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The book follows a "Code first, explain later" approach, using practical examples in PHP to demonstrate unique features of MongoDB. This book is packed with step-by-step instructions and practical examples, along with challenges to test and improve your knowledge. This book assumes that you are experienced in web application development using PHP, HTML, and CSS. Having working knowledge of using a relational database system such as MySQL will help you grasp some of the concepts quicker, but it is not strictly mandatory. No prior knowledge of MongoDB is required. 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 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: Using Express to Make Life Easier 18 Implementing Express in Node.js 19 Implementing Express Middleware Part V: Learning Angular 20 Jumping into TypeScript 21 Getting Started with Angular 22 Angular Components 23 Expressions 24 Data Binding 25 Built-in Directives Part VI: Advanced Angular 26 Custom Directives 27 Events and Change Detection 28 Implementing Angular Services in Web Applications 29 Creating Your Own Custom Angular Services 30 Having Fun with Angular Delve into the world of web development with Vue.js, Node.js, and MongoDB by exploring essential JavaScript concepts on the client side and the server side Key FeaturesGet up and running with JavaScript, the most popular web development language in the worldCut through the complexity and focus on the simple aspects of web developmentBuild a simple web application using Vue.js, Node.js, and MongoDBBook Description JavaScript, the most widely used programming language in the world, has numerous libraries and modules and a dizzying array of need-to-know topics. Picking a starting point can be difficult. Enter JavaScript from Frontend to Backend. This concise, practical guide will get you up to speed in next to no time. This book begins with the basics of variables and objects in JavaScript and then moves quickly on to building components on the client-side with Vue.js and a simple list management application. After that, the focus shifts to the server-side and Node.js, where you'll examine the MVC model and explore the Express module. Once you've got to grips with

the server-side and the client-side, the only thing that remains is the database. You'll discover MongoDB and the Mongoose module. In the final chapter of this fast-paced guide, you'll combine all these pieces to integrate a Vue.js application into a Node.js server, using Express to structure the server code and MongoDB to store the information. By the end of this book, you will have the skills and confidence to successfully implement JavaScript concepts in your own projects and begin your career as a JavaScript developer. What you will learn

Trigger deferred processing with JavaScript  
Implement Express and MongoDB with Node.js  
Build components with Vue.js  
Understand how to create and use modules with Node.js  
Familiarize yourself with npm  
Build a client-side application entirely with JavaScript  
Dive into full stack development with Vue.js, Node.js, and MongoDB

Who this book is for  
This book is for JavaScript developers looking to strengthen their core JavaScript concepts and implement them in building full stack apps. Prior knowledge of HTML and CSS is a must. 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

Annotation  
With the rise of Web 2.0, the need for a highly scalable database, capable of storing diverse user-generated content is increasing. MongoDB, an open-source, non-relational database has stepped up to meet this demand and is being used in some of the most popular websites in the world. MongoDB is one of the NoSQL databases which is gaining popularity for developing PHP Web 2.0 applications.

PHP and MongoDB  
Web Development Beginners Guide is a fast-paced, hands-on guide to get started with web application development using PHP and MongoDB. The book follows a Code first, explain later approach, using practical examples in PHP to demonstrate unique features of MongoDB. It does not overwhelm you with information (or starve you of it), but gives you enough to get a solid practical grasp on the concepts. The book starts by introducing the underlying concepts of MongoDB. Each chapter contains practical examples in PHP that teach specific features of the database. The book teaches you to build a blogging application, handle user sessions and authentication, and perform aggregation with MapReduce. You will learn unique MongoDB features and solve interesting problems like real-time analytics, location-aware web apps etc. You

will be guided to use MongoDB alongside MySQL to build a diverse data back-end. With its concise coverage of concepts and numerous practical examples, *PHP and MongoDB Web Development Beginners Guide* is the right choice for the PHP developer to get started with learning MongoDB. This book is a mini tutorial full of code examples and strategies to give you plenty of options when building your own applications with MongoDB. This book is ideal for people who want to develop applications on the Node.js stack quickly and efficiently. Prior knowledge of the stack is not essential as the book briefly covers the installation of the core components and builds all aspects of the example application. The focus of the book is on what Mongoose adds to you applications, so experienced Node.js developers will also benefit. 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 This book is packed with step-by-step instructions and practical examples, along with accompanying screenshots and code for an easy learning curve. The needs of a beginner are totally satisfied by the book. This book assumes that you are experienced in

