RESTful Web API Design with Node.js

Second Edition

Design and implement efficient RESTful solutions with this practical hands-on guide

Valentin Bojinov

Restful Web Api Design With Node Js Second Edition

Remo H. Jansen

Restful Web Api Design With Node Js Second Edition:

RESTful Web API Design with Node.js Valentin Bojinov,2016-05-26 Design and implement efficient RESTful solutions with this practical hands on guide About This Book Create a fully featured RESTful API solution from scratch Learn how to leverage Node JS Express MongoDB and NoSQL datastores to give an extra edge to your REST API design Use this practical guide to integrate MongoDB in your Node js application Who This Book Is For The ideal target audience for this book is web developers who have some experience with RESTful services Familiarity with basic JavaScript programming techniques is required No prior experience with Node JS or Express js is required What You Will Learn Install develop and test your own Node js user modules Comprehend the differences between an HTTP and a RESTful application Optimize RESTful service URI routing with best practices Eliminate third party dependencies in your tests with mocking Learn about NoSQL data stores and integrate MongoDB in your Node js application with Mongoose Secure your services with NoSQL database integration within Node js applications Enrich your development skills to create scalable server side RESTful applications based on the Node js platform In Detail In this era of cloud computing every data provisioning solution is built in a scalable and fail safe way Thus when building RESTful services the right choice for the underlying platform is vital Node js with its asynchronous event driven architecture is exactly the right choice to build RESTful APIs This book will help you enrich your development skills to create scalable server side RESTful applications based on the Node js platform Starting with the fundamentals of REST you will understand why RESTful web services are better data provisioning solution than other technologies You will start setting up a development environment by installing Node js Express js and other modules Next you will write a simple HTTP request handler and create and test Node js modules using automated tests and mock objects You will then have to choose the most appropriate data storage type having options between a key value or document data store and also you will implement automated tests for it This module will evolve chapter by chapter until it turns into a full fledged and secure Restful service Style and approach Create state of the art RESTful API solutions leveraging Node JS 4 x

RESTful Web API Design with Node.js - Second Edition Saleh Hamadeh,2017 Explore the practical side of REST to build data centric applications with Node About This Video Work through a series of guidelines and best practices to efficiently design RESTful Web APIs with Node Understand the structure of APIs their authentication protocols and their implementation tools This practical guide provides the knowledge you need to delve into the endless possibilities enabled by Big Data In Detail RESTful Web APIs allow developers to create unprecedented applications by leveraging the data on the internet Since JavaScript is the language of the web building APIs using Node js provides a seamless development experience on both the front end and the back end This video course gives you an overview of a RESTful API and goes through the logical steps of building one It explores three different APIs focusing on their similarities and differences to effectively implement one We ll start off by defining APIs showing you how they can be built on top of HTTP and listing the properties

that make an API RESTful We will develop Twitter Notes a web application that lets its users leave notes for their Twitter friends We will use Twitter s API to implement a login flow and then design a web API In addition to using Twitter s API we will take a closer look at two other real world APIs Facebook API and GitHub API Finally we ll look at some best practices to keep the APIs secure maintainable and performing By the end of this course you will have a good grasp of APIs HTTP REST OAuth 1 0a API testing and site reliability performance and security Since the course explores three different REST APIs you will reach a level where you will be comfortable using any RESTful API even if it does not have an SDK *RESTful Web API Design with Node.js 10, Third Edition* Valentin Bojinov,2018-04-30 RESTful services have become the standard data feed providers for social services news feeds and mobiles If you want to build fast REST APIs and want to deliver a large amount of data to millions of users you ll find this book extremely useful This book will teach you to create scalable RESTful applications based on the Node js platform **Hands-On RESTful Web Services with TypeScript 3** Biharck Muniz Araújo,2019-03-27 A step by step guide that will help you design develop scale and deploy RESTful APIs with TypeScript 3 and Node js Key FeaturesGain in depth knowledge of OpenAPI and Swagger to build scalable web servicesExplore a variety of test frameworks and test runners such as Stryker Mocha and ChaiCreate a pipeline by Dockerizing your environment using Travis CI Google Cloud Platform and GitHubBook Description In the world of web development leveraging data is the key to developing comprehensive applications and RESTful APIs help you to achieve this systematically This book will guide you in designing and developing web services with the power of TypeScript 3 and Node js You ll design REST APIs using best practices for request handling validation authentication and authorization You ll also understand how to enhance the capabilities of your APIs with ODMs databases models and views as well as asynchronous callbacks This book will guide you in securing your environment by testing your services and initiating test automation with different testing approaches Furthermore you ll get to grips with developing secure testable and more efficient code and be able to scale and deploy TypeScript 3 and Node js powered RESTful APIs on cloud platforms such as the Google Cloud Platform Finally the book will help you explore microservices and give you an overview of what GraphQL can allow you to do By the end of this book you will be able to use RESTful web services to create your APIs for mobile and web apps and other platforms What you will learnExplore various methods to plan your services in a scalable wayUnderstand how to handle different request types and the response status codeGet to grips with securing web servicesDelve into error handling and logging your web services for improved debuggingUncover the microservices architecture and GraphQLCreate automated CI CD pipelines for release and deployment strategiesWho this book is for If you re a developer who has a basic understanding of REST concepts and want to learn how to design and develop RESTful APIs this book is for you Prior knowledge of TypeScript will help you make the most out of this book *Redux Quick Start Guide* James Lee,Tao Wei,Suresh Kumar Mukhiya,2019-02-28 Integrate Redux with React and other front end JavaScript frameworks efficiently and manage application states effectively Key FeaturesGet better

