript Client, the APIs Discovery Service, and CORS support for Google APIs. Table of Contents PART 1 INTRODUCING CORS The Core of CORS Making CORS requests PART 2 CORS ON THE SERVER Handling CORS requests Handling preflight requests Cookies and response headers Best practices PART 3 DEBUGGING CORS REQUESTS Debugging CORS requests APPENDIXES CORS reference Configuring your environment What is CSRF? Other cross-origin techniques

RESTful Web APIs - Leonard Richardson 2013-09-12

The popularity of REST in recent years has led to tremendous growth in almost-RESTful APIs that don't include many of the architecture's benefits. With this practical guide, you'll learn what it takes to design usable REST APIs that evolve over time. By focusing on solutions that cross a variety of domains, this book shows you how to create powerful and secure applications, using the tools designed for the world's most successful distributed computing system: the World Wide Web. You'll explore the concepts behind REST, learn different strategies for creating hypermedia-based APIs, and then put everything together with a step-by-step guide to designing a RESTful Web API. Examine API design strategies, including the collection pattern and pure hypermedia Understand how hypermedia ties representations together into a coherent API Discover how XMDP and ALPS profile formats can help you meet the Web API "semantic challenge" Learn close to two-dozen standardized hypermedia data formats Apply best practices for using HTTP in API implementations Create Web APIs with the JSON-LD standard and other the Linked Data approaches Understand the CoAP protocol for using REST in embedded systems

RESTful Java Web Services - Third Edition - Bogunuva

Mohanram Balachandar 2017-11-17
Master core REST concepts and create RESTful web services in JavaAbout This Book* Build efficient and secure RESTful web APIs in Java..* Design solutions to produce, consume and visualize RESTful web services using WADL, RAML, and Swagger* Familiarize the role of RESTful APIs usage in emerging technology trends like Cloud, IoT, Social Media.Who This Book Is ForIf you are a web developer with a basic understanding of the REST concepts and envisage to get acquainted with the idea of designing and developing RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must.What You Will Learn* Introduce yourself to the RESTful software architectural style and the REST API design principles* Make use of the JSR 353 API, JSR 374 API, JSR 367 API and Jackson API for JSON processing* Build portable RESTful web APIs, making use of the JAX-RS 2.1 API* Simplify API development using the Jersey and RESTEasy extension APIs* Secure your RESTful web services with various authentication and authorization mechanisms* Get to grips with the various metadata solutions to describe, produce, and consume RESTful web services* Understand the design and coding guidelines to build well-performing RESTful APIs* See how the role of RESTful web services changes with emerging technologies and trendsIn DetailRepresentational State Transfer (REST) is a simple yet powerful software architecture style to create lightweight and scalable web services. The RESTful web services use HTTP as the transport protocol and can use any message formats, including XML, JSON(widely used), CSV, and many more, which makes it easily inter-operable across different languages and platforms.This successful book is currently in its 3rd edition and has been used by

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

Practical Guide to Building an API Back End with Spring Boot - Wim Deblauwe 2019-01-15

Starting your first project with Spring Boot can be a bit daunting given the vast options that it provides. This book will guide you step-by-step along the way to be a Spring Boot hero in no time. The book covers: * Setup of your project * Security and user management for your application * Writing REST endpoints * Connecting with a database from your application * Unit and integration testing for all aspects * Writing documentation for your REST endpoints * Support file upload from your REST API

Pro RESTful APIs - Sanjay Patni 2017-03-20

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.

Software Architecture - Stefan Biffl 2021-08-25
This book constitutes the refereed proceedings of the 15th International Conference on Software Architecture, ECSA 2021, held in Sweden, in September 2021. Due to the COVID-19 pandemic, the conference was held virtually. For the Research Track, 11 full papers, presented together with 5 short papers, were carefully reviewed and selected from 58 submissions. The papers are organized in topical sections as follows: architectures for reconfigurable and self-adaptive systems; machine learning for software architecture; architectural knowledge, decisions, and rationale; architecting for quality attributes; architecture-centric source code analysis; and experiences and learnings from industrial case studies.

Modern API Development with Spring and Spring Boot - Sourabh Sharma 2021-06-25
A developer's guide to designing, testing, and securing production-ready modern APIs with the help of practical ideas to improve your application's functionality Key Features: Build resilient software for your enterprises and customers by understanding the complete API development life cycle Overcome the challenges of traditional API design by adapting to a new and evolving culture of modern API development Use Spring and