Ruby development skills - Ruby, HTML, CSS. Having knowledge of using NoSQL will help you get through the concepts quicker, but it is not mandatory. No prior knowledge of MongoDB required. Develop rich and scalable web applications with Node.js, Express.js, and MongoDB Key Features Learn the advanced features of Aurelia to build responsive web applications Write clean, modular, and testable code that will be easy to maintain and evolve Harness the power of JavaScript on the client and server side to build full-stack applications Book Description Hands-On Full Stack Web Development with Aurelia begins with a review of basic JavaScript concepts and the structure of an Aurelia application generated with the Aurelia-CLI tool. You will learn how to create interesting and intuitive application using the Aurelia-Materialize plugin, which implements the material design approach. Once you fully configure a FIFA World Cup 2018 app, you'll start creating the initial components through TDD practices and then develop backend services to process and store all the user data. This book lets you explore the NoSQL model and implement it using one of the most popular NoSQL databases, MongoDB, with some exciting libraries to make the experience effortless. You'll also be able to add some advanced behavior to your components, from managing the lifecycle properly to using dynamic binding, field validations, and the custom service layer. You will integrate your application with Google OAuth Service and learn best practices to secure your applications. Furthermore, you'll write UI Testing scripts to create high-quality Aurelia Apps and explore the most used tools to run end-to-end tests. In the concluding chapters, you'll be able to deploy your application to the Cloud and Docker containers. By the end of this book, you will have learned how to create rich applications using best practices and modern approaches. What you will learn Employ best practices and modern approaches to create frontend applications Learn about modern CSS preprocessors and improve the readability of your application Use the Aurelia framework to create navigable web applications Write your own tests, making your application secure and fault-tolerant Create solid RESTful APIs using the microservice architecture Understand the

NoSQL paradigm and get the best performance from your database Integrate third-party libraries such as Gmail for Single Sign On Write UI testing scripts and integration tests to build extensible apps Who this book is for Hands-On Full Stack Web Development with Aurelia is for you if you are a web or full-stack JavaScript developer who has experience with traditional stacks such as LAMP, MEAN, or MERN and wish to explore the power of Aurelia and new stack with modern web technologies. Pro MongoDB Development is about MongoDB, a NoSQL database based on the BSON (binary JSON) document model. The book discusses all aspects of using MongoDB in web applications: Java, PHP, Ruby, JavaScript are the most commonly used programming/scripting languages and the book discusses accessing MongoDB database with these languages. The book also discusses using Java EE frameworks Kundera and Spring Data with MongoDB. As NoSQL databases are commonly used with the Hadoop ecosystem the book also discusses using MongoDB with Apache Hive. Migration from other NoSQL databases (Apache Cassandra and Couchbase) and from relational databases (Oracle Database) is also discussed. What You'll Learn: How to use a Java client and MongoDB shell How to use MongoDB with PHP, Ruby, and Node.js as well How to migrate Apache Cassandra tables to MongoDB documents; Couchbase to MongoDB; and transferring data between Oracle and MongoDB How to use Kundera, Spring Data, and Spring XD with MongoDB How to load MongoDB data into Oracle Database and integrating MongoDB with Oracle Database in Oracle Data Integrator Audience: The target audience of the book is NoSQL database developers. Target audience includes Java, PHP and Ruby developers. The book is suitable for an intermediate level course in NoSQL database. This book is an updated and improved project-based guide to help you extend the capabilities of React into building full-stack projects by exploring the industry-tested MERN stack. Starting from the set up for your full-stack apps, you will learn to create the front end, back end, and everything in between by building fun and engaging projects. 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. 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 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. Table of Contents • About Node.js • Setting Up Node.js • Exploring Node.js Modules • HTTP Servers and Clients • Your First Express Application • Implementing the Mobile-First Paradigm • Data Storage and Retrieval • Authenticating Users with a Microservice • Dynamic Client/Server Interaction with Socket.IO • Deploying Node.js Applications to Linux Servers • 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 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. Leverage the power of D and the vibe.d framework to develop web applications that are incredibly fast

