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Practical Api Design

**Edmund Clarke,Irina
Virbitskaite,Andrei Voronkov**



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Practical API Design Jaroslav Tulach, 2008-09-20 You might think more than enough design books exist in the programming world already In fact there are so many that it makes sense to ask why you would read yet another Is there really a need for yet another design book In fact there is a greater need than ever before and Practical API Design Confessions of a Java Framework Architect fills that need Teaches you how to write an API that will stand the test of time Written by the designer of the NetBeans API at Sun Technologies Based on best practices scalability and API design patterns

Practical API Architecture and Development with Azure and AWS Thurupathan Vijayakumar, 2018-06-20 Learn the business and technical importance of API design and architecture using the available cloud services from Azure and AWS This book starts off with an introduction to APIs and the concept of API Economy from a business and organizational perspective You ll decide on a sustainable API strategy and API architecture based on different case scenarios You ll then look at actual examples on API development guidelines providing a practical view and approach towards the API development and aligning teams in API development This book walks you through the API gateway services available in Azure and AWS and reviews different approaches to API Security This will prepare you for understanding the trade off between security and the frictionless API experience What You ll Learn Implement API Gateways to streamline API Development Examine Security Mapping with API gateways from Azure and AWS Apply API implementation using Serverless architecture Review evolving APIs for monitoring and changing business requirements Use code samples in API security implementations Who This Book Is For Developers and architects with NET and web development experience who want to learn about API design *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

Patterns for API Design Olaf Zimmermann,Mirko Stocker,Daniel Lubke,Uwe Zdun,Cesare Pautasso,2022-12-05 Proven Patterns for Designing Evolvable High Quality APIs For Any Domain Technology or Platform APIs enable breakthrough innovation and digital transformation in organizations and ecosystems of all kinds To create user friendly reliable and well performing APIs architects designers and developers need expert design guidance This practical guide cuts through the complexity of API conversations and their message contents introducing comprehensive guidelines and heuristics for designing APIs sustainably and specifying them clearly for whatever technologies or platforms you use In Patterns for API Design Simplifying Integration with Loosely Coupled Message Exchanges five expert architects and developers cover the entire API lifecycle from launching projects and establishing goals through defining requirements elaborating designs planning evolution and creating useful documentation They crystallize the collective knowledge of many practitioners into 44 API design patterns consistently explained with context pros and cons conceptual solutions and concrete examples To make their pattern language accessible they present a domain model a running case study decision narratives with pattern selection options and criteria and walkthroughs of real world projects applying the patterns in two different industries Identify and overcome API design challenges with patterns Size your endpoint types and operations adequately Design request and response messages and their representations Refine your message design for quality Plan to evolve your APIs Document and communicate your API contracts Combine patterns to solve real world problems and make the right tradeoffs This book provides a healthy mix of theory and practice containing numerous nuggets of deep advice but never losing the big picture grounded in real world experience and documented with academic rigor applied and practitioner community feedback incorporated I am confident that it will serve the community well today and tomorrow Prof Dr Dr h c Frank Leymann Managing Director Institute of Architecture of Application Systems University of Stuttgart

Modern API Design with gRPC: Efficient Solutions to Design Modern APIs with gRPC Using Golang for Scalable Distributed Systems Hitesh Pattanayak,2024-03-29 Elevate Your Development with Effortless and Efficient API Communication Key Features Delve into core concepts of gRPC like Protocol Buffers service definitions and communication patterns Implement gRPC servers and clients in Golang and master Protocol Buffers for defining services and messages Compare gRPC with REST and SOAP uncovering its distinct advantages and use cases Book Description Modern API Design with gRPC is a definitive guide that empowers developers to leverage the full potential of gRPC in constructing efficient and scalable distributed systems Beginning with an exploration of API evolution and its significance in software development the book seamlessly transitions into the core concepts of gRPC architecture protocol buffers and stubs Through practical examples and clear instructions readers embark on a journey to establish their first gRPC server and client laying a solid groundwork