at building web applications with state management using ReduxLearn the fundamentals of Redux to structure your app more efficientlyThis guide will teach you develop complex apps that would be easier to maintainBook Description Starting with a detailed overview of Redux we will follow the test driven development TDD approach to develop single page applications We will set up JEST for testing and use JEST to test React Redux Redux Sage Reducers and other components We will then add important middleware and set up immutableJS in our application We will use common data structures such as Map List Set and OrderedList from the immutableJS framework We will then add user interfaces using ReactJS Redux Form and Ant Design We will explore the use of react router dom and its functions We will create a list of routes that we will need in order to create our application and explore routing on the server site and create the required routes for our application We will then debug our application and integrate Redux Dev tools We will then set up our API server and create the API required for our application We will dive into a modern approach to structuring our server site components in terms of Model Controller Helper functions and utilities functions We will explore the use of NodeJS with Express to build the REST API components Finally we will venture into the possibilities of extending the application for further research including deployment and optimization What you will learnFollow the test driven development TDD approach to develop a single page applicationAdd important middleware such as Redux store middleware redux saga middleware and language middleware to your applicationUnderstand how to use immutableJS in your applicationBuild interactive components using ReactJSConfigure react router redux and explore the differences between react router dom and react router reduxUse Redux Dev tools to debug your applicationSet up our API server and create the API required for our applicationWho this book is for This book is meant for JavaScript developers interesting in learning state management and building easy to maintain web applications

Database Computing for Scholarly Research Sandra R. Schloen,Miller C. Prosser,2023-12-23 This book discusses in detail a series of examples drawn from scholarly projects that use the OCHRE database platform Online Cultural and Historical Research Environment These case studies illustrate the wide range of data that can be managed with this platform and the wide variety of problems solved by OCHRE s item based graph data model The unique features and design principles of the OCHRE platform are explained and justified helping readers to imagine how the system could be used for their own data Data generated by studies in the humanities and social sciences is often semi structured fragmented highly variable and subject to many interpretations making it difficult to represent adequately in a conventional database The authors examine commonly used methods of data management in the humanities and offer a compelling argument for a different approach that takes advantage of powerful computational techniques for organizing scholarly information This book is achallenge to scholars in the humanities and social sciences asking them to expect more from technology as they pursue their research goals Written jointly by a software engineer and a research scholar each with many years of experience in applying database methods to diverse kinds of scholarly data it shows how scholars can make the most of their existing data while going beyond

the limitations of commonly used software tools to represent their objects of study in a more accurate nuanced and flexible way   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   **Learning Node.js** Marc Wandschneider,2013-06-20 Learning Node js A Hands On Guide to Building Web Applications in JavaScript Node js makes it far easier to create fast compact and reliable web network applications and web servers and is rapidly becoming indispensable to modern web developers Learning Node js brings together the knowledge and JavaScript code you need to build master the Node js platform and build server side applications with extraordinary speed and scalability You ll start by installing and running Node js understanding the extensions it uses and quickly writing your first app Next building on the basics you ll write more capable application servers and extend them with today s most powerful Node js tools and modules Finally you ll discover today s best practices for testing running Node js code on production servers and writing command line utilities Throughout the book author Marc Wandschneider teaches by walking you line by line through carefully crafted examples demonstrating proven techniques for creating highly efficient

