

Request-response cycle in a MEAN stack application



Nodejs Mongodb And Angularjs Web Development

S Ben Porath



Nodejs Mongodb And Angularjs Web Development:

Node.js, MongoDB, and AngularJS Web Development Brad Dayley, 2014-06-05 The definitive guide to building JavaScript based Web applications from server to browser Node js MongoDB and AngularJS are three new web development technologies that together provide an easy to implement fully integrated web development stack Node js is a leading server side programming environment MongoDB is the most popular NoSQL database and AngularJS is quickly becoming the leading framework for MVC based front end development Together they allow web programmers to create high performance sites and applications built completely in JavaScript from server to client Node js MongoDB and AngularJS Web Development is a complete guide for web programmers who want to integrate these three technologies into full working solutions It begins with concise crystal clear tutorials on each of the three technologies and then quickly moves on to building several common web applications Readers will learn how to use Node js and MongoDB to build more scalable high performance sites how to leverage AngularJS s innovative MVC approach to structure more effective pages and applications and how to use all three together to deliver outstanding next generation Web solutions

Node.js, MongoDB and Angular Web Development

Brad Dayley, Brendan Dayley, Caleb Dayley, 2017-10-11 Node js MongoDB and Angular Web Development The definitive guide to using the MEAN stack to build web applications Node js is a leading server side programming environment MongoDB is the most popular NoSQL database and Angular is the leading framework for MVC based front end development Together they provide an easy to implement fully integrated web development stack that allows web programmers to create high performance sites and applications built completely in JavaScript from server to client Updated for Angular 2 Angular 4 and subsequent versions this new edition of Node js MongoDB and Angular Web Development shows you how to integrate these three technologies into complete working solutions It begins with concise crystal clear tutorials on each technology and then quickly moves on to building common web applications You ll learn how to use Node js and MongoDB to build more scalable high performance sites how to leverage Angular s innovative MVC approach to structure more effective pages and applications and how to use all three together to deliver outstanding next generation Web solutions Implement a highly scalable and dynamic web server using Node js and Express Implement a MongoDB data store for your web applications Access and interact with MongoDB from Node js JavaScript code Learn the basics of TypeScript Define custom Angular directives that extend the HTML language Build server side web services in JavaScript Implement client side services that can interact with the Node js web server Build dynamic browser views that provide rich user interaction Add authenticated user accounts and nested comment components to your web applications and pages Contents at a Glance Part I Getting Started 1 Introducing the Node js to Angular Stack 2 JavaScript Primer Part II Learning Node js 3 Getting Started with Node js 4 Using Events Listeners Timers and Callbacks in Node js 5 Handling Data I O in Node js 6 Accessing the File System from Node js 7 Implementing HTTP Services in Node js 8 Implementing Socket Services in Node js 9 Scaling Applications Using

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Node.js, MongoDB and AngularJS Web Development LiveLessons

Brad Dayley, 2014 In this video training Brad Dayley starts by introducing the Node.js platform. He then introduces the NoSQL database MongoDB and describes how to configure and begin using it. The video then moves into incorporating high performance MongoDB databases into server-side Node.js applications and scripts. Next, the Express web server module for Node.js is covered, giving you the understanding you need to easily build up your own scalable web servers. The video then describes how to build out client-side applications using the AngularJS JavaScript framework. The video wraps up with some complete end-to-end examples of using the Node.js, MongoDB, and AngularJS framework. Resource description page

