REST API Design

Best Practices

JEAN·MARC MÖCKEL

The Rest Api Design Handbook

Daniela Niemeyer

The Rest Api Design Handbook:

   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   **The Rest API Design Handbook** Jamie L. Barlow,2015-08-06 Thought provoking and accessible in approach this updated and expanded second edition of the The REST API Design Handbook provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for advanced graduate level students We hope you find this book useful in shaping your future career Feel free to send us your enquiries related to our publications to info risepress pw Rise Press   　　　　　　 ,1976

   REST API Design Rulebook Mark Masse,2011-10-18 In today s market where rival web services compete for attention a well designed REST API is a must have feature This concise book presents a set of API design rules drawn primarily from best practices that stick close to the Web s REST architectural style Along with rules for URI design and HTTP use you ll learn guidelines for media types and representational forms REST APIs are ubiquitous but few of them follow a consistent design methodology Using these simple rules you will design web service APIs that adhere to recognized web standards To assist you author Mark Mass introduces the Web Resource Modeling Language WRML a conceptual framework he created for the design and implementation of REST APIs Learn design rules for addressing resources with URIs Apply design principles to HTTP s request methods and response status codes Work with guidelines for conveying metadata through HTTP headers and media types Get design tips to address the needs of client programs including the special needs of browser based JavaScript clients Understand why REST APIs should be designed and configured not coded   **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 **Hands-On RESTful API Design Patterns and Best Practices** Harihara Subramanian,Pethuru Raj,2019-01-31 Build effective RESTful APIs for enterprise with design patterns and REST framework s out of the box capabilities Key FeaturesUnderstand advanced topics such as API gateways API securities and cloudImplement patterns programmatically with easy to follow examplesModernize legacy codebase using API connectors layers and microservicesBook Description This book deals with the Representational State Transfer REST paradigm which is an architectural style that allows networked devices to communicate with each other over the internet With the help of this book you ll explore the concepts of service oriented architecture SOA event driven architecture EDA and resource oriented architecture ROA This book covers why there is an insistence for high quality APIs toward enterprise integration It also covers how to optimize and explore endpoints for microservices with API gateways and touches upon integrated platforms and Hubs for RESTful APIs You ll also understand how application delivery and deployments can be simplified and streamlined in the REST world The book will help you dig deeper into the distinct contributions of RESTful services for IoT analytics and applications Besides detailing the API design and development aspects this book will assist you in designing and developing production ready testable sustainable and enterprise grade APIs By the end of the book you ll be empowered with all that you need to create highly flexible APIs for next generation RESTful services and applications What you will learnExplore RESTful concepts including URI HATEOAS and Code on DemandStudy core patterns like Statelessness Pagination and DiscoverabilityOptimize endpoints for linked microservices with API gatewaysDelve into API authentication authorization and API security implementationsWork with Service Orchestration to craft composite and process aware servicesExpose RESTful protocol based APIs for cloud computingWho this book is for This book is primarily for web mobile and cloud services developers architects and consultants who want to build well designed APIs for creating and sustaining enterprise class applications You ll also benefit from this book if you want to understand the finer details of RESTful APIs and their design techniques along with some tricks and tips **JUnit in Action** Catalin Tudose,2020-11-16 JUnit in Action Third Edition has been completely rewritten for this release The book is full of examples that demonstrate JUnit s modern features including its new architecture nested tagged and dynamic tests and dependency injection Summary JUnit is the gold standard for unit testing Java applications Filled with powerful new features designed to automate software testing JUnit 5 boosts your productivity and helps avoid debugging nightmares Whether you re just starting with JUnit or you want to ramp up on the new features JUnit in Action Third Edition