applications and servers Build Node js solutions that leverage your current JavaScript skills Master Node js nonblocking IO and async programming Handle more requests and increase your application s flexibility Use and write your own modules Perform common JSON web server tasks Use browsers to generate pages on the fly via Ajax calls and template libraries Simplify development with the express framework Create database back ends using popular NoSQL and relational databases Deploy and run Node js apps on Unix OS X or Windows servers Take advantage of multiprocessor hardware Support virtual hosts and SSL HTTPS security Test Node js programs that mix synchronous async and RESTful server API functionality

Pro REST API Development with Node.js Fernando Doglio,2015-05-26 Pro REST API Development with Node js is your guide to managing and understanding the full capabilities of successful REST development API design 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 book will provide a brief background on REST and the tools it provides well known and not so well known Understand how there is more to REST than just JSON and URLs You will then cover and compare 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 *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 Building Microservices with Node.js Daniel Kapexhiu,2024-05-03 Venture into microservices with Node js uncovering step by step roadmaps insightful demonstrations and cutting edge techniques to build

robust web applications Key Features Explore microservices architecture and implement it using Node js for robust web applications Follow clear practical examples and real world use cases to apply your knowledge and build your skills Excel in the world of software development and tackle complex challenges with confidence Purchase of the print or Kindle book includes a free PDF eBook Book Description Immerse yourself in the world of microservices with this guide to migration from a monolithic architecture to microservices With this book you ll acquire a deep understanding of microservices architecture and apply it confidently in your web application projects As you progress you ll be guided through the process of creating a simple application and incorporating the Node js framework into it along with its commonly used libraries You ll learn how the framework operates how to configure it and how to develop handlers for the web framework and explore how to deploy your application to a production server Get to grips with the intricacies of JavaScript and Node js and find out how to approach microservices in Node js implement them effectively and integrate RESTful APIs Gain insights into service to service authentication and authorization and learn how to work with databases and caching as well as with monitoring and logging in microservices with Node js By the end of this microservices book you ll be able to develop a web app using the Node js framework configure it extend it using libraries available for this framework and launch it using best practices What you will learn Design domain oriented microservices using domain driven design DDD Understand collaboration techniques for inter microservice communication and learn how to design an API gateway Automate microservice integration and deployment Split a monolith safely into microservices and understand how to test microservices effectively Use and implement microservices in Kubernetes and Docker environments Get to grips with best practices for maintaining microservices at scale Who this book is for This book is for backend developers full stack developers software architects and frontend developers who want to venture into the world of backend development and extend their capabilities A fundamental understanding of the JavaScript ecosystem will be helpful but not necessary as this book will cover the essentials of backend development JavaScript programming and Node js   Building an API Product Bruno Pedro,2024-01-25 Unlock the power of APIs with expert guidance and techniques for successfully creating testing and maintaining products that align with customers and stand out in the market Key Features Understand the complete API product lifecycle from planning to implementation release and maintenance Design and support API products that distinguish themselves on the market by meeting user needs Implement actionable techniques for developing testing and securing a successful API product Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThe exponential increase in the number of APIs is evidence of their widespread adoption by companies seeking to deliver value to users across diverse industries making the art of building successful APIs an invaluable skill for anyone involved in product development With this comprehensive guide you ll walk through the entire process of planning designing implementing releasing and maintaining successful API products You ll start by exploring all aspects of APIs including their types technologies protocols and lifecycle stages Next you ll learn