Getting MEAN with Mongo, Express, Angular, and Node Simon Holmes, Clive Harber, 2019-04-22 Summary Getting MEAN Second Edition teaches you how to develop full stack web applications using the MEAN stack. This edition was completely revised and updated to cover MongoDB 4, Express 4, Angular 7, Node 11, and the latest mainstream release of JavaScript ES2015. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Juggling languages, middleware, and application can radically slow down a full stack web project. The MEAN stack (MongoDB, Express, Angular, and Node) uses JavaScript end-to-end, maximizing developer productivity and minimizing context switching. And you'll love the results: MEAN apps are fast, powerful, and beautiful. About the Book Getting MEAN Second Edition teaches you how to develop full stack web applications using the MEAN stack. Practical from the very beginning, the book helps you create a static site in Express and Node. Expanding on that solid foundation, you'll integrate a MongoDB database, build an API, and add an authentication system. Along the way, you'll get countless pro tips for building dynamic and responsive data-driven web applications. What's Inside MongoDB 4, Express 4, Angular 7, and Node.js 11, MEAN stack architecture, mobile-ready web apps, best practices for efficiency and reusability. About the Reader Readers should be comfortable with standard web application designs and ES2015-style JavaScript. About the Author Simon Holmes and Clive Harber are full stack developers with decades of experience in JavaScript and other leading-edge web technologies. Table of Contents PART 1: SETTING THE BASELINE Introducing full stack development Designing a MEAN stack architecture PART 2: BUILDING A NODE WEB APPLICATION Creating and setting up a MEAN project Building a static site with Node and

Express Building a data model with MongoDB and Mongoose Writing a REST API Exposing the MongoDB database to the application Consuming a REST API Using an API from inside Express PART 3 ADDING A DYNAMIC FRONT END WITH ANGULAR Creating an Angular application with TypeScript Building a single page application with Angular Foundations Building a single page application with Angular The next level PART 4 MANAGING AUTHENTICATION AND USER SESSIONS Authenticating users managing sessions and securing APIs Using an authentication API in Angular applications

Write Modern Web Apps with the MEAN Stack Jeff Dickey, 2015 Traditionally web applications have been architected so that the back end houses all the front end code This has resulted in heavy projects that are difficult to manage and scale This book will explain a new way to write web applications by treating the front end as if it were a third party such as a mobile client This book written by a practicing MEAN developer will take a holistic approach to using the MEAN JavaScript platform for creating modern web applications and lay out how to use the MEAN Mongo Express AngularJS and Node js set of tools to create a web application from installation and setup of the tools to debugging and deploying your app After an introduction to how web development is changing and the advantages of using the MEAN stack the author jumps into an introduction to each tool and then dives into using the complete JavaScript based application stack to build test and deploy apps

Write Modern Web Apps with the MEAN Stack Jeff Dickey, 2014 Annotation Traditionally web applications have been architected so that the back end houses all the front end code This has resulted in heavy projects that are difficult to manage and scale This book will explain a new way to write web applications by treating the front end as if it were a third party such as a mobile client This book written by a practicing MEAN developer will take a holistic approach to using the MEAN JavaScript platform for creating modern web applications and lay out how to use the MEAN Mongo Express AngularJS and Node js set of tools to create a web application from installation and setup of the tools to debugging and deploying your app After an introduction to how web development is changing and the advantages of using the MEAN stack the author jumps into an introduction to each tool and then dives into using the complete JavaScript based application stack to build test and deploy apps

Node. Js, MongoDB, and AngularJS Web Development (Developer's Library) Harley A. Coleman, 2015-08-10 Thought provoking and accessible in approach this updated and expanded second edition of the Node js MongoDB and AngularJS Web Development Developer s Library 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

Web Development with MongoDB and NodeJS Mithun Satheesh, Bruno Joseph D'mello, Jason Krol, 2015-10-30 Build an interactive and full featured web application from scratch using Node js and MongoDB About This

