



Community Experience Distilled

Web Development with MongoDB and NodeJS

Second Edition

Build an interactive and full-featured web application from scratch
using Node.js and MongoDB

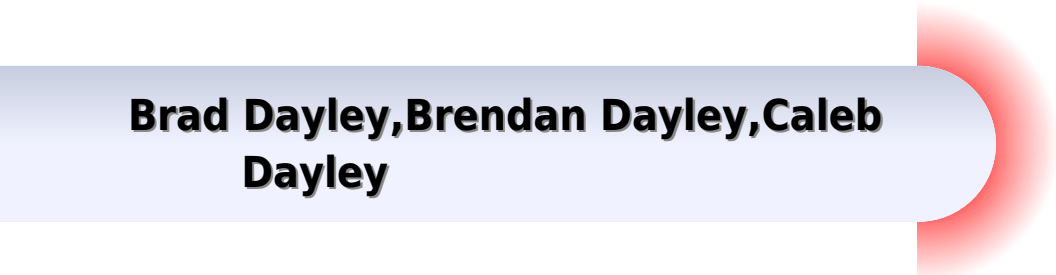
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Jason Krol

Bruno Joseph D'mello

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Web Development With Mongodb And Nodejs

**Brad Dayley, Brendan Dayley, Caleb
Dayley**



Web Development With Mongodb And Nodejs:

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

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 for 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 AngularJS 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.

[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

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Full Stack Development with MongoDB MANU SHARMA, 2022-04-21 Learn Full Stack Development Frontend Backend APIs and Mobile App with Python PHP Node.js React Native and MongoDB

KEY FEATURES Covers full stack development from start to finish including frontend backend API and mobile app development Includes well known programming environments such as Node.js React Native Python and PHP

Practical examples crisp code and detailed screenshots are provided for every chapter

DESCRIPTION Full Stack Development with MongoDB and Scaling Your Expertise to Web and Mobile App Development is the goal of this book Starting with the basics the book will assist any programmer and developer and those who deal with NodeJS PHP Python and React Native in setting up their working environment with MongoDB Various full stack configurations of libraries and frameworks for mobile and web applications are covered in length in this book REST API CRUD operations are also explained in a detailed manner The skills you learn to use PHP ExpressJS NodeJS Python and React Native become increasingly solid as time goes on Everything in this book has been explained so that once you begin working on the practical development while reading it you will be more experienced in software development both in web and mobile technologies when you finish reading it

WHAT YOU WILL LEARN Gain exposure to all of the fundamental concepts of Full Stack Development Run to perform PHP and MongoDB CRUD operations Learn how to build RESTful APIs Acquire expertise with popular web technologies such as Node js Express js Python and Django Framework Work with React Native and develop mobile applications based on MongoDB

WHO THIS BOOK IS FOR This book is for individuals interested in learning Full Stack Development with MongoDB and expanding their expertise to design web and mobile applications with MongoDB Readers with a working knowledge of MongoDB and any programming language can make maximum use of the book

TABLE OF CONTENTS Full Stack development with MongoDB Software Development Basic Topics 1 Client and Server Side Concepts and Introduction to MongoDB Drivers 2 Data Addition using MongoDB Compass Full Stack development with MongoDB Software Development Intermediate Topics 3 Starting up Programming with MongoDB and PHP 4 Starting up Programming with MongoDB and JavaScript Node js 5 Starting up Programming with MongoDB and React Native 6 Starting up Programming with MongoDB and Python 7 Full Stack Development using MongoDB Full Stack Development with MongoDB Software Development Advanced Topics 8 MongoDB Step by Step Practical Application Development Using PHP 9 MongoDB Step by Step Practical Application Development Using JavaScript Node js with Express js 10 MongoDB Step by Step Practical Mobile App Development Using React Native 11 MongoDB Step by Step Practical Web Development Using Python

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

Web Development with MongoDB and Node Bruno Joseph D'Mello,Mithun Satheesh,Jason Krol,2017 *Beginning Node.js, Express & MongoDB Development* Greg Lim,2019-07-10 In this book we take you on a fun hands on and pragmatic journey to learning Node js Express and MongoDB development You ll start building your first Node js app within minutes Every chapter is written in a bite sized manner and straight to the point as I don t want to waste your time and most certainly mine on the content you don t need In the end you will have the skills to create a blog app and deploy it to the Internet In the course of this book we will cover Chapter 1 Introduction Chapter 2 Introduction to npm Express Chapter 3 Beginning our Blog Project Chapter 4 Templating Engines Chapter 5 Introduction to MongoDB Chapter 6 Applying MongoDB to our Project Chapter 7 Uploading an Image with Express Chapter 8 Introduction to Express Middleware Chapter 9 Refactoring to MVC Chapter 10 User Registration Chapter 11 User Authentication with Express Sessions Chapter 12 Showing Validation Errors Chapter 13 Relating Post Collection with User Collection Chapter 14 Adding a WYSIWYG Editor Chapter 15 Using MongoDB Atlas Chapter 16 Deploying Web Apps on Heroku The goal of this book is to teach you Node js Express and MongoDB development in a manageable way without overwhelming you We focus only on the essentials and cover the material in a hands on practice manner for you to code along About the Reader No previous knowledge on Node js development required but you should have basic programming knowledge About the Author Greg Lim is a technologist and author of several programming books Greg has many years in teaching programming in tertiary institutions and he places special emphasis on learning by doing