how to define an API strategy and identify business objectives user personas and jobs to be done JTBD With these skills you ll delve into designing and validating API capabilities to create a machine readable API definition As you advance the book helps you understand how to choose the right language and framework for securely releasing an API server and offers insights into analyzing API usage metrics improving performance and creating compelling documentation that users love Finally you ll discover ways to support users manage versions and communicate changes or the retirement of an API By the end of this API development book you ll have the confidence and skills to create API products that truly stand out in the market What you will learn Master each stage of the API lifecycle Discover technologies and protocols employed in building an API product Understand the different API design definition and validation techniques Generate an API server from a machine readable definition Understand how to set up and analyze API monitors Familiarize yourself with the different gateways for releasing an API Find out how to create an API portal that attracts users Gain insights into planning and communicating API retirement to users Who this book is for Building an API Product is a guide for product managers and software developers navigating the world of APIs to build programmable products You don t have to be an experienced professional to learn from this book as long as you have basic knowledge of internet technologies and how users interact with a product   **ASP.NET MVC 4 Recipes** John Ciliberti,2013-04-01 ASP NET MVC 4 Recipes is a practical guide for developers creating modern web applications cutting through the complexities of ASP NET jQuery Knockout js and HTML 5 to provide straightforward solutions to common web development problems using proven methods based on best practices The problem solution approach gets you in out and back to work quickly while deepening your understanding of the underlying platform and how to develop with it Author John Ciliberti guides you through the framework and development tools presenting typical challenges along with code solutions and clear concise explanations to accelerate application development Inside you will find recipes dealing with streamlined syntax full control over HTML a simple API for creating RESTful web services writing support for test driven development and more Solve problems immediately by pasting in code from the recipes or put multiple recipe solutions together to overcome challenging development obstacles Dive head first into ASP NET MVC web development with ASP NET MVC 4 Recipes   **Hands-On RESTful Web Services with Go** Naren Yellavula,2020-02-28 Design production ready testable and maintainable RESTful web services for the modern web that scale easily Key FeaturesEmploy a combination of custom and open source solutions for application program interface API developmentDiscover asynchronous API and API security patterns and learn how to deploy your web services to the cloudApply design patterns and techniques to build reactive and scalable web servicesBook Description Building RESTful web services can be tough as there are countless standards and ways to develop API In modern architectures such as microservices RESTful APIs are common in communication making idiomatic and scalable API development crucial This book covers basic through to advanced API development concepts and supporting tools You ll start with an introduction to REST

API development before moving on to building the essential blocks for working with Go You ll explore routers middleware and available open source web development solutions in Go to create robust APIs and understand the application and database layers to build RESTful web services You ll learn various data formats like protocol buffers and JSON and understand how to serve them over HTTP and gRPC After covering advanced topics such as asynchronous API design and GraphQL for building scalable web services you ll discover how microservices can benefit from REST You ll also explore packaging artifacts in the form of containers and understand how to set up an ideal deployment ecosystem for web services Finally you ll cover the provisioning of infrastructure using infrastructure as code IaC and secure your REST API By the end of the book you ll have intermediate knowledge of web service development and be able to apply the skills you ve learned in a practical way What you will learnExplore the fundamentals of API development and web servicesUnderstand the various building blocks of API development in GoUse superior open source solutions for representational state transfer REST API developmentScale a service using microservices and asynchronous design patternsDeliver containerized artifacts to the Amazon Web Services AWS CloudGet to grips with API security and its implementationWho this book is for This book is for all the Go developers who are comfortable with the language and seeking to learn REST API development Even senior engineers can enjoy this book as it discusses many cutting edge concepts such as building microservices developing API with GraphQL using protocol buffers asynchronous API design and Infrastructure as a Code Developers who are already familiar with REST concepts and stepping into the Go world from other platforms such as Python and Ruby can also benefit a lot

Learning TypeScript 2.x Remo H. Jansen,2018-04-30 Exploit the features of TypeScript to easily create your very own web applications Key Features Develop modular scalable maintainable and adaptable web applications by taking advantage of TypeScript Walk through the fundamentals of TypeScript with the help of practical examples Enhance your web development skills using TypeScript 2 x Book Description TypeScript is an open source and cross platform statically typed superset of JavaScript that compiles to plain JavaScript and runs in any browser or host This book is a step by step guide that will take you through the use and benefits of TypeScript with the help of practical examples You will start off by understanding the basics as well as the new features of TypeScript 2 x Then you will learn how to work with functions and asynchronous programming APIs You will continue by learning how to resolve runtime issues and how to implement TypeScript applications using the Object oriented programming OOP and functional programming FP paradigms Later you will automate your development workflow with the help of tools such as Webpack Towards the end of this book you will delve into some real world scenarios by implementing some full stack TypeScript applications with Node js React and Angular as well as how to optimize and test them Finally you will be introduced to the internal APIs of the TypeScript compiler and you will learn how to create custom code analysis tools What you will learn Understand TypeScript in depth including its runtime and advanced type system features Master the core principles of the object oriented programming and functional