Book Configure your development environment to use Node js and MongoDB Use Node js to connect to a MongoDB database and perform data manipulations A practical guide with clear instructions to design and develop a complete web application from start to finish Who This Book Is For This book is designed for JavaScript developers of any skill level that want to get up and running using Node js and MongoDB to build full featured web applications A basic understanding of JavaScript and HTML is the only requirement for this book What You Will Learn Configure your development environment to use Node js and MongoDB Write and configure a web server using Node js powered by the Express js framework Build dynamic HTML pages using the Handlebars template engine Persist application data using MongoDB and Mongoose ODM Test your code using automated testing tools such as the Mocha framework Deploy the development environment to the cloud using services such as Heroku Amazon Web Services and Microsoft Azure Explore Single Page application frameworks to take your web applications to the next level In Detail Node js and MongoDB are quickly becoming one of the most popular tech stacks for the web Powered by Google s V8 engine Node js caters to easily building fast scalable network applications while MongoDB is the perfect fit as a scalable high performance open source NoSQL database solution Using these two technologies together web applications can be built quickly and easily and deployed to the cloud with very little difficulty The book will begin by introducing you to the groundwork needed to set up the development environment Here you will quickly run through the steps necessary to get the main application server up and running Then you will see how to use Node js to connect to a MongoDB database and perform data manipulations From here on the book will take you through integration with third party tools for interaction with web apps It then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time Toward the end of the book we will cover tests to properly execute the code and some popular frameworks for developing web applications By the end of the book you will have a running web application developed with MongoDB and Node js along with it s popular frameworks Style and approach An easy guide to Node js and MongoDB which will quickly introduce you to the relevant concepts by taking you through the different steps involved in building a full fledged web application Node.js+MongoDB+AngularJS Web Kai fa ,2015 *Web Technology* Akshi Kumar,2018-08-06 This book intends to expound the complete concept of Web in Theory Web in Research and Web in Practice with the help of worked out examples for better understanding Planned as a comprehensive reading for beginners and a reference for advanced learners the book includes latest developments and approaches related to the World Wide Web

Learning AngularJS Brad Dayley,2015 Learning AngularJS shows you how to create powerful interactive web applications that have a well structured reusable code base that will be easy to maintain You ll also learn how to leverage AngularJS s innovative MVC approach to implement well designed and well structured web pages and web applications AngularJS helps you to become a better web developer by forcing you to adhere to underlying structure and design rules Back cover Node.js Web Development David Herron,2016-06-27 Create real time server side applications with this

practical step by step guide About This Book Learn about server side JavaScript with Node js and Node modules through the most up to date book on Node js web development Understand website development both with and without the Connect Express web application framework Develop both HTTP server and client applications Who This Book Is For This book is for anybody looking for an alternative to the P languages Perl PHP and Python or anyone looking for a new paradigm of server side application development You should have at least a rudimentary understanding of JavaScript and web application development What You Will Learn Install and use Node js for both development and deployment Use the Express application framework Configure Bootstrap for mobile first theming Use data storage engines such as MySQL SQLITE3 and MongoDB Understand user authentication methods including OAuth with third party services Deploy Node js to live servers including microservice development with Docker Perform unit testing with Mocha Perform functional testing of the web application with CasperJS In Detail Node js is a server side JavaScript platform using an event driven non blocking I O model allowing users to build fast and scalable data intensive applications running in real time Node js Web Development shows JavaScript is not just for browser side applications It can be used for server side web application development real time applications microservices and much more This book gives you an excellent starting point bringing you straight to the heart of developing web applications with Node js You will progress from a rudimentary knowledge of JavaScript and server side development to being able to create and maintain your own Node js application With this book you ll learn how to use the HTTP Server and Client objects data storage with both SQL and MongoDB databases real time applications with Socket IO mobile first theming with Bootstrap microservice deployment with Docker authenticating against third party services using OAuth and much more Style and Approach This book is a practical guide for anyone looking to develop striking and robust web applications using Node js

Full Stack JavaScript Development With MEAN Colin J Ihrig,Adam Bretz,2014-12-24 With modern tools it is possible to create a production grade full stack application using HTML CSS and JavaScript alone The combination of MongoDB Express AngularJS and Node js has become so popular that it has earned the title MEAN stack the subject of this book This book explores the MEAN stack in detail We will begin by covering Node js as it will lay the groundwork for all of our server side work You will learn how to get Node running on your local machine as well as download modules using npm The key aspects of the Node js programming model will also be covered From there we will move on to MongoDB where you ll learn how to interact with Mongo from a Node application You will also learn how to create retrieve update and delete data from a Mongo store After you have a solid grasp on Node and Mongo the book will move on to the Express web server We ll cover the basics of Express applications via topics like routes and middleware Building on previous chapters we will cover the integration of Node Mongo and Express Our coverage of the MEAN stack will wrap up with several chapters on AngularJS These chapters will cover Angular fundamentals like data binding directives controllers routing and services In an effort to explore competing technologies a slight introduction to Ember js will also be provided Full stack JavaScript is not