has you covered Extensively revised with new code and new chapters JUnit in Action Third Edition is an up to date guide to smooth software testing Dozens of hands on examples illustrate JUnit 5 s innovations for dependency injection nested testing parameterized tests and more Throughout you ll learn how to use JUnit 5 to automate your testing for a process that consumes less resources and gives you more time for developing Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology The JUnit framework is the gold standard for unit testing Java applications and knowing it is an essential skill for Java developers The latest version JUnit 5 is a total overhaul now supporting modern Java features like Lambdas and Streams About the book JUnit in Action Third Edition has been completely rewritten for this release The book is full of examples that demonstrate JUnit s modern features including its new architecture nested tagged and dynamic tests and dependency injection You ll benefit from author Catalin Tudose s unique pyramid testing strategy which breaks the testing process into layers and sets you on the path to bug free code creation What s inside Migrating from JUnit 4 to 5 Effective test automation Test driven development and behavior driven development Using mocks for test isolation Connecting JUnit 5 with Maven or Gradle About the reader For intermediate Java developers About the author Catalin Tudose has a Ph D in Computer Science and over 15 years of experience as a Senior Java Developer and Technical Team Lead Previous editions were authored by Petar Tahchiev Felipe Leme Gary Gregory and Vincent Massol Table of Contents PART 1 JUNIT 1 JUnit jump start 2 Exploring core JUnit 3 JUnit architecture 4 Migrating from JUnit 4 to JUnit 5 5 Software testing principles PART 2 DIFFERENT TESTING STRATEGIES 6 Test quality 7 Coarse grained testing with stubs 8 Testing with mock objects 9 In container testing PART 3 WORKING WITH JUNIT 5 AND OTHER TOOLS 10 Runing JUnit tests from Maven 3 11 Running JUnit tests from Gradle 6 12 JUnit 5 IDE support 13 Coninuous integration with JUnit 5 PART 4 WORKING WITH MODERN FRAMEWORKS AND JUNIT 5 14 JUnit 5 extension model 15 Presentation layer testing 16 Testing Spring applications 17 Testing Spring Boot applications 18 Testing a REST API 19 Testing database applications PART 5 DEVELOPING APPLICATIONS WITH JUNIT 5 20 Test driven development with JUnit 5 21 Behavior driven development in JUnit 5 22 Implementing a test pyramid strategy with JUnit 5   *The Design of Web APIs* Arnaud Lauret,2019-10-08 Summary 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 About the technology An API frees developers to integrate with an application without knowing its code level details Whether you re using established standards like REST and OpenAPI or more recent approaches like GraphQL or gRPC mastering API design is a superskill It will make your web facing services easier to consume and your clients internal and external happier About the book Drawing on author Arnaud Lauret s many years of API design experience this book teaches you how to gather requirements how to balance business and technical goals and how to adopt a consumer first mindset It teaches effective practices using numerous interesting examples What s inside Characteristics of a well designed

API User oriented and real world APIs Secure APIs by design Evolving documenting and reviewing API designs About the reader Written for developers with minimal experience building and consuming APIs About the author A software architect with extensive experience in the banking industry Arnaud Lauret has spent 10 years using designing and building APIs He blogs under the name of API Handyman and has created the API Stylebook website   The Web API Handbook JUDE. MAX,2025-09-11 Description The Modern Developer s Blueprint The difference between a great app and a struggling one often comes down to its API As a backend developer you know the importance of a clean REST API design but you re unsure how to implement it correctly You re struggling with security performance bottlenecks and the fear that your code will break with the next unannounced update You need a reliable API development guide that tackles every challenge from design to deployment This is where The Web API Handbook comes in As the ultimate backend developer handbook it s your all in one resource for mastering the full API lifecycle We ve compiled the latest best practices expert insights and hands on tutorials into a single cohesive blueprint for building modern APIs that stand the test of time Holistic Approach Master REST API design from the ground up and understand the core differences in a modern GraphQL vs REST comparison Secure Your API Get practical guidance on API security for developers including authentication with JWT and defenses against common attacks Ship with Confidence Learn how to create a robust API testing guide and set up automated API deployment workflows with Docker and CI CD pipelines Solve Real World Problems Tackle common pitfalls with dedicated troubleshooting sections and practical case studies in every chapter Equip yourself with the skills to build a world class API Order your copy today   , **API Design Patterns** JJ Geewax,2021-08-17 A concept rich book on API design patterns Deeply engrossing and fun to read Satej Sahu Honeywell API Design Patterns lays out a set of design principles for building internal and public facing APIs In API Design Patterns you will learn Guiding principles for API patterns Fundamentals of resource layout and naming Handling data types for any programming language Standard methods that ensure predictability Field masks for targeted partial updates Authentication and validation methods for secure APIs Collective operations for moving managing and deleting data Advanced patterns for special interactions and data transformations API Design Patterns reveals best practices for building stable user friendly APIs These design patterns can be applied to solve common API problems and flexibly altered to fit specific needs Hands on examples and relevant cases illustrate patterns for API fundamentals advanced functionalities and uncommon scenarios Foreword by Jon Skeet Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology APIs are contracts that define how applications services and components communicate API design patterns provide a shared set of best practices specifications and standards that ensure APIs are reliable and simple for other developers This book collects and explains the most important patterns from both the API design community and the experts at Google About the book API Design Patterns lays out a set of principles for building internal and public facing APIs Google API expert JJ Geewax presents patterns that