[Full Stack JavaScript](#) Azat Mardan,2018-11-14 Learn agile JavaScript web development using the latest cutting edge front end and back end technologies including Node js MongoDB Backbone js Parse com Heroku and Microsoft Azure Using a key project example of a message board app you will learn the foundations of a typical web application fetching data displaying it and submitting new data Practical examples of

the app build are provided with multiple technologies and all code examples are in full color This book will save you many hours by providing a hand picked and tested collection of quick start guides that will enable you to spend less time learning and more time building your own applications Completely updated for this second edition Full Stack JavaScript uses current versions of all technologies including ES6 ES2015 and the latest versions of Node and npm Prototype fast and ship code that matters What You ll Learn Use a collection of quick start guides tutorials and suggestions to enhance several development apps Review virtually all setup and deployment step by step Work with Chat web mobile applications Put front end and back end components together and deploy them to production environment Who This Book Is For Programmers who want to learn more about effective JavaScript coding

Node.js, MongoDB and Angular Web Development, 2nd Edition Brad Dayley, Brendan Dayley, Caleb Dayley, 2017 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 Multiple Processors in Node js 10 Using Additional Node js Modules Part III Learning MongoDB 11 Understanding NoSQL and MongoDB 12 Getting Started with MongoDB 13 Getting Started with MongoDB and Node js 14 Manipulating MongoDB Documents from Node js 15 Accessing MongoDB from Node js 16 Using Mongoose for Structured Schema and Validation 17 Advanced MongoDB Concepts Part IV

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

Accelerated Web Development with Svelte and Node JS Maxwell Learning,2025-11-15 **Web Development with Node.js and MongoDB** Andrew Marcinkevičius,2016 Web development technology moves at a very fast pace with new tools and techniques being released daily It is impossible to learn them all but choosing similar technologies allows you to step up your game while developing web applications Web applications are often split into two parts the front end and the back end Using Node js for logic and MongoDB for persistence a single person can develop a real time web application in no time Node js is based on JavaScript which makes it easily adaptable for a wide variety of platforms It is also lightweight and handles a huge number of simultaneous connections Web Development with Node js and MongoDB will show you how to build powerful web applications from the ground up Starting with the simplest hello world based script and moving on to more and more advanced techniques this course will show you what is possible while building your application We ll begin with some of the basic concepts of Node js Express js and MongoDB and build on this knowledge with practical examples With each concept the application will get more powerful and you will be able to process any business logic you may need We will then learn about Express js to make web applications and MongoDB to persist your data Then you will find out how to build on the shoulders of giants by consuming a RESTful API or become a giant by serving your own API Later on you ll get to grips with automatically testing your application to make sure it is functioning properly At the end we will take a look at deploying our application and improving its performance The course closes with suggestions on further improvements that can be made to the application Resource description page **MEAN Stack Full-Stack Development: An In-Depth Guide to MongoDB, Express.js, Angular, and Node.js.** Adam Jones,2025-01-09 Immerse yourself in the world of MEAN stack development with the in depth guide MEAN Stack Full Stack Development An In Depth Guide to MongoDB Express js Angular and Node js Whether you re a software developer web developer computer science student or a professional aiming to hone your full stack skills this book offers invaluable insights From setting up your development environment to deploying robust scalable applications you ll explore each component of the MEAN stack MongoDB Express js Angular and Node js Harness the power of MongoDB for efficient data management leverage Express js for server side logic create dynamic and responsive user interfaces with Angular and execute JavaScript on the server with Node js Featuring detailed explanations practical examples and expert insights into advanced topics you ll master building secure high performing web applications

Additionally this book covers authentication and authorization RESTful APIs deployment strategies and the latest MEAN stack advanced practices and performance optimization techniques By the end you ll be equipped with the knowledge tools and best practices to confidently tackle any MEAN stack project Embark on your journey to becoming a proficient MEAN stack developer with this essential resource