About This Book Utilize the elegant vibe.d framework to build web applications easily and REST backends with the D programming language

Learn about all components of vibe.d to enhance your web development with D

A hands-on guide to the vibe.d framework; from static web pages to template-based, interactive and localized web applications with database access and REST backends

Who This Book Is For Whether you are new to the world of D, or already have developed applications in D, or if you want to leverage the power of D for web development, then this book is ideal for you.

Basic knowledge of core web technologies like HTML 5 is helpful but not required. This book explains the difficult details to speed your web development.

What You Will Learn

- Create amazingly fast web applications with D
- Use Diet templates to easily create a web user interface
- Utilize the web framework for interactive applications with input validation and internationalization
- Access a database to provide persistent storage for your application
- Extend your application with a REST interface and

access other applications via REST

Understand vibe.d's fiber-based approach to asynchronous I/O and use it for integration of existing components

Create GUI applications with vibe.d

In Detail D is a programming language with C-like syntax and static typing. The vibe.d framework builds on powerful D concepts like template meta-programming and compile-time function execution to provide an easy-to-use environment for web applications. The combination of a feature-rich web programming framework with a language compiling to native code solves two common issues in web development today: it accelerates your development and it results in fast, native web applications. Learning the vibe.d framework before you start your application will help you to choose the right features to reach your goal.

This book guides you through all aspects of web development with D and the vibe.d framework. Covering the popular operating systems today, this guide starts with the setup of your development system. From the first Hello World-style application you will move on to building static web pages with templates. The concise treatment of web forms will give you all the details about form handling and web security. Using the abstractions of the web framework you will learn how to easily validate user input. Next, you will add database access to your application, providing persistent storage for your data. Building on this foundation, you will expose your component and integrate other components via REST. Learning about the internals of vibe.d you will be able to use low-level techniques such as raw TCP access. The vibe.d concepts can also be used for GUI clients, which is the next topic that you will learn. vibe.d is supported by an active community, which adds new functionality. This comprehensive guide concludes with an overview of the most useful vibe.d extensions and where to find them. It also shows you how to integrate these extensions in your application. The concepts are always illustrated with source code, giving you an insight into how to apply them in your application.

Style and approach A tutorial-style guide to develop web applications with D and the vibe.d framework. Each topic is explained in detail and illustrated with source code, providing you with hands-on assistance for your



application. Unlock the power of the MEAN stack by creating attractive and real-world projects

**About This Book**

- Build six optimum end-to-end web applications using the M.E.A.N stack
- Follow the advanced Angular.js 2 application structure to build more scalable and maintainable apps
- Integrate an authorization system into your application and reuse existing code from projects

**Who This Book Is For**

If you are a web developer with a basic understanding of the MEAN stack, experience in developing applications with JavaScript, and basic experience with NoSQL databases, then this book is for you.