ensure your APIs are consistent scalable and flexible You ll improve the design of the most common APIs plus discover techniques for tricky edge cases Precise illustrations relevant examples and detailed scenarios make every pattern clear and easy to understand What s inside Guiding principles for API patterns Fundamentals of resource layout and naming Advanced patterns for special interactions and data transformations A detailed case study on building an API and adding features About the reader For developers building web and internal APIs in any language About the author JJ Geewax is a software engineer at Google focusing on Google Cloud Platform API design and real time payment systems He is also the author of Manning s Google Cloud Platform in Action Table of Contents PART 1 INTRODUCTION 1 Introduction to APIs 2 Introduction to API design patterns PART 2 DESIGN PRINCIPLES 3 Naming 4 Resource scope and hierarchy 5 Data types and defaults PART 3 FUNDAMENTALS 6 Resource identification 7 Standard methods 8 Partial updates and retrievals 9 Custom methods 10 Long running operations 11 Rerunnable jobs PART 4 RESOURCE RELATIONSHIPS 12 Singleton sub resources 13 Cross references 14 Association resources 15 Add and remove custom methods 16 Polymorphism PART 5 COLLECTIVE OPERATIONS 17 Copy and move 18 Batch operations 19 Criteria based deletion 20 Anonymous writes 21 Pagination 22 Filtering 23 Importing and exporting PART 6 SAFETY AND SECURITY 24 Versioning and compatibility 25 Soft deletion 26 Request deduplication 27 Request validation 28 Resource revisions 29 Request retrial 30 Request authentication **Oracle SOA Suite 12c Handbook** Lucas Jellema,2015-09-01 Master Oracle SOA Suite 12c Design implement manage and maintain a highly flexible service oriented computing infrastructure across your enterprise using the detailed information in this Oracle Press guide Written by an Oracle ACE director Oracle SOA Suite 12c Handbook uses a start to finish case study to illustrate each concept and technique Learn expert techniques for designing and implementing components assembling composite applications integrating Java handling complex business logic and maximizing code reuse Runtime administration governance and security are covered in this practical resource Get started with the Oracle SOA Suite 12c development and run time environment Deploy and manage SOA composite applications Expose SOAP XML REST JSON through Oracle Service Bus Establish interactions through adapters for Database JMS File FTP UMS LDAP and Coherence Embed custom logic using Java and the Spring component Perform fast data analysis in real time with Oracle Event Processor Implement Event Drive Architecture based on the Event Delivery Network EDN Use Oracle Business Rules to encapsulate logic and automate decisions Model complex processes using BPEL BPMN and human task components Establish KPIs and evaluate performance using Oracle Business Activity Monitoring Control traffic audit system activity and encrypt sensitive data **RESTful Web APIs** Leonard Richardson,Mike Amundsen,Sam Ruby,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   The Oracle Designer/2000 Handbook Carrie Anderson,David Wendelken,1997 Designed as a user s manual because the product ships with no written documentation this book will be in great demand by those using this state of the art information systems design product The disk include sample applications used in the labs   RESTful API Design Patterns and Best Practices Andrzej Jarzyna,Samir Amzani,2025-10-06 Learn how to build robust future proof APIs by applying the latest industry best practices avoiding common pitfalls and understanding anti patterns Key Features Design APIs with your audience in mind to improve usability lifecycle management and communication Learn how to create a client centric REST API design leveraging OpenAPI and JSON Schema Explore API versioning strategies and gain hands on experience with API testing and implementation Purchase of the print or Kindle book includes a free PDF eBook Book Description Designing scalable user focused and robust APIs that are built to last isn t just a technical challenge but a design imperative Written by API leaders with over 30 years of combined experience advancing API strategy governance and community this book is your comprehensive guide to API design focusing on domain driven consumer centric APIs that meet real world user needs while remaining flexible and maintainable over time It covers modern REST API design the use of tools like OpenAPI and JSON Schema and the importance of a product based approach The chapters help you explore best practices potential pitfalls and anti patterns extending beyond the design phase Starting with the why behind building an API its intended users and value this book walks you through the API lifecycle the role of contracts and the application of domain driven design You ll develop a solid foundation in REST API design as you discover different styles design constraints and more Beyond design the book covers testing techniques API evolution maintenance and deprecation By the end of the book you ll not only know how to design great APIs but will understand how to treat them as products manage their full lifecycle and deliver real value by ensuring your APIs stay relevant and reliable long after their initial release What you will learn Assess your client s needs to design APIs that communicate the value of your product Understand the role of API lifecycle and the importance of contracts Apply domain driven design principles in API architecture Embrace a modern approach to REST API design Use the OpenAPI Specification and JSON Schema for standardized APIs Evolve maintain and deprecate your APIs without disrupting your users Who this book is for This book is for professionals involved in the digital product lifecycle who want to deepen their understanding of API design and build