Spring Boot to develop future-proof scalable APIs Book Description: The philosophy of API development has evolved over the years to serve the modern needs of enterprise architecture, and developers need to know how to adapt to these modern API design principles. Apps are now developed with APIs that enable ease of integration for the cloud environment and distributed systems. With this Spring book, you'll discover various kinds of production-ready API implementation using REST APIs and explore async using the reactive paradigm, gRPC, and GraphQL. You'll learn how to design evolving REST-based APIs supported by HATEOAS and ETAGs and develop reactive, async, non-blocking APIs. After that, you'll see how to secure REST APIs using Spring Security and find out how the APIs that you develop are consumed by the app's UI. The book then takes you through the process of testing, deploying, logging, and monitoring your APIs. You'll also explore API development using gRPC and GraphQL and design modern scalable architecture with microservices. The book helps you gain practical knowledge of modern API implementation using a sample e-commerce app. By the end of this Spring book, you'll be able to develop, test, and deploy highly scalable, maintainable, and developer-friendly APIs to help your customers to transform their business. What You Will Learn: Understand RESTful API development, its design paradigm, and its best practices Become well versed in Spring's core components for implementing RESTful web services Implement reactive APIs and explore async API development Apply Spring Security for authentication using JWT and authorization of requests Develop a React-based UI to consume APIs Implement gRPC inter-service communication Design GraphQL-based APIs by understanding workflows and tooling Gain insights into how you can secure, test, monitor,

and deploy your APIs Who this book is for: This book is for inexperienced Java programmers, comp science, or coding boot camp graduates who have knowledge of basic programming constructs, data structures, and algorithms in Java but lack the practical web development skills necessary to start working as a developer. Professionals who've recently joined a startup or a company and are tasked with creating real-world web APIs and services will also find this book helpful. This book is also a good resource for Java developers who are looking for a career move into web development to get started with the basics of web service development.

Lumen Programming Guide - Paul Redmond 2016-09-24 Learn to write test-driven microservices, REST APIs, and web service APIs with PHP using the Lumen micro-framework, from the now popular Laravel family. This book shows you how testing APIs can help you write bullet-proof web application services and microservices. In the Lumen Programming Guide you will learn how to use Lumen—a micro-framework by Laravel—to write bullet-proof APIs. Lumen helps you write productive, maintainable APIs using modern application design. You will learn how to write fully-tested APIs and understand essential Lumen concepts used to build a solid foundation for writing API projects. What You Will Learn Maintain your API's database structure through built-in database migrations Write tests with factory data in a test database Respond with consistent data output in JSON Deal with PHP exceptions by using JSON responses Create, read, update, and delete REST resources Represent model associations in API responses Build a solid foundation for writing tests with PHPUnit and Mockery Validate data Who This Book Is For PHP developers with no Laravel experience. Only a basic understanding of HTTP and writing PHP applications is needed to get started.

Advanced Guide to Python 3 Programming - John Hunt 2019-09-18
Advanced Guide to Python 3 Programming delves deeply into a host of subjects that you need to understand if you are to develop sophisticated real-world programs. Each topic is preceded by an introduction followed by more advanced topics, along with numerous examples, that take you to an advanced level. There are nine different sections within the book covering Computer Graphics (including GUIs), Games, Testing, File Input and Output, Databases Access, Logging, Concurrency and Parallelism, Reactive programming, and Networking. Each section is self-contained and can either be read on its own or as part of the book as a whole. This book is aimed at the those who have learnt the basics of the Python 3 language but want to delve deeper into Python's eco system of additional libraries and modules, to explore concurrency and parallelism, to create impressive looking graphical interfaces, to work with databases and files and to provide professional logging facilities.
RESTful Java Web Services - Bogunuva Mohanram Balachandar 2017-11-17
Master core REST concepts and create RESTful web services in Java About This Book Build efficient and secure RESTful web APIs in Java.. Design solutions to produce, consume and visualize RESTful web services using WADL, RAML, and Swagger Familiarize the role of RESTful APIs usage in emerging technology trends like Cloud, IoT, Social Media. Who This Book Is For If you are a web developer with a basic understanding of the REST concepts and envisage to get acquainted with the idea of designing and developing RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must. What You Will Learn Introduce yourself to the RESTful software architectural style and the REST API design

principles Make use of the JSR 353 API, JSR 374 API, JSR 367 API and Jackson API for JSON processing Build portable RESTful web APIs, making use of the JAX-RS 2.1 API Simplify API development using the Jersey and RESTEasy extension APIs Secure your RESTful web services with various authentication and authorization mechanisms Get to grips with the various metadata solutions to describe, produce, and consume RESTful web services Understand the design and coding guidelines to build well-performing RESTful APIs See how the role of RESTful web services changes with emerging technologies and trends In Detail Representational State Transfer (REST) is a simple yet powerful software architecture style to create lightweight and scalable web services. The RESTful web services use HTTP as the transport protocol and can use any message formats, including XML, JSON(widely used), CSV, and many more, which makes it easily inter-operable across different languages and platforms. This successful book is currently in its 3rd edition and has been used by thousands of developers. It serves as an excellent guide for developing RESTful web services in Java. This book attempts to familiarize the reader with the concepts of REST. It is a pragmatic guide for designing and developing web services using Java APIs for real-life use cases following best practices and for learning to secure REST APIs using OAuth and JWT. Finally, you will learn the role of RESTful web services for future technological advances, be it cloud, IoT or social media. By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services using Java APIs. Style and approach Step-by-step guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions.