programming paradigms with TypeScript Save time using automation tools such as Gulp Webpack ts node and npm scripts Develop robust modular scalable maintainable and adaptable applications with testing frameworks such as Mocha Chai and Sinon JS Put your TypeScript skills to practice by developing full stack web applications with Node js React and Angular Use the APIs of the TypeScript compiler to build custom code analysis tool Who this book is for If you are a developer aiming to learn TypeScript to build attractive web applications this book is for you No prior knowledge of TypeScript is required However a basic understanding of JavaScript would be an added advantage   Node.js Design Patterns Mario Casciaro,Luciano Mammino,2020-07-29 Learn proven patterns techniques and tricks to take full advantage of the Node js platform Master well known design principles to create applications that are readable extensible and that can grow big Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Learn how to create solid server side applications by leveraging the full power of Node js Understand how Node js works and learn how to take full advantage of its core components as well as the solutions offered by its ecosystem Avoid common mistakes and use proven patterns to create production grade Node js applications Book DescriptionIn this book we will show you how to implement a series of best practices and design patterns to help you create efficient and robust Node js applications with ease We kick off by exploring the basics of Node js analyzing its asynchronous event driven architecture and its fundamental design patterns We then show you how to build asynchronous control flow patterns with callbacks promises and async await Next we dive into Node js streams unveiling their power and showing you how to use them at their full capacity Following streams is an analysis of different creational structural and behavioral design patterns that take full advantage of JavaScript and Node js Lastly the book dives into more advanced concepts such as Universal JavaScript scalability and messaging patterns to help you build enterprise grade distributed applications Throughout the book you ll see Node js in action with the help of several real life examples leveraging technologies such as LevelDB Redis RabbitMQ ZeroMQ and many others They will be used to demonstrate a pattern or technique but they will also give you a great introduction to the Node js ecosystem and its set of solutions What you will learn Become comfortable with writing asynchronous code by leveraging callbacks promises and the async await syntax Leverage Node js streams to create data driven asynchronous processing pipelines Implement well known software design patterns to create production grade applications Share code between Node js and the browser and take advantage of full stack JavaScript Build and scale microservices and distributed systems powered by Node js Use Node js in conjunction with other powerful technologies such as Redis RabbitMQ ZeroMQ and LevelDB Who this book is for This book is for developers and software architects who have some prior basic knowledge of JavaScript and Node js and now want to get the most out of these technologies in terms of productivity design quality and scalability Software professionals with intermediate experience in Node js and JavaScript will also find valuable the more advanced patterns and techniques presented in this book This book assumes that you have an intermediate understanding of web application development