for further exploration Delving deeper into advanced topics such as communication patterns error handling and load balancing strategies specific to gRPC With a strong emphasis on security readers learn to implement TLS encryption mutual authentication and authorization mechanisms to fortify their applications The book provides invaluable insights into best practices for constructing production grade gRPC applications complemented by real world case studies that illustrate the versatility and scalability of gRPC across diverse project landscapes This book equips readers with the confidence to design implement and deploy robust gRPC applications catalyzing a transformative shift in their distributed system development approach What you will learn Master core concepts and architecture of gRPC Implementation of diverse communication patterns for streamlined data exchange Application of TLS encryption and authentication for securing gRPC applications Optimization of performance and scalability of gRPC services Designing production grade applications with robust error handling and monitoring Utilizing gRPC in real world projects to create scalable distributed systems Table of Contents 1 API Evolution over Time 2 Fundamentals of gRPC 3 Getting Started with gRPC 4 Communication Patterns in gRPC 5 Advanced gRPC Concepts 6 Load Balancing in gRPC 7 Secured gRPC 8 Production Grade gRPC Applications 9 Case Studies of Projects Using gRPC Index

API Development Made Easy: A Practical Guide with Examples William E. Clark, 2025-04-16 API Development Made Easy A Practical Guide with Examples offers a comprehensive and practical overview of modern API design implementation and management The book systematically explores the fundamental concepts of APIs detailing essential protocols architectural paradigms and core components that underpin robust and scalable software interfaces With coverage spanning REST SOAP GraphQL and related technologies it presents clear explanations historical context and technical depth to equip readers with a thorough understanding of how APIs facilitate efficient communication between systems Moving beyond theory the guide provides hands on instruction for building reliable APIs including detailed chapters on request handling data serialization security best practices and integration with databases Readers are introduced to practical techniques for testing debugging deployment versioning and performance optimization ensuring that the APIs they create are resilient maintainable and secure Special attention is devoted to real world challenges such as authentication authorization error handling monitoring and lifecycle management Intended for software engineers architects and technical professionals of varying experience levels this book distills both foundational knowledge and advanced concepts into actionable guidance Readers can expect to gain the ability to design build document and maintain APIs that align with industry best practices and evolving project requirements With a blend of theoretical background and practical examples this resource prepares technical teams to deliver high quality APIs for diverse domains and use cases

Mastering APIs for Enterprise Applications Rajan Subramanian, 2025-03-20 DESCRIPTION Technology is moving towards modern digital systems with business functionality exposed by integrating multiple best of breed software systems In today s interconnected digital landscape application programming interfaces APIs are the backbone of enterprise applications enabling seamless

data exchange and service integration This book takes you through the entire API lifecycle starting with the evolution of APIs and moving beyond traditional REST to modern architectures like GraphQL and gRPC You will learn the core principles of API design including best practices security protocols and open standard adoption like OpenAPI You will also gain practical skills in API development testing and documentation focusing on enhancing developer experience and ensuring scalability Crucial aspects of API governance real time API implementation and API gateways are thoroughly covered Finally the book explores emerging trends including generative AI APIs vision natural language processing NLP speech and large language models LLMs preparing you for the future of API integration By the end of this book you will gain the expertise to confidently build and manage APIs for enterprise applications becoming a proficient architect in the dynamic world of digital integration ready to leverage APIs as a powerful strategic asset

WHAT YOU WILL LEARN Understanding different API architectures like REST gRPC and WebSockets Practical approach to API development with an emphasis on open standards Explore advanced topics like real time asynchronous and generative AI APIs Implement rigorous API testing strategies to ensure reliability and security Enhance the developer experience with effective documentation and interactive API explorers Best practices to create enterprise grade high performance APIs Learning WebSocket SSE message broker implementation for real time data delivery

WHO THIS BOOK IS FOR This book is for developers architects and technical leads who want to design and develop robust scalable and secure APIs for their web applications It assumes a basic understanding of HTTP JSON and JavaScript