Node.js By Example Krasimir Tsonev,2015-05-25 If you are a JavaScript developer with no experience with Node js or server side web development this book is for you It will lead you through creating a fairly complex social network You will learn how to work with a database and create real time communication channels

Node.js Web Development David Herron,2020-07-31 Build scalable web applications using Node js Express js and the latest ECMAScript techniques along with deploying applications with AWS and Docker with this updated fifth edition

Key Features Learn backend web programming with the JavaScript stack Explore best practices right from configuring and building web servers to deploying them on a production cloud hosting system AWS using Docker and Terraform Work through the different stages of developing robust and scalable apps using Node js

14 Book Description Node js is the leading choice of server side web development platform enabling developers to use the same tools and paradigms for both server side and client side software This updated fifth edition of Node js Web Development focuses on the new features of Node js

14 Express 4 x and ECMAScript taking you through modern concepts techniques and best practices for using Node js The book starts by helping you get to grips with the concepts of building server side web apps with Node js You ll learn how to develop a complete Node js web app with a backend database tier to help you explore several databases You ll deploy the app to real web servers including a cloud hosting platform built on AWS EC2 using Terraform and Docker Swarm while integrating other tools such as Redis and NGINX As you advance you ll learn about unit and functional testing along with deploying test infrastructure using Docker Finally you ll discover how to harden Node js app security use Let s Encrypt to provision the HTTPS service and implement several forms of app security with the help of expert practices With each chapter the book will help you put your knowledge into practice throughout the entire life cycle of developing a web app By the end of this Node js book you ll have gained practical Node js web development knowledge and be able to build and deploy your own apps on a public web hosting solution

What you will learn Install and use Node js 14 and Express 4 17 for both web development and deployment Implement RESTful web services using the Restify framework Develop test and deploy microservices using Docker Docker Swarm and Node js on AWS EC2 using Terraform Get up to speed with using data storage engines such as MySQL SQLite3 and MongoDB Test your web applications using unit testing with Mocha and headless browser testing with Puppeteer Implement HTTPS using Let s Encrypt and enhance application security with Helmet

Who this book is for If you re looking for an alternative to the P languages Perl PHP and Python or if you want to get started with server side web development with JavaScript programming or if you want a deep dive into deploying services to cloud hosting this Node js book is for you A rudimentary understanding of JavaScript and web application development is a

must before you get started with this book

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Deploying Node.js microservices with Docker

Deploying a Docker Swarm to AWS EC2 with Terraform

Unit Testing and Functional Testing

Security in Node.js Applications

Web Development with Node.js, MongoDB and Express

Joris Hermans, 2017

Node.js is the JavaScript runtime in the console

Now you can use JavaScript outside the browser

As a developer you need to know just one language to build an application for the World Wide Web

In this course we teach you how to use Node.js you will learn why Node.js is very easy to work with

Node.js is also built for asynchronous programming

With async functions now part of the JavaScript specification your code will look much better than before

We will assist you with writing this kind of code

One of the most used web framework in Node.js

Express.js will have no secret anymore for you

We touch on all the basics to build a modern web application with Node.js by using Express.js

With this course you will learn to build your own web application in Node.js

At the end of the course you will store search and manage data in MongoDB

Resource description page

[Node.js Web Development For Beginners](#)

Nathan Sebastian, 2024-04-25

Are you having trouble learning Node.js

Struggling to create a web application using Node.js

Node.js Web Development For Beginners is the guide you need to learn Node.js quickly and in the right order

With this book you will see and know how to develop a working web application from scratch using Node.js and Express

Each chapter explains a topic in plain English and includes practical code examples

There's also a full stack project included in this book that will give you the experience of building a web application using Node.js

Complete Source Code Included

Most books didn't come with the source code leaving you discouraged and unable to follow along

I believe you need to inspect and understand every part of the code used in this book

That's why I share the source code with you integrated at the end of each chapter

The source code is hosted on public repositories so you can revisit them whenever you need to refresh your memory or reinforce your understanding of specific topics

What You'll Learn

Understand how to use Node.js as a web server

Use Express as a web framework on top of Node.js

Connect MongoDB and Express in a secure and efficient way

Creating view templates using EJS

Develop applications using the MVC design pattern

Style Node.js application using Tailwind CSS

Implement User Authentication with Express sessions

Deploying Node.js application to production

Apply the latest techniques and best practices in Node.js development

Who is this for

Frontend developers who want to transition to full stack development

Backend developers who want to add Node.js to their skillsets

Anyone who wants to be a skilled Node.js developer

The book is designed to be easy to understand and accessible to anyone looking to learn Node.js

It provides a step by step gentle guide that will help you understand how to use Node.js to build a web application