**What You Will Learn**

- Build modern, end-to-end web applications by employing the full stack web development solution of MEAN
- Learn NoSQL databases and separate the client logic from the server code
- Build a complex application from start to finish and work with monetary data in MongoDB
- Handle a multi-user type system and authorize your users to access control list
- Implement a chat application from scratch using Socket.IO
- Create distributed applications and use the power of server-side rendering in your applications
- Extend a project with a real-time bidding system using WebSockets

**In Detail**

The MEAN stack is a combination of the most popular web development frameworks available-MongoDB, Angular, Express, and Node.js used together to offer a powerful and comprehensive full stack web development solution. It is the modern day web dev alternative to the old LAMP stack. It works by allowing AngularJS to handle the front end, and selecting Mongo, Express, and Node to handle the back-end development, which makes increasing sense to forward-thinking web developers. The MEAN stack is great if you want to prototype complex web applications. This book will enable you to build a better foundation for your AngularJS apps. Each chapter covers a complete, single, advanced end-to-end project. You'll learn how to build complex real-life applications with the MEAN stack and few more advanced projects. You will become familiar with WebSockets and build real-time web applications, as well as create auto-destructing entities. Later, we will combine server-side rendering techniques with a single page application approach. You'll build a fun project

and see how to work with monetary data in Mongo. You will also find out how to a build real-time e-commerce application. By the end of this book, you will be a lot more confident in developing real-time, complex web applications using the MEAN stack. Unlock the power of the MEAN stack by creating attractive and real-world projects

**About This Book**

Learn about the different components that comprise a MEAN application to construct a fully functional MEAN application using the best third-party modules

**A step-by-step guide to developing the MEAN stack components from scratch to achieve maximum flexibility when building an e-commerce application**

Build optimum end-to-end web applications using the MEAN stack

**Who This Book Is For**

This learning path is for web developers who are experienced in developing applications using JavaScript. This course is for developers who are interested in learning how to build modern and multiple web applications using MongoDB, Express, AngularJS, and Node.js.

**What You Will Learn**

- Build modern, end-to-end web applications by employing the full-stack web development solution of MEAN
- Connect your Express application to MongoDB and use a Mongoose model and build a complex application from start to finish in MongoDB
- Employ AngularJS to build responsive UI components
- Implement multiple authentication strategies such as OAuth, JsonWebToken, and Sessions
- Enhance your website's usability with social logins such as Facebook, Twitter, and Google
- Secure your app by creating SSL certificates and run payment platforms in a live environment
- Implement a chat application from scratch using Socket.IO
- Create distributed applications and use the power of server-side rendering in your applications
- Extend a project with a real-time bidding system using WebSockets

**In Detail**

The MEAN stack is a collection of the most popular modern tools for web development. This course will help you to build a custom e-commerce app along with several other applications. You will progress to creating several applications with MEAN. The first module in this course will provide you with the skills you need to successfully create, maintain, and test a MEAN application. Starting with MEAN core frameworks, this course will explain each framework key concepts of

MongoDB, Express, AngularJS, and Node.js. We will walk through the different tools and frameworks that will help expedite your daily development cycles. After this, the next module will show you how to create your own e-commerce application using the MEAN stack. It takes you step by step through the parallel process of learning and building to develop a production-ready, high-quality e-commerce site from scratch. It also shows you how to manage user authentication and authorization, check multiple payment platforms, add a product search and navigation feature, deploy a production-ready e-commerce site, and finally add your own high-quality feature to the site. The final step in this course will enable you to build a better foundation for your AngularJS apps. You'll learn how to build complex real-life applications with the MEAN stack and a few more advanced projects. You will become familiar with WebSockets, build real-time web applications, create auto-destructing entities, and see how to work with monetary data in Mongo. You will also find out how to build real-time e-commerce application. This learning path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: MEAN Web Development by Amos Haviv Building an E-Commerce Application with MEAN by Adrian Mejia MEAN Blueprints by Robert Onodi Style and approach This course will begin with the introduction to MEAN, gradually progressing with building applications in each framework. Each transition is well explained, and each chapter begins with the required background knowledge. 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 its 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. What would happen if you optimized a data store for the operations application developers actually use? You'd arrive at MongoDB, the reliable document-oriented database. With this concise guide, you'll learn how to build elegant database