future proof APIs with a product centric approach API developers solution architects and engineers technical product owners and software architects looking to extend their skills in creating efficient scalable and maintainable APIs will find this book particularly useful Basic knowledge of APIs and the HTTP protocol is recommended to fully benefit from the design principles and practices covered   API Architecture Matthias Biehl,2015-05-22 Looking for the big picture of building APIs This book is for you Building APIs that consumers love should certainly be the goal of any API initiative However it is easier said than done It requires getting the architecture for your APIs right This book equips you with both foundations and best practices for API architecture This book is for you if you want to understand the big picture of API design and development you want to define an API architecture establish a platform for APIs or simply want to build APIs your consumers love This book is NOT for you if you are looking for a step by step guide for building APIs focusing on every detail of the correct application of REST principles In this case I recommend the book API Design of the API University Series What is API architecture Architecture spans the bigger picture of APIs and can be seen from several perspectives API architecture may refer to the architecture of the complete solution consisting not only of the API itself but also of an API client such as a mobile app and several other components API solution architecture explains the components and their relations within the software solution API architecture may refer to the technical architecture of the API platform When building running and exposing not only one but several APIs it becomes clear that certain building blocks of the API runtime functionality and management functionality for the API need to be used over and over again An API platform provides an infrastructure for developing running and managing APIs API architecture may refer to the architecture of the API portfolio The API portfolio contains all APIs of the enterprise and needs to be managed like a product API portfolio architecture analyzes the functionality of the API and organizes manages and reuses the APIs API architecture may refer to the design decisions for a particular API proxy To document the design decisions API description languages are used We explain the use of API description languages RAML and Swagger on many examples This book covers all of the above perspectives on API architecture However to become useful the architecture needs to be put into practice This is why this book covers an API methodology for design and development An API methodology provides practical guidelines for putting API architecture into practice It explains how to develop an API architecture into an API that consumers love A lot of the information on APIs is available on the web Most of it is published by vendors of API products I am always a bit suspicious of technical information pushed by product vendors This book is different In this book a product independent view on API architecture is presented 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   Handbook, Butane-propane Gases Lynn C. Denny,Harold W. Wickstrom,1947

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   *Annual Book of ASTM Standards* American Society for Testing and Materials,1987 Index to ASTM standards issued as last part of each vol   **The Handbook of Butane-propane Gases** George H. Finley,1935

The Enigmatic Realm of **The Rest Api Design Handbook**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **The Rest Api Design Handbook** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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The Rest Api Design Handbook Introduction

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