fully encompassed by the MEAN stack There is an entire ecosystem of JavaScript tools to learn about and this book will introduce a few of them We will cover task runners Gulp js and Grunt js which are extremely useful for automating mundane repetitive tasks We ll also cover JSHint a linting tool used to improve code quality Linting tools analyze source code and report potentials issues a feature that is especially useful in non compiled languages like JavaScript [MEAN Web Development](#) Amos Q. Haviv,2016-11-30 Develop your real time MEAN application efficiently using a combination of MongoDB Express Angular and Node About This Book Construct a fully functional MEAN application by using its components along with the best third party modules Harness the power of the JavaScript ecosystem to effectively run build and test your MEAN application Gain a deep practical understanding of real time web application development through real world examples Who This Book Is For If you are a JavaScript developer who is interested in building modern web applications using MongoDB Express Angular 2 and Node 5 0 then this book is for you You only need knowledge of JavaScript development What You Will Learn Use MongoDB to store and retrieve your application s data Connect your Express application to MongoDB and use the Mongoose module Manage your users authentication and offer them diverse login options using Passport Structure and use an Angular 2 application in your MEAN project Use Socket io to create real time communication between your client and server Test your application s Express and Angular 2 entities In Detail The MEAN stack is a collection of the most popular modern tools for web development that helps you build fast robust and maintainable web applications Starting with the MEAN core frameworks this pragmatic guide will explain the key concepts of each framework how to set them up properly and how to use popular modules to connect it all together By following the real world examples shown in this tutorial you will scaffold your MEAN application architecture add an authentication layer and develop an MVC structure to support your project development You will learn the best practices of maintaining clear and simple code and will see how to avoid common pitfalls Finally you will walk through the different tools and frameworks that will help expedite your daily development cycles Watch how your application development grows by learning from the only guide that is solely orientated towards building a full end to end real time application using the MEAN stack Style and approach This comprehensive guide covers every part of the MEAN stack and focuses on the gestalt power of the apps they can create through practical real world examples *AngularJS, JavaScript, and jQuery All in One, Sams Teach Yourself* Brad Dayley,Brendan Dayley,2015-07-17 Learn AngularJS JavaScript and jQuery Web Application Development In just a short time you can learn the basics of the JavaScript language jQuery library and AngularJS framework and find out how to use them to build well designed reusable components for web applications Sams Teach Yourself AngularJS JavaScript and jQuery All in One assumes absolutely no previous knowledge of JavaScript or jQuery The authors begin by helping students gain the relevant JavaScript skills they need introducing JavaScript in a way specifically designed for modern AngularJS web development Each short easy lesson builds on all that s come before teaching new concepts and techniques from the ground

up through practical examples and hands on problem solving As you complete the lessons in this book you ll gain a practical understanding of how to provide rich user interactions in your web pages adding dynamic code that allows web pages to instantly react to mouse clicks and finger swipes and interact with back end services to store and retrieve data from the web server Learn how to Create powerful highly interactive single page web applications Leverage AngularJS s innovative MVC approach to web development Use JavaScript in modern frameworks Implement JavaScript jQuery and AngularJS together in web pages Dynamically modify page elements in the browser Use browser events to interact with the user directly Implement client side services that interact with web servers Integrate rich user interface components including zoomable images and expandable lists Enhance user experience by creating AngularJS templates with built in directives Bind user interface elements and events to the data model to add flexibility and support more robust interactivity Define custom AngularJS directives to extend HTML s capabilities Build dynamic browser views to provide richer user interaction Create custom services you can integrate into many AngularJS applications Develop a well structured code base that s easy to reuse and maintain