databases and software design principles   <u>Building the Web of Things</u> Dominique Dom Guinard,Vlad M. Trifa,2016-06-06 Summary A hands on guide that will teach how to design and implement scalable flexible and open IoT solutions using web technologies This book focuses on providing the right balance of theory code samples and practical examples to enable you to successfully connect all sorts of devices to the web and to expose their services and data over REST APIs Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Because the Internet of Things is still new there is no universal application protocol Fortunately the IoT can take advantage of the web where IoT protocols connect applications thanks to universal and open APIs About the Book Building the Web of Things is a guide to using cutting edge web technologies to build the IoT This step by step book teaches you how to use web protocols to connect real world devices to the web including the Semantic and Social Webs Along the way you ll gain vital concepts as you follow instructions for making Web of Things devices By the end you ll have the practical skills you need to implement your own web connected products and services What s Inside Introduction to IoT protocols and devices Connect electronic actuators and sensors GPIO to a Raspberry Pi Implement standard REST and Pub Sub APIs with Node js on embedded systems Learn about IoT protocols like MQTT and CoAP and integrate them to the Web of Things Use the Semantic Web JSON LD RDFa etc to discover and find Web Things Share Things via Social Networks to create the Social Web of Things Build a web based smart home with HTTP and WebSocket Compose physical mashups with EVRYTHNG Node RED and IFTTT About the Reader For both seasoned programmers and those with only basic programming skills About the Authors Dominique Guinard and Vlad Trifa pioneered the Web of Things and cofounded EVRYTHNG a large scale IoT cloud powering billions of Web Things Table of Contents PART 1 BASICS OF THE IOT AND THE WOT From the Internet of Things to the Web of Things Hello World Wide Web of Things Node js for the Web of Things Getting started with embedded systems Building networks of Things PART 2 BUILDING THE WOT Access Web APIs for Things Implementing Web Things Find Describe and discover Web Things Share Securing and sharing Web Things   *Mastering Scalable Backends with Node.js and Express: Unlock the Secrets of Expert-Level Skills* Larry Jones,2025-03-13 Unlock the full potential of robust backend development with Mastering Scalable Backends with Node js and Express Unlock the Secrets of Expert Level Skills This comprehensive guide is meticulously crafted for experienced developers aiming to elevate their expertise Dive deep into Node js s event driven architecture and Express s flexibility to learn sophisticated techniques essential for building high performance scalable applications that meet the demands of today s dynamic technological landscape This book goes beyond fundamentals exploring advanced architecture design concurrency models and optimization strategies to enhance performance With detailed insights into real time applications and RESTful API design along with a focus on database integration and security best practices readers will acquire the nuanced skills necessary to tackle complex backend challenges Each chapter builds on the last offering a cohesive learning experience that leads to expert level mastery Whether

you re preparing applications for production deployment or integrating robust testing and debugging protocols this book equips you with the tools and knowledge to manage Node js applications at scale Experience unparalleled improvement in your backend development capabilities turning obstacles into opportunities and paving the way for innovative secure and efficient application architecture   *Professional JavaScript* Hugo Di Francesco,Siyuan Gao,Vinicius Isola,Philip Kirkbride,2019-09-30 Develop your JavaScript programming skills by learning strategies and techniques commonly used in modern full stack application development Key FeaturesWrite and deploy full stack applications efficiently with JavaScriptDelve into JavaScript s multiple programming paradigmsGet up to speed with core concepts such as modularity and functional programming to write efficient codeBook Description In depth knowledge of JavaScript makes it easier to learn a variety of other frameworks including React Angular and related tools and libraries This book is designed to help you cover the core JavaScript concepts you need to build modern applications You ll start by learning how to represent an HTML document in the Document Object Model DOM Then you ll combine your knowledge of the DOM and Node js to create a web scraper for practical situations As you read through further lessons you ll create a Node js based RESTful API using the Express library for Node js You ll also understand how modular designs can be used for better reusability and collaboration with multiple developers on a single project Later lessons will guide you through building unit tests which ensure that the core functionality of your program is not affected over time The book will also demonstrate how constructors async await and events can load your applications quickly and efficiently Finally you ll gain useful insights into functional programming concepts such as immutability pure functions and higher order functions By the end of this book you ll have the skills you need to tackle any real world JavaScript development problem using a modern JavaScript approach both for the client and server sides What you will learnApply the core concepts of functional programmingBuild a Node js project that uses the Express js library to host an APICreate unit tests for a Node js project to validate itUse the Cheerio library with Node js to create a basic web scraperDevelop a React interface to build processing flowsUse callbacks as a basic way to bring control backWho this book is for If you want to advance from being a frontend developer to a full stack developer and learn how Node js can be used for hosting full stack applications this is an ideal book for you After reading this book you ll be able to write better JavaScript code and learn about the latest trends in the language To easily grasp the concepts explained here you should know the basic syntax of JavaScript and should ve worked with popular frontend libraries such as jQuery You should have also used JavaScript with HTML and CSS but not necessarily Node js   Trust, Privacy and Security in Digital Business Javier Lopez,Simone Fischer-Hübner,Costas Lambrinoudakis,2017-08-11 This book constitutes the refereed proceedings of the 14th International Conference on Trust Privacy and Security in Digital Business TrustBus 2017 held in Lyon France in August 2017 in conjunction with DEXA 2017 The 15 revised full papers presented were carefully reviewed and selected from 40 submissions The papers are organized in the following topical sections Privacy in Mobile Environments

Transparence and Privacy Enhancing Technologies Security Measures Cloud IoT Security and Privacy Security Awareness and Social Engineering Policy Languages

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