Hands-On RESTful API Design

Patterns and Best Practices - Harihara Subramanian 2019-01-31
REST architecture (style) is a pivot of distributed systems, simplify data integration amongst modern and legacy applications leverages through the RESTful paradigm. This book is fully loaded with many RESTful API patterns, samples, hands-on implementations and also discuss the capabilities of many REST API frameworks for Java, Scala, Python and Go

Rust Web Programming - Maxwell Flitton 2021-02-26
Adopt the Rust programming language by learning how to build fully functional web applications and services and address challenges relating to safety and performance Key FeaturesBuild scalable web applications in Rust using popular frameworks such as Actix, Rocket, and WarpCreate front-end components that can be injected into multiple viewsDevelop data models in Rust to interact with the databaseBook Description Are safety and high performance a big concern for you while developing web applications? While most programming languages have a safety or speed trade-off, Rust provides memory safety without using a garbage collector. This means that with its low memory footprint, you can build high-performance and secure web apps with relative ease. This book will take you through each stage of the web development process, showing you how to combine Rust and modern web development principles to build supercharged web apps. You'll start with an introduction to Rust and understand how to avoid common pitfalls when migrating from traditional dynamic programming languages. The book will show you how to structure Rust code for a project that spans multiple pages and modules. Next, you'll explore the Actix Web framework and get a basic web server up and running. As you advance, you'll learn how to process JSON requests and display data from the web app via HTML, CSS, and JavaScript. You'll also be able

to persist data and create RESTful services in Rust. Later, you'll build an automated deployment process for the app on an AWS EC2 instance and Docker Hub. Finally, you'll play around with some popular web frameworks in Rust and compare them. By the end of this Rust book, you'll be able to confidently create scalable and fast web applications with Rust. What you will learnStructure scalable web apps in Rust in Rocket, Actix Web, and WarpApply data persistence for your web apps using PostgreSQLBuild login, JWT, and config modules for your web appsServe HTML, CSS, and JavaScript from the Actix Web serverBuild unit tests and functional API tests in Postman and NewmanDeploy the Rust app with NGINX and Docker onto an AWS EC2 instanceWho this book is for This book on web programming with Rust is for web developers who have programmed in traditional languages such as Python, Ruby, JavaScript, and Java and are looking to develop high-performance web applications with Rust. Although no prior experience with Rust is necessary, a solid understanding of web development principles and basic knowledge of HTML, CSS, and JavaScript are required if you want to get the most out of this book.

A Beginner's Guide to Scala, Object Orientation and Functional Programming - John Hunt 2018-03-02

Scala is now an established programming language developed by Martin Oderskey and his team at the EPFL. The name Scala is derived from Sca(lable) La(nguage). Scala is a multi-paradigm language, incorporating object oriented approaches with functional programming. Although some familiarity with standard computing concepts is assumed (such as the idea of compiling a program and executing this compiled from etc.) and with basic procedural language concepts (such as variables and allocation of values to these variables) the early chapters of the book do not assume any

familiarity with object orientation nor with functional programming These chapters also step through other concepts with which the reader may not be familiar (such as list processing). From this background, the book provides a practical introduction to both object and functional approaches using Scala. These concepts are introduced through practical experience taking the reader beyond the level of the language syntax to the philosophy and practice of object oriented development and functional programming. Students and those actively involved in the software industry will find this comprehensive introduction to Scala invaluable.

Restful Java Web Services Second Edition - Jobinesh Purushothaman 2015-09-18 Design scalable and robust RESTful web services with JAX-RS and Jersey extension APIsAbout 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 JavaWho This Book Is ForIf you are a web developer with a basic understanding of the REST concepts but are new to the idea of designing and developing RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must.What You Will Learn• Introduce yourself to the RESTful software architectural style and the REST API design principles• Make use of the JSR 353 APIs and Jackson API for JSON processing• Build portable RESTful web APIs, making use of the JAX-RS 2.0 API• Simplify API development using the Jersey extension APIs• Secure your RESTful web services with various authentication and authorization mechanisms• Get to grips with the various metadata solutions to describe, produce, and consume RESTful