applications with MongoDB and PHP. Written by the Chief Solutions Architect at 10gen—the company that develops and supports this open source database—this book takes you through MongoDB basics such as queries, read-write operations, and administration, and then dives into MapReduce, sharding, and other advanced topics. Get out of the relational database rut, and take advantage of a high-performing system optimized for operations and scale. Learn step-by-step the tools you need to build PHP applications with MongoDB Perform Create, Read, Update, and Delete (CRUD) operations, and learn how to perform queries to retrieve data Administer your database, and access and manipulate data with the MongoDB Shell Use functions to work with sets, arrays, and multiple documents to perform synchronous, asynchronous, and atomic operations Discover PHP's community tools and libraries, and why they're valuable Work with regular expressions, aggregation, MapReduce, replication, and sharding 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 A fast paced guide that will help

you to create, read, update and delete data using MongoDB Key Features Create secure databases with MongoDB Manipulate and maintain your database Model and use data in a No SQL environment with MongoDB Book Description MongoDB has grown to become the de facto NoSQL database with millions of users, from small start-ups to Fortune 500 companies. It can solve problems that are considered difficult, if not impossible, for aging RDBMS technologies. Written for version 4 of MongoDB, this book is the easiest way to get started with MongoDB. You will start by getting a MongoDB installation up and running in a safe and secure manner. You will learn how to perform mission-critical create, read, update, and delete operations, and set up database security. You will also learn about advanced features of MongoDB such as the aggregation pipeline, replication, and sharding. You will learn how to build a simple web application that uses MongoDB to respond to AJAX queries, and see how to make use of the MongoDB programming language driver for PHP. The examples incorporate new features available in MongoDB version 4 where appropriate. What you will learn Get a standard MongoDB database up and running quickly Perform simple CRUD operations on the database using the MongoDB command shell Set up a simple aggregation pipeline to return subsets of data grouped, sorted, and filtered Safeguard your data via replication and handle massive amounts of data via sharding Publish data from a web form to the database using a program language driver Explore the basic CRUD operations performed using the PHP MongoDB driver Who this book is for Web developers, IT professionals and Database Administrators (DBAs) who want to learn how to create and manage MongoDB databases. Learn Deno with TypeScript KEY FEATURES ● Take advantage of modern tools and frameworks like React and GraphQL. ● Exposure to the Deno ecosystem and many different third-party modules. ● Coverage of the creation of UIs and APIs for numerous apps. DESCRIPTION Deno is a web platform that offers capabilities for JavaScript and TypeScript and supports modern web standards. It is a straightforward, up-to-date, secure runtime environment for web developers. This book will teach all you need to

know about Deno's primitives, its ideas, and how you can use them to build applications that work in the real world. The book's first part is devoted to familiarizing you with Deno's runtime and comprehensive ecosystem. This book will help you to get familiar with TypeScript and experiment with Deno. The book will also help you to learn about GraphQL and Oak and build basic scripts. It will help you to design basic web applications such as a phonebook application and a to-do list application, both of which will have their user interfaces (UI) and APIs developed. This book will help you to get a good level of confidence with Deno over NodeJS so that you can start using Deno to build, maintain, and deploy web apps that are reliable and secure.

**WHAT YOU WILL LEARN**

- Get started with the basics of TypeScript and Deno.
- Use Deno to create your next React or Svelte app's user interface.
- Develop a GraphQL API server with Deno.
- Make the most of TypeScript when creating applications.
- Take advantage of the various plugins that Deno and its creators offer.

**WHO THIS BOOK IS FOR** Readers interested in utilizing the power of Deno to fuel their apps, whether they are web developers, TypeScript users, or JavaScript users will find this book helpful. The code will be easier to understand if you are familiar with JavaScript already.