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Web Development with MongoDB and Node Bruno Joseph D'mello,Mithun Satheesh,Jason Krol,2017-09-29 Use the two popular web development stacks Node js and MongoDB to build full featured web applications About This Book Learn the new ECMAScript along with Node 8 and MongoDB to make your application more effective Get the up to date information

required to launch your first application prototype using the latest versions of Node.js and MongoDB. A practical guide with clear instructions to designing and developing a complete web application from start to finish using trending frameworks such as Angular4 and hapi. Who This Book Is For: The book is designed for JavaScript developers of any skill level who want to get up and running using Node.js and MongoDB to build full featured web applications. A basic understanding of JavaScript and HTML is the only prerequisite for this book. What You Will Learn: Work with Node.js building blocks. Write and configure a web server using Node.js powered by the Express.js framework. Build dynamic HTML pages using the Handlebars template engine. Persist application data using MongoDB and Mongoose ODM. Test your code using automated testing tools such as the Mocha framework. Automate test cases using Gulp. Reduce your web development time by integrating third party tools for web interaction. Deploy a development environment to the cloud using services such as Heroku, Amazon Web Services, and Microsoft Azure. Explore single page application frameworks to take your web applications to the next level. In Detail: Node.js builds fast scalable network applications while MongoDB is the perfect fit as a high performance open source NoSQL database solution. The combination of these two technologies offers high performance and scalability and helps in building fast scalable network applications. Together they provide the power to manage any form of data as well as speed of delivery. This book will help you to get these two technologies working together to build web applications quickly and easily with effortless deployment to the cloud. You will also learn about Angular 4 which consumes pure JSON APIs from a hapi server. The book begins by setting up your development environment, running you through the steps necessary to get the main application server up and running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third party tools to interact with web apps. You will see how to use controllers and view models to generate reusable code that will reduce development time. Toward the end, the book supplies tests to properly execute your code and take your skills to the next level with the most popular frameworks for developing web applications. By the end of the book, you will have a running web application developed with MongoDB, Node.js, and some of the most powerful and popular frameworks.

Style and approach: A practical guide with clear instructions to designing and developing a complete web application from start to finish.

AngularJS Web Application Development Blueprints Vinci Rufus, 2014-08-25. If you are a web application developer interested in using AngularJS for a real life project, then this book is for you. As a prerequisite, knowledge of JavaScript and HTML is expected, and a working knowledge of AngularJS is preferred.

Learning Angular Brad Dayley, Brendan Dayley, Caleb Dayley, 2017-09-19. Learning Angular, Second Edition. A Hands On Guide to Angular 2 and Angular 4. Learning Angular teaches modern application development with Angular 2 and Angular 4. It begins with the basics of Angular and the technologies and techniques used throughout the book, such as key features of TypeScript, newer ES6 syntax, and concepts and details about the tools needed to write professional Angular applications. The reader will next build an Angular application from scratch while learning about the primary pieces

