# Node.js Design Patterns

Design and implement production-grade Node.js applications using proven patterns and techniques

**Third Edition** 





Mario Casciaro Luciano Mammino Packt>

# Node Js Design Patterns Casciaro Mario

**Lingsheng Yao** 

#### **Node Js Design Patterns Casciaro Mario:**

Node.js Design Patterns Mario Casciaro, 2014-12-30 If you re a JavaScript developer interested in a deeper understanding of how to create and design Node is applications this is the book for you *Node. Is Design Patterns* Mario Casciaro, Luciano Mammino, 2020-07-28 Learn proven patterns techniques and tricks to take full advantage of the Node is platform Master well known design principles to create applications that are readable extensible and that can grow big Key Features Learn how to create solid server side applications by leveraging the full power of Node js 14 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 is applications Book Description In 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 is applications with ease We kick off by exploring the basics of Node is 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 is 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 is in action with the help of several real life examples leveraging technologies such as LevelDB Redis RabbitMO 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 is streams to create data driven asynchronous processing pipelines Implement well known software design patterns to create production grade applications Share code between Node is 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 Node.js Design Patterns Mario Casciaro, Luciano Mammino, 2020-07-29 Learn proven patterns techniques and tricks to take full advantage of the Node is 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

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on sharing actionable knowledge you ll learn about the common categories of cryptographic operations that you can leverage in all apps you re developing including hashing encryption with symmetric asymmetric and hybrid ciphers and digital signatures You ll learn when to use these operations and how to choose and implement the most popular algorithms to perform them including SHA 2 Argon2 AES ChaCha20 Poly1305 RSA and Elliptic Curve Cryptography Later you ll learn how to deal with password and key management All code in this book is written in JavaScript and designed to run in Node is or as part of frontend apps for web browsers By the end of this book you ll be able to build solutions that leverage cryptography to protect user privacy offer better security against an expanding and more complex threat landscape help meet data protection requirements and unlock new opportunities What you will learnWrite JavaScript code that uses cryptography running within a Node is environment for the server side or in frontend applications for web browsers Use modern safe hashing functions for calculating digests and key derivation including SHA 2 and Argon2Practice encrypting messages and files with a symmetric key using AES and ChaCha20 Poly1305Use asymmetric and hybrid encryption leveraging RSA and Elliptic Curve Cryptography with ECDH and ECIESCalculate and verify digital signatures using RSA and ECDSA EdDSAManage passwords and encryption keys safelyWho this book is for This cryptography book is an introductory guide for software developers who don't necessarily have a background in cryptography but are interested in learning how to integrate it in their solutions correctly and safely You ll need to have at least intermediate level knowledge of building apps with JavaScript and familiarity Node Cookbook Bethany Griggs, 2020-11-25 Discover practical recipes to get with Node is to make the most of this book to grips with Node is concepts and programming models for delivering a scalable server side for your applications Key FeaturesImplement practical solutions for scaling securing and testing your Node js web apps effectivelyBuild and deploy scalable microservices architecture with the power of Node is 14Discover techniques for debugging and testing Node is applicationsBook Description A key technology for building web applications and tooling Node js brings JavaScript to the server enabling full stack development in a common language This fourth edition of the Node Cookbook is updated with the latest Node is features and the evolution of the Node is framework ecosystems. This practical guide will help you to get started with creating debugging and deploying your Node is applications and cover solutions to common problems along with tips to avoid pitfalls You ll become familiar with the Node js development model by learning how to handle files and build simple web applications and then explore established and emerging Node js web frameworks such as Express js and Fastify As you advance you ll discover techniques for detecting problems in your applications handling security concerns and deploying your applications to the cloud This recipe based guide will help you to easily navigate through various core topics of server side web application development with Node js By the end of this Node book you ll be well versed with core Node js concepts and have gained the knowledge to start building performant and scalable Node is applications What you will learnUnderstand the Node js asynchronous programming modelCreate simple Node js applications using modules and web

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significantly since the early days of the internet and they continue to shape the way we communicate work and access information In this overview we will delve into the fundamental web technologies that make the internet work including protocols languages and frameworks An Effective Guide to Modern JavaScript Chong Lip Phang, 2017-08-08 ES8 was finalized in June 2017 This book effectively teaches standard JavaScript from A to Z includes all the JavaScript common APIs presented in a highly organized fashion lists in the Appendix the new features introduced in each JavaScript edition from ES5 to ES8 and beyond and illustrates all of them clearly explains advanced concepts such as closures Proxy generators Promise async functions and Atomics covers OOP techniques classical JavaScript OOP the new class syntax data encapsulation multiple inheritance abstract classes object relay etc teaches you how to define and use iterators and various iterables turns you into an efficient JavaScript coder Mastering Front-End Web Development (HTML, Bootstrap, CSS, SEO, Cordova, SVG, ECMAScript, JavaScript, WebGL, Web Design and many more.) Chong Lip Phang, 2020-11-20 This book has won 7 awards from Book Authority https bookauthority org award Mastering Front End Web Development B08NS9[6RY best web development books As opposed to back end web development which deals with servers front end web development focuses on the end users interactions with a website on a browser A skillful front end web developer knows more than just the basics of HTML CSS and JavaScript Going beyond the major web based languages this book represents an attempt to compile all the knowledge needed to become a professional front end web developer. The reader will be introduced to more than 200 web extensions frameworks tools and libraries along with a complete illustration of all Web APIs known to the world today Overview Markup Language Chapter 1 Development Environments Chapter 2 HTML 5 2 Chapter 3 Bootstrap 5 Chapter 4 CSS 3 Chapter 5 SEO Chapter 6 Cordova Chapter 7 SVG JavaScript Chapter 8 ECMAScript 2020 ES11 Chapter 9 HTML DOM Chapter 10 Advanced Web APIs Chapter 11 jQuery 3 5 Chapter 12 Extensions and Tools Chapter 13 Canvas Chapter 14 WebGL special note this book partially overlaps with two books by the same author 1 Web Coding Bible 18 Books in 1 2 An Effective Guide to Modern JavaScript ECMAScript 2017 ES8 <u>ECMAScript 2022</u> Chong Lip Phang, 2022-11-05 JavaScript is indubitably one of the most important programming languages today Not only is it the standard programming language for modern browsers its use at the back end Node is is gaining popularity fast Even mobile apps desktop applications and games for various platforms can be coded in JavaScript It is in fact the most tagged technology in StackOverflow the popular online discussion forum for programmers ES13 was finalized in June 2022 This book effectively teaches standard JavaScript from A to Z includes all the JavaScript common APIs presented in a highly organized fashion lists the new features introduced in each JavaScript edition from ES5 to ES13 and illustrates all of them clearly explains advanced concepts such as closures Proxy generators Promise async functions and Atomics covers OOP techniques classical JavaScript OOP the new class syntax data encapsulation multiple inheritance abstract classes object relay etc teaches you how to define and use iterators and various iterables turns you into an efficient JavaScript coder Source Codes https drive google com file d

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