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1. The Deno Land
2. Introduction to TypeScript
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6. Todos App - UI Implementation
7. Introduction to GraphQL, Oak, and Oak-GraphQL
8. PhoneBook App—API Implementation
9. PhoneBook App—UI Implementation

Wield the power of Python, React, and MongoDB to build web and data applications quickly and broaden your web development horizons

**Key Features** Learn how to build web applications without having to know the intricacies of the components Build full stack projects without compromising on development speed and app performance Prepare yourself for the diverse world of web development, analytics, and data visualization

**Book Description** If you need to develop web applications quickly, where do you turn? Enter the FARM stack. The FARM stack combines the power of the Python ecosystem with REST and MongoDB and makes building web applications easy and fast. This book is a fast-paced, concise, and hands-on

beginner's guide that will equip you with the skills you need to quickly build web applications by diving just deep enough into the intricacies of the stack's components. The book quickly introduces each element of the stack and then helps you merge them to build a medium-sized web application. You'll set up a document store with MongoDB, build a simple API with FastAPI, and create an application with React. Security is crucial on the web, so you'll learn about authentication and authorization with JSON Web Tokens. You'll also understand how to optimize images, cache responses with Redis, and add additional features to your application as well as explore tips, tricks, and best practices to make your development experience a breeze. Before you know it, you'll be deploying the application to different platforms. By the end of this book, you will have built a couple of functional applications efficiently and will have the springboard you need to delve into diverse and more specialized domains. What you will learn

Discover the flexibility of the FARM stack

Implement complete JWT authentication with FastAPI

Explore the various Python drivers for MongoDB

Discover the problems that React libraries solve

Build simple and medium web applications with the FARM stack

Dive into server-side rendering with Next.js

Deploy your app with Heroku, Vercel, Ubuntu Server and Netlify

Understand how to deploy and cache a FastAPI backend

Who this book is for This book is for web developers and analysts who want to include the power of a modern asynchronous Python framework, a flexible data store and a powerful UI library with the combination of two of the most important programming languages today in their web development toolkit.

Beginners in the field of information presentation will also find this book helpful. You must have a beginner-level understanding of Python, JavaScript, and HTML and CSS to get the most out of this book. 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 angular 4, which consumes pure JSON APOIs 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 Build an application from backend to browser with Node.js, and kick open the doors to real-time event programming. With this hands-on book, you'll learn how to create a social network application similar to LinkedIn and Facebook, but with a real-time twist. And you'll build it with just one programming language: JavaScript. If you're an experienced web developer unfamiliar with JavaScript, the book's first section introduces you to the project's core technologies: Node.js, Backbone.js, and the MongoDB data store. You'll then launch into the project—a highly responsive, highly scalable application—guided by clear explanations and lots of code examples. Learn about key modules in Node.js for building real-time apps Use the Backbone.js framework to write clean browser code, and maintain better data integration with MongoDB Structure project files as a foundation for code that will arrive later Create user accounts and learn how to secure the data Use Backbone.js templates to build the application's UIs, and integrate access control with Node.js Develop a contact list to help users link to and track other accounts Use Socket.io to create real-time chat functionality Extend your UIs to give users up-to-the-minute information Develop your real-time MEAN application efficiently using a combination of MongoDB, Express, Angular 2, and Node 5.0About 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 examplesWho This Book Is ForIf 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! Enrich your software design skills and take a guided tour of the wild, vast, and untamed frontier that is JavaScript development. Especially useful for frontend developers, this revision includes specific chapters on React and VueJS, as well as an updated one on Angular. To help you get the most of your new skills, each chapter also has a "further reading" section. This book will serve as an introduction to both new and well established libraries and frameworks, such as Angular, VueJS, React, Grunt, Yeoman, RequireJS, Browserify, Knockout, Kraken, Async.js, Underscore, and Lodash. It also covers utilities that have gained popular traction and support from seasoned developers and tools applicable to the entire development stack, both client- and server-side. While no single book can possibly cover every JavaScript library of value, *JavaScript Frameworks for Modern Web Development* focuses on incredibly useful

libraries and frameworks that production software uses. You will be treated to detailed analyses and sample code for tools that manage dependencies, structure code in a modular fashion, automate repetitive build tasks, create specialized servers, structure client side applications, facilitate horizontal scaling, and interacting with disparate data stores. What You'll Learn

Work with a variety of JavaScript frameworks, such as Angular, Vue, React, RequireJS, Knockout, and more

Choose the right framework for different types of projects

Employ the appropriate libraries and tools in your projects

Discover useful JavaScript development tools such as Grunt, Yeoman, Lodash, etc.

