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MEAN Web Development



Synopsis

Master real-time web application development using a mean combination of MongoDB, Express, AngularJS, and Node.js

About This Book Learn how to 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 web or a full-stack JavaScript developer who is interested in learning how to build modern web applications using the MEAN stack, this book is for you.

What You Will Learn Set up and run an Express application 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 AngularJS application in your MEAN project Use Socket.io to create real-time communication between your client and server Test your application's Express and AngularJS entities Develop your MEAN application more efficiently using popular third-party tools

In Detail The MEAN stack is a collection of the most popular modern tools for web development; it comprises MongoDB, Express, AngularJS, and Node.js. Starting with MEAN core frameworks, this project-based 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. 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!

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Chapitre 1 Introduction to MEAN This chapter begins with a brief introduction to the MEAN stack and is then a deep step by step guide on how to install and run MongoDB, NodeJS, NPM both on Windows, Mac OS X and Linux. It's the perfect starting point for newcomers. I will simply add that it's a better practice ? to install NodeJS using Node Version Manager (nvm) that with the official installation software. Chapter 2 - Getting Started with NodeJS After a brief history of why Ryan Dahl created NodeJS the author dives into explaining event-driven programming. You will learn how work an event loop and how a webserver with a non-blocking event-loop (nginx) differs from a blocking web-server (apache) in terms of concurrent access performance and memory consumption. Then you'll take a look at closures and why they are useful in callbacks. Finally you'll learn how to write your first NodeJS http server along with your first connect middleware. Chapter 3 - Building an Express Web App Time to go to the next step : writing your first Express application, managing sessions, using a template engine (EJS) and a routing scheme. This chapter takes the reader by the hand and is really descriptive on how to organize your application folder architecture and write your first application. However instead of using configuration files by environments (e.g. production, staging and development) I would recommend the reader to use environment variables (using a module like common-env + autoenv) since it's a way more flexible approach. Another missing point is to warn the reader to add a "private:true" inside its package.json file otherwise it could publish its application on npm by mistake.

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