TABLE OF CONTENTS 1 The Modern API Economy 2 Beyond REST 3 Fundamentals of API Design 4 Crafting APIs 5 Embracing Open API Standards 6 API Security 7 API Development Lifecycle 8 API Testing 9 API Documentation 10 API Performance and Scaling 11 API Governance 12 Real time Asynchronous and Streaming APIs 13 API Management Platforms and Gateways 14 Trends in AI APIs

Pro Spring MVC: With Web Flow Marten Deinum,Koen Serneels,Colin Yates,Seth Ladd,Erwin Vervaet,Christophe Vanfleteren,2012-10-06 Pro Spring MVC provides in depth coverage of Spring MVC and Spring Web Flow two highly customizable and powerful web frameworks brought to you by the developers and community of the Spring Framework Spring MVC is a modern web application framework built upon the Spring Framework and Spring Web Flow is a project that complements Spring MVC for building reusable web controller modules that encapsulate rich page navigation rules Along with detailed analysis of the code and functionality plus the first published coverage of Spring Web Flow 2 x this book includes numerous tips and tricks to help you get the most out of Spring MVC Spring Web Flow and web development in general Spring MVC and Spring Web Flow have been upgraded in the new Spring Framework 3.1 and are engineered with important considerations for design patterns and expert object oriented programming techniques This book explains not only the design decisions of the frameworks but also how you can apply similar designs and techniques to your own code This book takes great care in covering every inch of Spring MVC and Spring Web Flow to give you the complete picture Along with all the best known features of these frameworks you ll discover some new hidden treasures You ll also

learn how to correctly and safely extend the frameworks to create customized solutions This book is for anyone who wishes to write robust modern and useful web applications with the Spring Framework

Software Language Engineering Mark van den Brand, Dragan Gasevic, Jeff Gray, 2010-03-25 This book constitutes the thoroughly refereed post conference proceedings of the Second International Conference on Software Language Engineering SLE 2009 held in Denver CO USA in October 2009 The 15 revised full papers and 6 revised short paper presented together with 2 tool demonstration papers were carefully reviewed and selected from 75 initial submissions The papers are organized in topical sections on language and model evolution variability and product lines parsing compilation and demo modularity in languages and metamodeling and demo

Software Reuse in the Emerging Cloud Computing Era Yang, Hongji, Liu, Xiaodong, 2012-04-30 This book clarifies the present fast advancing literature of the current state of art and knowledge in the areas of the development and reuse of reusable assets in emerging software systems and applications Provided by publisher

API Design for C++ Martin Reddy, 2011-03-14 API Design for C provides a comprehensive discussion of Application Programming Interface API development from initial design through implementation testing documentation release versioning maintenance and deprecation It is the only book that teaches the strategies of C API development including interface design versioning scripting and plug in extensibility Drawing from the author's experience on large scale collaborative software projects the text offers practical techniques of API design that produce robust code for the long term It presents patterns and practices that provide real value to individual developers as well as organizations API Design for C explores often overlooked issues both technical and non technical contributing to successful design decisions that product high quality robust and long lived APIs It focuses on various API styles and patterns that will allow you to produce elegant and durable libraries A discussion on testing strategies concentrates on automated API testing techniques rather than attempting to include end user application testing techniques such as GUI testing system testing or manual testing Each concept is illustrated with extensive C code examples and fully functional examples and working source code for experimentation are available online This book will be helpful to new programmers who understand the fundamentals of C and who want to advance their design skills as well as to senior engineers and software architects seeking to gain new expertise to complement their existing talents Three specific groups of readers are targeted practicing software engineers and architects technical managers and students and educators The only book that teaches the strategies of C API development including design versioning documentation testing scripting and extensibility Extensive code examples illustrate each concept with fully functional examples and working source code for experimentation available online Covers various API styles and patterns with a focus on practical and efficient designs for large scale long term projects