Who This Book Is For

Web developers of all levels of ability; particularly relevant for front-end developers, server-side coders, and developers interested in learning JavaScript. Bring the frontend and backend together with Vue, Vuex, and Node.js

Key Features

Construct modern web applications with Node 10, Express.js, MongoDB, and Vue

Leverage the latest web standards to increase code performance, readability, and cross-compatibility

Harness the power of the JavaScript ecosystem to effectively run, build, and test your full stack applications

Book Description

Isomorphic JavaScript was the buzzword of the year 2017, allowing developers to utilize a single language throughout their web development stack and build cost-effective and scalable applications. MEVN is a one such modern web development stack consisting of web applications such as MongoDB, Express.js, Vue.js, and Node.js. *Hands-On Full-Stack Web Development with Vue.js 2 and Node.js* leverages the harmony of these technologies to help you create full-stack web applications. Starting with the core frameworks, this example-based guide explains all the key concepts of frameworks, how to set them up properly, and how to use popular modules to connect them together and make them work cohesively. You will learn all this with the help of real-world examples. In addition to this, you will be able to scaffold web application architecture, add an authentication layer, and develop the MVC structure to support the development of your application. You'll explore how to create data models for your applications and then write REST APIs by exposing your data model to your

application. Solely orientated towards building a full, end-to-end application using the MEVN stack, this book will help you understand how your application development grows. What you will learn Build an application with Express.js Create schemas using Mongoose Develop a single-page application using Vue.js and Express.js Create RESTful APIs using Express.js Add test cases to improve the reliability of the application Learn how to deploy apps on Heroku using GitHub Add authorization using passports Who this book is for If you are a web or a full-stack JavaScript developer, and have tried your hand at traditional stacks such as LAMP, MEAN or MERN, or wish to explore a new stack with modern web technologies, then this book is for you. Prior knowledge of HTML, CSS, and JavaScript would be an added advantage. Assemble the complete stack required to build a modern web app using MongoDB, Express, React, and Node. This book also covers many other complementary tools: React Router, GraphQL, React-Bootstrap, Babel, and Webpack. This new edition will use the latest version of React (React 16) and the latest React Router (React Router 4), which has a significantly different approach to routing compared to React Router 2 which was used in the first edition of the book. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React 16. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React - hence the term MERN stack What You Will Learn Discover the features of React 16 to get the maximum out of this library Gain the basics of MongoDB, Express, and Node to build a web app Work with other libraries complementary to React, including React-Bootstrap, React Router, and GraphQL Use tools such as Babel and Webpack required to build JavaScript-based SPAs Tie all the components together to build a

complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required. 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. Take a deep dive into web development using the Go programming language to build web apps and RESTful services to create reliable and efficient software. Web Development with Go provides Go language fundamentals and then moves on to advanced web development concepts and successful deployment of Go web apps to the cloud. Web Development with Go will teach you how to develop scalable real-world web apps, RESTful services, and backend systems with Go. The book starts off by covering Go programming language fundamentals as a prerequisite for web development. After a thorough understanding of the basics, the book delves into web development using the built-in package, net/http. With each chapter you'll be introduced to new concepts for gradually building a real-