web services• Understand the design and coding guidelines to build well-performing RESTful APIs• See how the role of RESTful web services changes with emerging technologies and trendsIn DetailREST (REpresentational State Transfer) is a simple yet powerful software architecture style to create scalable web services and allow them to be simple, lightweight, and fast. The REST API uses HTTP and JSON, so that it can be used with many programming languages such as Ruby, Java, Python, and Scala. Its use in Java seems to be the most popular though, because of the API's reusability.This book is a guide to developing RESTful web services in Java using the popular RESTful framework APIs available today. You will begin with gaining an in-depth knowledge of the RESTful software architectural style and its relevance in modern applications. Further, you will understand the APIs to parse, generate, transform, and query JSON effectively. Then, you will see how to build a simple RESTful service using the popular JAX-RS 2.0 API along with some real-world examples. This book will introduce you to the Jersey framework API, which is used to simplify your web services.You will also see how to secure your services with various authentication mechanisms. You will get to grips with various solutions to describe, produce, consume, and visualize RESTful web services. Finally, you will see how to design your web services to equip them for the future technological advances, be it Cloud or mobile computing.By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services, making use of the JAX-RS and Jersey framework extensions.Style and approachThis 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.

Google Cloud Certified

Professional Cloud Developer Exam Guide - Sebastian Moreno 2021-09-13
Discover how Google Cloud services can help you to reduce operational tasks and focus on delivering business value with your applications Key FeaturesDesign, develop, and deploy end-to-end cloud-native applications using Google Cloud servicesPrepare for the GCP developer exam with the help of a fictitious business case and a Q&A sectionGet hands-on with implementing code examples of different GCP services in your applicationsBook Description Google Cloud Platform is one of the three major cloud providers in the industry, exhibiting great leadership in application modernization and data management. This book provides a comprehensive introduction for those who are new to cloud development and shows you how to use the tools to create cloud-native applications by integrating the technologies used by Google. The book starts by taking you through the basic programming concepts and security fundamentals necessary for developing in Google Cloud. You'll then discover best practices for developing and deploying applications in the cloud using different components offered by Google Cloud Platform such as Cloud Functions, Google App Engine, Cloud Run, and other GCP technologies. As you advance, you'll learn the basics of cloud storage and choosing the best options for storing different kinds of data as well as understand what site reliability engineers do. In the last part, you'll work on a sample case study of Hip Local, a community application designed to facilitate communication between people nearby, created by the Google Cloud team. By the end of this guide, you'll have learned how to design, develop, and deploy an end-to-end application on the Google Cloud Platform. What you will learnGet to grips with the fundamentals of Google Cloud Platform developmentDiscover security best practices for applications

in the cloudFind ways to create and modernize legacy applicationsUnderstand how to manage data and databases in Google CloudExplore best practices for site reliability engineering, monitoring, logging, and debuggingBecome well-versed with the practical implementation of GCP with the help of a case studyWho this book is for This book is for cloud engineers or developers working or starting to work on Google Cloud Platform and looking to take advantage of cloud-native applications. You'll also find this book useful if you are preparing for the GCP developer exam.

Building RESTful Web Services with PHP 7 - Haafiz Waheed-ud-din Ahmad 2017-09-11 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-elated 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.

Designing Web APIs - Brenda Jin 2018-08-29

Using a web API to provide services to application developers is one of the more satisfying endeavors that software engineers undertake. But building a popular API with a thriving developer ecosystem is also one of the most challenging. With this practical guide, developers, architects, and tech leads will learn how to navigate complex decisions for designing, scaling, marketing, and evolving interoperable APIs. Authors Brenda Jin, Saurabh Sahni, and Amir Shevat explain API design theory and provide hands-on exercises for building your web API and managing its operation in production. You'll also learn how to build and maintain a following of app developers. This book includes expert advice, worksheets, checklists, and case studies from companies including Slack, Stripe, Facebook, Microsoft, Cloudinary, Oracle, and GitHub. Get an overview of request-response and event-driven API design paradigms Learn best practices for designing an API that meets the needs of your users Use a

template to create an API design process Scale your web API to support a growing number of API calls and use cases Regularly adapt the API to reflect changes to your product or business Provide developer resources that include API documentation, samples, and tools

RESTful Java Web Services - Jose Sandoval 2009

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

MuleSoft for Salesforce Developers - Arul Christhuraj Alphonse 2022-09-30

Design, secure, test, and deploy APIs with MuleSoft, and integrate it with Salesforce to maximize productivity Key Features Build, implement, transform, secure, test, and deploy APIs using Anypoint Studio and Anypoint Platform Integrate MuleSoft with Salesforce and other end systems to build an application network Enhance your Salesforce and MuleSoft skills and employability with interview and certification tips and tricks Book Description