of an Angular application and see how they work together Using lots of examples the core parts of Angular will be introduced such as Components the Router and Services The book also covers techniques like server side rendering and how to incrementally add Angular 2 features to existing AngularJS applications Finally the reader will gain insight into advanced skills that should be part of any professional Angular developer s toolkit such as testing tooling options and performance tuning Understand how Angular is organized and learn best practices for designing Angular applications Quickly build Angular templates with built in directives that enhance the user experience Bind UI elements to your data model so changes to your model and UI occur automatically in tandem Define custom Angular directives that extend HTML Implement zoomable images expandable lists and other rich UI components Implement client side services that interact with web servers Build dynamic browser views to provide even richer user interaction Create custom services you can easily reuse Implement rich UI components as custom Angular directives Contents at a Glance Introduction What is Angular Why Use Angular Who this Book is For How to Use this Book Getting the Source Code Chapter 1 Jumping into JavaScript Setting Up a JavaScript Development Environment Defining Variables Understanding JavaScript Data Types Using Operators Implementing Looping Creating Functions Understanding Variable Scope Using JavaScript Objects Manipulating Strings Working with Arrays Adding Error Handling Chapter 2 Jumping into TypeScript Learning the Different Types Understanding Interfaces Implementing Classes Implementing Modules Understanding Functions Chapter 3 Getting Started with Angular Why Angular Understanding Angular Separation of Responsibilities Adding Angular to Your Environment Using the Angular CLI Creating a Basic Angular Application Chapter 4 Angular Components Component Configuration Building the Template Using Constructors Using External Templates Implementing Directives Chapter 5 Expressions Using Expressions Using Pipes Building a Custom Pipe Chapter 6 Data Binding Understanding Data Binding Interpolation Property Binding Attribute Binding Class Binding Style Binding Event Binding Two Way Binding Chapter 7 Built in Directives Understanding Directives Using Built in Directives Structural Directives Attribute Directives Chapter 8 Custom Directives Creating a Custom Attribute Directive Creating a Custom Directive with a Component Chapter 9 Events and Change Detection Using Browser Events Emitting Custom Events Using Observables Chapter 10 Implementing Angular Services in Web Applications Understanding Angular Services Using the Built in Services Sending HTTP GET and PUT Requests with the http Service Implementing a Simple Mock Server Using the http Service Changing Views with the router Service Implementing a Router with a Navigation Bar Implementing a Router with Parameters Chapter 11 Creating Your Own Custom Angular Service Integrating Custom Services into Angular Applications Implementing a Simple Application That Uses a Constant Data Service Implementing a Data Transform Service Implementing a Variable Data Service Implementing a Service that Returns a Promise Implementing a Shared Service Chapter 12 Having Fun with Angular Implementing an Angular Application That Uses the Animation Service Implementing an Angular Application That Zooms in on Images Implementing an Angular Application That Enables

Drag and Drop Implementing a Star Rating Angular Component

Sams Teach Yourself NoSQL with MongoDB in 24 Hours

Brad Dayley, 2015 NoSQL database usage is growing at a stunning 50% per year as organizations discover NoSQL's potential to address even the most challenging Big Data and real time database problems. Every NoSQL database is different but one is the most popular by far: MongoDB. Now in just 24 lessons of one hour or less, you can learn how to leverage MongoDB's immense power. Each short, easy lesson builds on all that's come before, teaching NoSQL concepts and MongoDB techniques from the ground up. Sams Teach Yourself NoSQL with MongoDB in 24 Hours covers all this and much more: Learning how NoSQL is different, when to use it, and when to use traditional RDBMSes instead; Designing and implementing MongoDB databases of diverse types and sizes; Storing and interacting with data via Java, PHP, Python, and Node.js; Mongoose; Choosing the right NoSQL distribution model for your application; Installing and configuring MongoDB; Designing MongoDB data models including collections, indexes, and GridFS; Balancing consistency, performance, and durability; Leveraging the immense power of Map Reduce; Administering, monitoring, securing, backing up, and repairing MongoDB databases; Mastering advanced techniques such as sharding and replication; Optimizing performance.

NoSQL with MongoDB in 24 Hours, Sams Teach Yourself Brad Dayley, 2014-08-21 NoSQL database usage is growing at a stunning 50% per year as organizations discover NoSQL's potential to address even the most challenging Big Data and real time database problems. Every NoSQL database is different but one is the most popular by far: MongoDB. Now in just 24 lessons of one hour or less, you can learn how to leverage MongoDB's immense power. Each short, easy lesson builds on all that's come before, teaching NoSQL concepts and MongoDB techniques from the ground up. Sams Teach Yourself NoSQL with MongoDB in 24 Hours covers all this and much more: Learning how NoSQL is different, when to use it, and when to use traditional RDBMSes instead; Designing and implementing MongoDB databases of diverse types and sizes; Storing and interacting with data via Java, PHP, Python, and Node.js; Mongoose; Choosing the right NoSQL distribution model for your application; Installing and configuring MongoDB; Designing MongoDB data models including collections, indexes, and GridFS; Balancing consistency, performance, and durability; Leveraging the immense power of Map Reduce; Administering, monitoring, securing, backing up, and repairing MongoDB databases; Mastering advanced techniques such as sharding and replication; Optimizing performance.

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