world web system. The book further shows you how to integrate Go with other technologies. For example, it provides an overview of using MongoDB as a means of persistent storage, and provides an end-to-end REST API sample as well. The book then moves on to demonstrate how to deploy web apps to the cloud using the Google Cloud platform. Web Development with Go provides: Fundamentals for building real-world web apps in Go Thorough coverage of prerequisites and practical code examples Demo web apps for attaining a deeper understanding of web development A reference REST API app which can be used to build scalable real-world backend services in Go A thorough demonstration of deploying web apps to the Cloud using the Google Cloud platform Go is a high-performance language while providing greater level of developer productivity, therefore Web Development with Go equips you with the necessary skills and knowledge required for effectively building robust and efficient web apps by leveraging the features of Go. 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 hapiWho This Book Is ForThe 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 levelIn DetailNode.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 angular 4, which consumes pure JSON APOIs 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 approachA practical guide with clear instructions to designing and developing a complete web application from start to finish Traditional web dev stacks use a different programming language in every layer, resulting in a complex mashup of code and frameworks. Developers and businesses love it because it's scalable and cost-effective. End users love it because the apps created with it are fast and responsive. It's a win-win-win! Getting MEAN, Second Edition is completely revised and updated to cover Angular 2, Node 6 and the latest mainstream release of JavaScript ES2015 (ES6). Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from



Manning Publications. Unleash the power of MERN stack by building diverse web applications using React, Node.js, Express, and MongoDB Key Features Create dynamic web applications with the MERN stack Leverage the power of React in building interactive and complex user interfaces Unlock the potential of Node, Express, and MongoDB to build modern full-stack applications Book Description The benefits of using a full JavaScript stack for web development are undeniable, especially when robust and widely adopted technologies such as React, Node, and Express and are available. Combining the power of React with industry-tested, server-side technologies, such as Node, Express, and MongoDB, creates a diverse array of possibilities when developing real-world web applications. This book guides you through preparing the development environment for MERN stack-based web development, to creating a basic skeleton application and extending it to build four different web applications. These applications include a social media, an online marketplace, a media streaming, and a web-based game application with virtual reality features. While learning to set up the stack and developing a diverse range of applications with this book, you will grasp the inner workings of the MERN stack, extend its capabilities for complex features, and gain actionable knowledge of how to prepare MERN-based applications to meet the growing demands of real-world web applications. What you will learn Set up your development environment and develop a MERN application Implement user authentication and authorization using JSON Web Tokens Build a social media application by extending the basic MERN application Create an online marketplace application with shopping cart and Stripe payments Develop a media streaming application using MongoDB GridFS Implement server-side rendering with data to improve SEO Set up and use React 360 to develop user interfaces with VR capabilities Learn industry best practices to make MERN stack applications reliable and scalable Who this book is for Full-Stack React Web Development Projects is for JavaScript developers who have some experience with React, but no previous experience with full-stack development involving Node, Express, and MongoDB, and who want

practical guidelines to start building different types of real-world web applications with this stack. 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 mid-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 Learn how to use the MERN stack (MongoDB, Express.js, React, and Node) to build five fully functioning web apps for dating, video sharing, messaging, and social media. While creating these web apps, you'll learn key development concepts including how to use React hooks, Redux, MongoDB, Express, Heroku, Firebase, Material UI, and Google authentication. By expanding your portfolio with the projects you create, you will be well equipped as front-end developer. You will first create a dating site with a swiping feature and chat functionality. You will then build a video sharing app with videos displaying vertically. Next, you will learn to build an awesome messaging web app. Users will be able to chat in real time, as well as log in to their account using Google authentication. You will also create a photo sharing app and social media web apps with the ability to post images with captions and log in using email and password authentication. Most MERN tutorials out there today cover basic web apps but it is capable of so much more - learn how to use this stack to its full potential and build projects that can be converted into full scaled start-ups with additional features. What You'll Learn Work with React hooks and React router Examine powerful MongoDB services for easy to use and setup Create routes using Node and host on Heroku Study different authentication techniques Deploy all sites using simple Firebase hosting Use the powerful React ecosystem to add functionalities to your apps Who This book Is For Those who have just started their career in web development and have basic knowledge of the core web technologies: HTML, CSS, and JavaScript. Those with basic React development and feel ready to explore its capabilities further. 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: Using Express to Make Life Easier 18 Implementing Express in Node.js 19 Implementing Express Middleware

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