MuleSoft for Salesforce Developers will help you build state-of-the-art enterprise solutions with flexible and scalable integration capabilities using MuleSoft's Anypoint Platform and Anypoint Studio. If you're a Salesforce developer looking to get started with this useful tool, look no further. This book will get you up to speed in no time, leveling up your integration developer skills. This essential guide will first introduce you to the fundamentals of MuleSoft and API-led connectivity, before walking you through the API life cycle and the Anypoint Studio IDE. Once you have the IDE set up, you'll be ready to create Mule applications. You'll look at the core components of MuleSoft and Anypoint Platform, and before long you'll know how to build, transform, secure, test, and deploy applications using the wide range of components available to you. Finally, you'll learn about using connectors to integrate MuleSoft with Salesforce and to fulfill a number of use cases, which will be covered in depth, along with interview and certification tips. By the end of this book, you will be confident building MuleSoft integrations at an enterprise scale and be able to gain the fundamental MuleSoft certification – MCD. What you will learn Understand how to use MuleSoft to achieve API-led connectivity Design and create documentation for your API Develop Mule applications and run them in Anypoint Studio Monitor your applications from Anypoint Platform Transform your data using DataWeave Use the CI/CD and Mule Maven plugins Run tests using MUnit and generate a code coverage report Use best practices to maintain coding standards Who this book is for This book is for Salesforce developers who want to get started with MuleSoft. Salesforce architects will also find the concepts covered in the book useful in designing Salesforce solutions. Prior knowledge of any programming language and some basic integration

concepts will be helpful, alongside basic familiarity with Salesforce development and experience with at least one Salesforce API – including the SOAP API, REST API, Bulk API, or Streaming API.

Building REST APIs with Flask - Kunal Relan 2019-09-12

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 LearnUse 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.

REST API Design Rulebook - Mark Masse 2011-10-25

The basic rules of REST APIs - "many nouns, few verbs, stick with HTTP" - seem easy, but that simplicity and power require discipline to work smoothly. This brief guide provides next steps for implementing complex projects on simple and extensible foundations.

APIs: A Strategy Guide - Daniel Jacobson 2012 "Creating channels with application programming interfaces"--Cover.

Absolute Beginner's Guide to Minecraft Mods Programming - Rogers Cadenhead 2015-10-01 Minecraft® is a registered trademark of Mojang Synergies / Notch Development AB. This book is not affiliated with or sponsored by Mojang Synergies / Notch Development AB. The easiest, quickest, most entertaining introduction to creating Minecraft mods in Java – updated to use the Spigot server for running your own Minecraft server and creating Minecraft mods Ideal for Minecraft users, young and old, who are new to programming Clear and friendly style assumes no prior programming knowledge Popular author Rogers Cadenhead breaks down Minecraft mods programming concepts and terms into short, easily understandable lessons Fun examples provide a step-by-step, hands-on experience that begins with simple tasks and gradually builds Master Minecraft modding and use Java to transform Minecraft's worlds, tools, behavior, weapons, structures, mobs…everything! (Plus, you'll learn some basic Java programming skills you can use anywhere.) Learn how to do what you want, the way you want, one incredibly easy step at a time. Modding Minecraft has never been this simple. This is the easiest, most practical beginner's guide to creating killer Minecraft mods in Java… simple, reliable, full-color instructions for doing everything you really want to do. Here's a small sample of what you'll learn: Set up your Minecraft server and mod development tools Master Java

basics every Minecraft modder needs to know Read, write, store, and change information throughout your mod Build mods that can make decisions and respond to player actions Understand object-oriented programming and the objects you can program in Minecraft Handle errors without crashing Minecraft Use threads to create mobs that can do many things at once Customize your mobs, and build on existing objects to write new mods Spawn new mobs, find hidden mobs, and make one mob ride another Dig holes and build structures Create projectile weapons and potion effects Learn Java programming while enhancing your favorite game Contents at a Glance Part I: Java from the Ground Up 1 Dig into Minecraft Programming with Java 2 Use NetBeans for Minecraft Programming 3 Create a Minecraft Mod 4 Start Writing Java Programs 5 Understand How Java Programs Work 6 Store and Change Information in a Mod 7 Use Strings to Communicate 8 Use Conditional Tests to Make Decisions 9 Repeat an Action with Loops 10 Store Information with Arrays Part II: The World of Java Objects 11 Create Your First Object 12 Describe What Your Object Is Like 13 Make the Most of Existing Objects 14 Store Objects in Data Structures 15 Handle Errors in a Mod 16 Create a Threaded Mod 17 Read and Write Files Part III: Create Killer Minecraft Mods 18 Spawn a Mob 19 Make One Mob Ride Another 20 Take a Census of Mobs and Villages 21 Transmute Materials in an Inventory 22 Dig a Giant Hole 23 Chop Down a Forest of Trees 24 Respond to Events in the Game 25 Display a Mob's Health During Combat 26 Make a World Change over Time 27 Befriend the God of Lightning Appendix A Visit This Book's Website

Undisturbed REST - Michael Stowe 2015-05-07

Believe it or not, building an API is the easy part. What is far more challenging is to put together a design that will stand the test of time, while also meeting your developers'

needs. After all, no matter how well written your code may be, without a strong foundation, you will find your API quickly failing. Undisturbed REST works to tackle this issue through the use of modern design techniques and technology, showing how to carefully design your API with your users and longevity in-mind, taking advantage of a design-first approach- while incorporating best practices and hard lessons learned. After reading Undisturbed REST, you'll have a strong understanding of APIs, best practices, and available tooling for designing, prototyping, sharing, documenting, and generating tooling (such as SDKs) around your API. More importantly, you'll be equipped to design and build an API not just for today, but one that can stand the test of time and lead your application into tomorrow.