Plus I take extra time to make sure my book is engaging and fun so you will stay motivated

Book Content

In the contents of this book we will cover

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to Node.js Chapter 2 Your First Node.js Project Chapter 3 Introduction to Express and Morgan Chapter 4 Using EJS Templating Engine for Views Chapter 5 Using Tailwind and DaisyUI for CSS Chapter 6 Creating a MongoDB Database Cluster Chapter 7 Integrating Mongoose to Express Chapter 8 Implementing the MVC Pattern Chapter 9 Developing User Authentication Chapter 10 Validating Form Inputs and Displaying Messages Chapter 11 Adding Login and Logout Functionalities Chapter 12 Protecting Routes With Middlewares Chapter 13 Create Read Update and Delete Customers Chapter 14 Handling Invoices Data Chapter 15 Using Chart.js On the Dashboard Chapter 16 Adding the Search Feature Chapter 17 Deploying Node.js Application

The goal of this book is to help you see how to develop an application using Node.js. We focus only on the essentials and immediately start a project once we cover the basic Node.js knowledge. You will see how Node.js, Express, and MongoDB can be used to create a dynamic and scalable web application. Requirements: No prior knowledge of Node.js is required to get the full benefit of this book, but you do need some basic knowledge of JavaScript. Accelerate Your Coding Journey: Stop wasting your precious time trying to connect incomplete tutorials from different sources. Instead, use this book and gain the Node.js knowledge you need to excel today. Here's my promise: You will know how to develop web applications using Node.js.

Ultimate Full-Stack Web Development with MERN Nabendu Biswas, 2023-12-02

Master Web Development with MERN Stack for Designing, Testing, and Deploying Professional Grade Applications using MongoDB, Express, React, and Node.js. KEY FEATURES: Step by step guidance on constructing an advanced MERN project from scratch. Holistic understanding of frontend (ReactJS), backend (NodeJS and ExpressJS), and database management (MongoDB). Learn effective testing strategies and debugging techniques for both frontend and backend code, ensuring the robustness and reliability of your MERN stack applications. DESCRIPTION: Embark on a transformative and disruptive journey into MERN stack development with **Ultimate Full Stack Web Development with MERN**. Beginning with an in-depth introduction to MERN and REST APIs, the book advances through the complete project overview and the setup of a Node.js application. Next, it delves into the essentials of Node.js, MongoDB connection models, and crucial aspects of user authentication, including JWT implementation and password hashing. Security takes center stage in next chapters as you explore middleware creation and route protection. In the Frontend section, you'll construct a dynamic ReactJS application with a focus on creating components, pages, and establishing Redux for state management. This book will guide you through setting up Redux, implementing registration and login functionalities, and refining your application with a user-friendly dashboard and task form. The book concludes with chapters on frontend and backend testing, ensuring the robustness of your application, and also covers deployment strategies for both frontend and backend components, providing a comprehensive guide to showcase your application to the world.

WHAT WILL YOU LEARN: Develop a strong foundation in MERN (MongoDB, Express.js, React, Node.js) stack technologies. Master the setup and configuration of Node.js applications, exploring essential concepts such as Express.js for efficient server-side development. Learn to connect and interact with MongoDB and create

models for effective data management Implement Secure User Authentication Protocols for Controlled Access to Web Apps and Enhanced Security Dive into ReactJS frontend development setting up dynamic interfaces creating components and leveraging React Router for seamless navigation Implement state management using Redux by creating slices setting up services and integrating registration and login functionalities Learn testing strategies for frontend and backend using tools like Jest and React Testing Library Navigate the deployment process for both frontend and backend on Netlify WHO IS THIS BOOK FOR This book is for developers with basic knowledge of JavaScript and ReactJS who want to become Full Stack JavaScript developers and create fully functioning apps The backend knowledge of NodeJS ExpressJS and MongoDB can be acquired as you progress through this book TABLE OF CONTENTS 1 Getting Started with MERN and Setup 2 Starting a NodeJS App 3 MongoDB Connection and Models 4 JWT Authentication and Hashing Password 5 Auth Middleware and Protecting Routes 6 Creating Frontend and React Router 7 Redux Setup with Slice 8 Login and Logout Functionalities 9 Dashboard Creation and Task Form 10 Using Thunk and Completing App 11 Frontend Testing 12 Backend Testing 13 Deployment Index

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 potential issues a feature that is especially useful in non compiled languages like JavaScript

Right here, we have countless book **Web Development With Mongodb And Nodejs** and collections to check out. We additionally meet the expense of variant types and as well as type of the books to browse. The within acceptable limits book, fiction, history, novel, scientific research, as with ease as various extra sorts of books are readily to hand here.

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