Perspectives of Systems Informatics Edmund Clarke, Irina Virbitskaite, Andrei Voronkov, 2012-05-13 This book contains thoroughly refereed and revised papers from the 8th International Andrei Ershov Memorial Conference on Perspectives of System Informatics PSI 2011 held in Akademgorodok Novosibirsk Russia in June

July 2011 The 18 revised full papers and 10 revised short papers presented were carefully reviewed and selected from 60 submissions The volume also contains 5 invited papers covering a range of hot topics in computer science and informatics The papers are organized in topical sections on foundations of program and system development and analysis partial evaluation mixed computation abstract interpretation compiler construction computer models and algorithms for bioinformatics programming methodology and software engineering information technologies knowledge based systems and knowledge engineering *Software Systems Architecture* Nick Rozanski,Eoin Woods,2012 This guide for software architects builds upon legacies of best practice explaining key areas and how to make architectural designs successful

GraphQL API Design Matthias Biehl,2018-01-30 Want to build APIs like Facebook Since Facebook s framework for building APIs GraphQL has become publicly available this ambition seems to be within reach for many companies And that is great But first let s learn what GraphQL really is and maybe even more importantly let s figure out how to apply GraphQL to build APIs that consumers love Do you like to learn hands on In this book we take a hands on approach to learning GraphQL We first explore the concepts of the two GraphQL languages using examples Then we start writing some code for our first GraphQL API We develop this API step by step from creating a schema and resolving queries over mocking data and connecting data sources all the way to developing mutations and setting up event subscriptions Are your API consumers important to you This book shows you how to apply a consumer oriented design process for GraphQL APIs so you can deliver what your consumers really want an API that solves their problems and offers a great developer experience Do you want to enable the API consumers so they can build great apps This book explains the GraphQL query language which allows the API consumers to retrieve data write data and get notified when data changes More importantly you let them decide which data they really need from the API Do you want to make your API easy and intuitive to use This book shows you how to use the GraphQL schema language to define a type system for your API which serves as a reference documentation and helps your API consumers write queries that are syntactically correct Do you want to profit from what has worked for others This book provides a collection of best practices for GraphQL that have worked for other companies e g regarding pagination authentication and caching REST vs GraphQL Which one is better GraphQL and REST are competing philosophies for building APIs It is not in the scope of this book to compare or discuss the two approaches The focus of this book is on a hands on approach for learning GraphQL **Designing APIs with Swagger and OpenAPI** Josh Poneiat,Lukas

Rosenstock,2022-07-19 Follow real world API projects from concept to production and learn hands on how to describe and design APIs using OpenAPI In *Designing APIs with Swagger and OpenAPI* you will learn how to Understand OpenAPI syntax and structure Use Swagger and other tooling to create OpenAPI definitions Design authentication and authorization Turn an OpenAPI description into online documentation Automate processes and generating code Iterate an API design with user stories Build a frontend against a mock server Generate backend code with Swagger Codegen Versioning an API and dodging

breaking changes Work with cross functional teams Designing APIs with Swagger and OpenAPI is a comprehensive guide to designing and describing your first RESTful API using the most widely adopted standards Following expert instruction from Swagger core contributor Josh Ponelat and API consultant Lukas Rosenstock you ll spend each chapter progressively expanding the kind of APIs you ll want to build in the real world You ll utilize OpenAPI and Swagger to help automate your workflow and free up your time to work on more exciting features Learn the syntax and structure of OpenAPI definitions create and iterate on an API design with common tools and release your API to the public About the technology Create web APIs that customers and developers will love Using Swagger a collection of tools for defining and documenting REST APIs you will build safe controlled access to your software And because Swagger implements the vendor neutral OpenAPI specification you ll be building to the same standards adopted by Google Microsoft and Amazon About the book Designing APIs with Swagger and OpenAPI introduces a design first approach Written for developers new to API design it follows the lifecycle of an API project from concept to production You ll explore the dos and don ts of APIs through progressively complete examples You ll get hands on experience designing APIs for specific business needs using open source tools to generate documentation and building developer friendly components like mocks and client SDKs What s inside OpenAPI syntax and structure Using Swagger to create OpenAPI definitions Automating processes and generating code Working with cross functional teams About the reader For web developers No prior knowledge of Swagger or OpenAPI required About the author Josh Ponelat is the Swagger Open Source lead at SmartBear Lukas Rosenstock is an independent software developer and API consultant