IBM Intelligent Operations Center 1.6 Programming Guide - Hisham Abdel-Hafez 2014-05-28

IBM® Intelligent Operations Center is an integrated solution. It provides a rich set of capabilities and line of business tools that business users with domain expertise and no technical background can use without customization. IBM Intelligent Operations Center also provides services and extension points that developers can use to extend the IBM Intelligent Operations Center standard functions and develop capabilities specific to the domain and client requirements. IBM Intelligent Operations Center includes an application-based programming model that supports all the interactions with the solution components. The programming model is based on industry standard Representational State Transfer (REST) and Java technologies. IBM Intelligent Operations Center includes a full set of REST and Java application programming interfaces (APIs) that provide a simplified development environment and make the platform easy to extend and customize for a large community of developers. This

IBM Redbooks® publication gives a broad understanding of the IBM Intelligent Operations Center 1.6.0.1 programming model and available extension points. Many of the chapters describe working examples and usage scenarios that demonstrate how to extend the IBM Intelligent Operations Center base platform. This book includes sample code that can be downloaded from the IBM Redbooks website. The target audience for this book consists of solution architects, developers, technical consultants, and solution administrators who will learn the following information: The options available to extend the IBM Intelligent Operations Center solution programmatically How to configure customizations tailored to specific customer requirements How to use the available configuration tools to configure the solution without requiring programming Readers of this book will benefit from the IBM Redbooks publication IBM® Intelligent Operations Center 1.5 to 1.6 Migration Guide , SG24-8202.

Network Programming in Python: The Basic - John Galbraith 2022-05-03

For programmers who need to use Python for network-related activities and apps KEY FEATURES ● Comprehensive coverage of Python 3's improved SSL support. ● Create an asynchronous I/O loop on your own. ● A look at the "asyncio" framework, which is included with Python 3.4. DESCRIPTION This book includes revisions for Python 3 as well as all of the classic topics covered, such as network protocols, network data and errors, email, server architecture, and HTTP and web applications. ● Comprehensive coverage of Python 3's improved SSL support. ● How to create an asynchronous I/O loop on your own. ● A look at the "asyncio" framework, which is included with Python 3.4. ● The Flask web framework's URL-to-Python code connection. ● How to safeguard your website from cross-site scripting and cross-site request forgery

attacks. ● How Django, a full-stack web framework, can automate the round journey from your database to the screen and back. WHAT YOU WILL LEARN ● Asynchronous models and socket-based networks ● Monitor distant systems using Telnet and SSH connections ● Interact with websites using XML-RPC, SOAP, and REST APIs ● Configure virtual networks in various deployment scenarios ● Analyze security weaknesses in a network WHO THIS BOOK IS FOR This book is for Python programmers who need a thorough understanding of how to use Python for network-related activities and applications. This book covers all you need to know about web application development, systems integration, and system administration. TABLE OF CONTENTS 1. Client-Server Networking: An Overview 2. UDP(User Datagram Protocol) 3. Transmission control protocol (TCP) 4. Domain name system & socket names 5. Data and Errors on the Internet 6. SSL/TLS 7. Architecture of the Server 8. Message Queues and Caches 9. HTTP Clients 10. Servers that handle HTTP 11. www (world wide web) 12. E-mail Construction And Parsing 13.Simple Mail Transfer Protocol(SMTP) 14. Post Office Protocol (POP) 15. Internet Message Access Protocol (IMAP) 16. SSH and Telnet 17. File Transfer Protocol (FTP) 18. Remote Procedure Call (RPC)

Prestashop MVC Developer Guide - Alex Manfield 2017-10-10

PrestaShop is a free, open source eCommerce solution written in PHP. It supports payment gateways such as DirecPay, Google Checkout & PayPal. With this book you'll find a link to download 100Mb+ including the module ""MyProducts"" with its own documentation. This book will help you to customize Prestashop 1.5 - 1.7 through the Admin panel, and to make advanced code changes, and template customization. Many tools are discussed in this book to facilitate the developers and to help them to understand the

architecture of Prestashop in the shortest amount of time.

RESTful Web Services - Leonard Richardson 2008-12-17

"Every developer working with the Web needs to read this book." -- David Heinemeier Hansson, creator of the Rails framework "RESTful Web Services finally provides a practical roadmap for constructing services that embrace the Web, instead of trying to route around it." -- Adam Trachtenberg, PHP author and EBay Web Services Evangelist You've built web sites that can be used by humans. But can you also build web sites that are usable by machines? That's where the future lies, and that's what RESTful Web Services shows you how to do. The World Wide Web is the most popular distributed application in history, and Web services and mashups have turned it into a powerful distributed computing platform. But today's web service technologies have lost sight of the simplicity that made the Web successful. They don't work like the Web, and they're missing out on its advantages. This book puts the "Web" back into web services. It shows how you can connect to the programmable web with the technologies you already use every day. The key is REST, the architectural style that drives the Web. This book: Emphasizes the power of basic Web technologies -- the HTTP application protocol, the URI naming standard, and the XML markup language Introduces the Resource-Oriented Architecture (ROA), a common-sense set of rules for designing RESTful web services Shows how a RESTful design is simpler, more versatile, and more scalable than a design based on Remote Procedure Calls (RPC) Includes real-world examples of RESTful web services, like Amazon's Simple Storage Service and the Atom Publishing Protocol Discusses web service clients for popular programming languages Shows how to implement RESTful services in three popular frameworks -- Ruby on Rails, Restlet (for Java), and Django

(for Python) Focuses on practical issues: how to design and implement RESTful web services and clients This is the first book that applies the REST design philosophy to real web services. It sets down the best practices you need to make your design a success, and the techniques you need to turn your design into working code. You can harness the power of the Web for programmable applications: you just have to work with the Web instead of against it. This book shows you how.

Building RESTful Web Services with Go - Naren Yellavula 2017-12-28

Explore the necessary concepts of REST API development by building few real world services from scratch. Key Features Follow best practices and explore techniques such as clustering and caching to achieve a reactive, scalable web service Leverage the Gin Framework to quickly implement RESTful endpoints Learn to implement a client library for a RESTful web service using Go Book Description REST is an architectural style that tackles the challenges of building scalable web services and in today's connected world, APIs have taken a central role on the web. APIs provide the fabric through which systems interact, and REST has become synonymous with APIs. The depth, breadth, and ease of use of Go, makes it a breeze for developers to work with it to build robust Web APIs. This book takes you through the design of RESTful web services and leverages a framework like Gin to implement these services. The book starts with a brief introduction to REST API development and how it transformed the modern web. You will learn how to handle routing and authentication of web services along with working with middleware for internal service. The book explains how to use Go frameworks to build RESTful web services and work with MongoDB to create REST API. You will learn how to integrate Postgres SQL and JSON with a Go web service and build a

client library in Go for consuming REST API. You will learn how to scale APIs using the microservice architecture and deploy the REST APIs using Nginx as a proxy server. Finally you will learn how to metricize a REST API using an API Gateway. By the end of the book you will be proficient in building RESTful APIs in Go. What you will learn Create HTTP handler and introspect the Gorilla Mux router OAuth 2 implementation with Go Build RESTFul API with Gin Framework Create REST API with MongoDB and Go Build a working client library and unit test for REST API Debug, test, and profile RESTful APIs with each of the frameworks Optimize and scale REST API using microservices Who this book is for This book is intended for those who want to learn to build RESTful web services with a framework like Gin. To make best use of the code samples included in the book, you should have a basic knowledge of Go programming.

Programming JavaScript Applications - Eric Elliott 2014-06-26

Take advantage of JavaScript's power to build robust web-scale or enterprise applications that are easy to extend and maintain. By applying the design patterns outlined in this practical book, experienced JavaScript developers will learn how to write flexible and resilient code that's easier—yes, easier—to work with as your code base grows. JavaScript may be the most essential web programming language, but in the real world, JavaScript applications often break when you make changes. With this book, author Eric Elliott shows you how to add client- and server-side features to a large JavaScript application without negatively affecting the rest of your code. Examine the anatomy of a large-scale JavaScript application Build modern web apps with the capabilities of desktop applications Learn best practices for code organization, modularity, and reuse Separate your application into different layers of responsibility Build efficient,

self-describing hypermedia APIs with Node.js Test, integrate, and deploy software updates in rapid cycles Control resource access with user authentication and authorization Expand your application's reach through internationalization

Lumen Programming Guide - Paul Redmond 2016-09-23

Learn to write test-driven microservices, REST APIs, and web service APIs with PHP using the Lumen micro-framework, from the now popular Laravel family. This book shows you how testing APIs can help you write bullet-proof web application services and microservices. In the Lumen Programming Guide you will learn how to use Lumen—a micro-framework by Laravel—to write bullet-proof APIs. Lumen helps you write productive, maintainable APIs using modern application design. You will learn how to write fully-tested APIs and understand essential Lumen concepts used to build a solid foundation for writing API projects. What You Will Learn Maintain your API's database structure through built-in database migrations Write tests with factory data in a test database Respond with consistent data output in JSON Deal with PHP exceptions by using JSON responses Create, read, update, and delete REST resources Represent model associations in API responses Build a solid foundation for writing tests with PHPUnit and Mockery Validate data Who This Book Is For PHP developers with no Laravel experience. Only a basic understanding of HTTP and writing PHP applications is needed to get started.