Postman Cookbook Oliver James, 2024-02-29 For developers programmers and DevOps engineers venturing into the hard world of API development the Postman Cookbook becomes a must read This short solutions book offers recipes and troubleshooting approaches to address typical API lifecycle management challenges Using Postman s rich features readers of all skill levels will learn how to create APIs that will improve workflows increase productivity and lead to operational success The book covers a wide range of topics from the fundamentals of web based communication to more complex topics including protocol stacks secure communication protocols and the dynamics of WebSockets interactions The following sections cover advanced subjects such as custom protocol handling network troubleshooting and proxy management allowing readers to confidently solve complex networking challenges This book covers more than simply the technical aspects of Kubernetes It discusses the influence of security measures maximizing performance and successful scaling solutions These features are critical for microservice architectures and cloud native apps This book teaches early developers and programmers the foundations of API testing and development including networking and protocols Upon completion of this book readers will have a thorough understanding of API development with Postman They will be able to confidently handle the problems of modern computing Key Learnings Enable real time API connectivity for dynamic apps using WebSockets capability Protect API endpoints from security flaws by configuring SSL TLS in Postman Define implement

and debug bespoke protocols to connect proprietary systems to Postman Master the art of network optimization and troubleshooting using Postman to ensure your API runs smoothly Use Postman s proxy management to safely access APIs in a variety of network settings Test APIs in Kubernetes and improve the deployment and development of microservices Exploit Postman s features for thorough API tracking logging and analysis of performance Secure API access with Postman s advanced authentication flows OAuth JWT and more Table of Content 1 Up and Running with Postman 2 Designing Simple to Complex APIs 3 Advanced API Requests and Workflows 4 Testing and Securing APIs 5 Managing GraphQL and gRPC with Postman 6 Continuous Integration and Deployment CI CD 7 API Scalability and Performance 8 Integration with Third Party Services 9 Working with Kubernetes and Microservices 10 API Networking and Protocols **Web Engineering** Tommi Mikkonen,Ralf Klamma,Juan Hernández,2018-05-24 This book constitutes the refereed proceedings of the 18th International Conference on Web Engineering ICWE 2018 held in Ceres Spain in June 2018 The 18 full research papers and 17 short papers presented together with 2 practice papers 6 demonstration papers and 5 tutorials were carefully reviewed and selected from 103 submissions The papers cover research areas such as Web application modeling and engineering Web infrastructures and architectures execution models human computation and crowdsourcing applications Web application composition and mashups Social Web applications Semantic Web applications Web of Things applications big data and data analytics and security privacy and identity *Software for People* Alexander Maedche,Achim Botzenhardt,Ludwig Neer,2012-09-15 This book provides key insights into current trends of software product management software development and user centered design of software Includes cross industry best practice cases from well known companies **The Definitive Guide to NetBeans Platform** Heiko Bock,2009-07-31 The Definitive Guide to NetBeans™ Platform is a thorough and definitive introduction to the NetBeans Platform covering all its major application programming interfaces APIs in detail with relevant code examples used throughout The original German book on which this title is based was well received The NetBeans platform community has put together this English translation which author Heiko B ck updated to cover NetBeans platform 6 5 APIs With an introduction by known NetBeans platform experts Jaroslav Tulach Tim Boudreau and Geertjan Wielenga this is the most up to date book on this topic All NetBeans platform developers will be interested in purchasing it because several topics in the book have not been documented anywhere else **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

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