ASP.NET Web API 2: Building a REST Service from Start to Finish - Jamie Kurtz 2014-08-07

The ASP.NET MVC Framework has always been a good platform on which to implement REST-based services, but the introduction of the ASP.NET Web API Framework raised the bar to a whole new level. Now in release version 2.1, the Web API Framework has evolved

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

Getting Started with IBM API Connect: Concepts and Architecture Guide - Wisnewski Benjamin 2016-09-08

Application programming interfaces (API) act as the digital glue that links services, applications, and systems together to create compelling customer experiences. Using APIs you can create interfaces between back-end systems and applications that can help you bring new digital services to market, open revenue channels, and exceed customer expectations. IBM® API Connect is an API management solution from IBM that offers capabilities to create, run, manage, and secure APIs and microservices, thus managing the full lifecycle of APIs for both on-premises and cloud environments. This IBM RedpaperTM publication gives a broad overview of APIs and API Connect and covers key considerations for managing the lifecycle of APIs. This paper is targeted for owners of an API Connect based API, such as, C-level executives,

members of the business development teams, product managers, and technical evangelists. For practical scenarios using API Connect, refer to the companion IBM Redbooks® publication, Getting Started with IBM API Connect: Scenarios Guide, REDP-5350.

Start Building Restful Microservices Using Akka HTTP with Scala: A Quick Start Guide to Building Microservices Using Akka HTTP with Scala in a One-Wee - Ayush Kumar Mishra 2017-12-31

Book Description This book is a part of Knoldus Reactive Programming Series. Few years ago, applications were much simpler and required all solutions at one place, we call them monolithic applications. Now a days markets are changing rapidly. You either adapt quickly or you go out of business. If your application is successful, you will start enhancing features day by day and as a result, your application becomes complex day by day and that complexity creates challenges in development. It will be difficult to fully understand and made changes fast and correctly. You must redeploy the entire application on each update. These type of application also has a barrier to adopting new technologies because it will affect the entire application. In this book, you will learn how you can manage this problem by dividing project into smaller pieces. You will learn how quickly you can start transforming your monolithic application into microservices. Microservice can be developed using different programming language (Personally I don't suggest to do it). I prefer Akka HTTP because it is fully integrated into Typesafe stack. Since there are already a lot of scala frameworks to build REST APIs then the obvious question is Why Akka HTTP? There are many reasons to use Akka HTTP, which you will learn in this book. I have written this book for those who want to start developing REST API right away and have a basic understanding of Scala. I

don't exhaustively list all feature of Akka HTTP. I don't make you suffer through long and contrived example. I have tried to explain every topic of this book with short and easy to understand examples with test-cases.Akka HTTP is available for both Java and Scala but in this book, we will go with Scala. I choose Scala because it cuts down on boilerplate and we can concentrate on the logic of our problems. In Scala, you are not limited to just object-oriented patterns to implement your code, you can bring in functional paradigms as well. What You'll Learn Advantage of using Microservices architecture over monolithic Introduction to Akka HTTP Start coding in Akka HTTP Powerful JSON (un)marshalling support How to build server-side API How to build client-side API WebSocket support using Akka HTTP By the end of the book, you will get the links of multiple sample projects of Akka HTTP. For ex.:Akka HTTP with SOLRAkka HTTP with SlickAkka HTTP with Neo4J You will also get templates with frameworks like Angular.js, Spark Et al. You can clone these sample projects according to your requirement and start playing with restful web services. Who This Book Is For Those who want to start working on microservices architecture right away. The only pre-requisite to this book is that you are "comfortable" with Scala. However language is not a bar, even if you want to develop java microservices using Akka HTTP, you can still read this book to understand the concept. I have used the latest version of Akka HTTP in this book. About The Author Ayush Kumar Mishra is a Lead Scala Consultant based in Singapore. He is currently working with Knoldus, an organization where knowledge sharing and upskilling each Knolder is a way of life, which is the only organization to be partners with Lightbend, Databricks, Confluent and Datastax to deliver high-quality reactive products to its global clients. He has been working in Scala for more than 5 years. He

loves to troubleshoot complex problems and look for the best solutions. In his career, he has successfully developed and delivered various microservice based systems with Scala and Akka HTTP. When he is not programming, he writes technical blogs. Most of his blogs are related to rest api design. He has also transformed some monolithic systems into microservice based system.