Learning Single-page Web Application Development

Build powerful and scalable single-page web applications using a full stack JavaScript environment with Node.js, MongoDB, AngularJS, and the Express framework

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Learning Single Page Web Application Development

Michael Mikowski,Josh Powell

Learning Single Page Web Application Development:

   Learning Single-page Web Application Development Fernando Monteiro,2014-12-24 This book is aimed at web developers who are familiar with frontend technologies like JavaScript HTML and CSS and modern tools like Bower Yeoman and Grunt   *Pro Single Page Application Development* Gil Fink,Ido Flatow,SELA Group,2014-05-10 One of the most important and exciting trends in web development in recent years is the move towards single page applications or SPAs Instead of clicking through hyperlinks and waiting for each page to load the user loads a site once and all the interactivity is handled fluidly by a rich JavaScript front end If you come from a background in ASP NET development you ll be used to handling most interactions on the server side Pro Single Page Application Development will guide you through your transition to this powerful new application type The book starts in Part I by laying the groundwork for SPA development You ll master some JavaScript techniques that will come in useful later on and get to know the building blocks of a single page application including modules routing and MV frameworks In Part II you ll build the client for your application This is where the magic happens as the authors take you through the process step by step Backbone js is the ideal library for demonstrating SPA development in practice but you can apply the same principles with other frameworks in your future applications Part III takes you through the process of building the server side of your application using ASP NET Web API and hooking up the two parts of your application to create a working whole SPA development also comes with its own particular challenges including tracking history user interface performance and how to handle search engine optimization In the final chapters the authors guide you through some of these issues and advanced techniques and finish by showing you how to deploy your application As SPAs become the de facto standard of web application development the in depth Pro Single Page Application Development will be your one stop shop for creating fluid modern applications on the web   Single Page Web Applications Michael Mikowski,Josh Powell,2013-09-19 Summary In Single Page Web Applications you ll learn to build modern browser based apps that take advantage of stronger client platforms and more predictable bandwidth You ll learn the SPA design approach and then start exploring new techniques like structured JavaScript and responsive design And you ll learn how to capitalize on trends like server side JavaScript and NoSQL data stores as well as new frameworks that make JavaScript more manageable and testable as a first class language About this Book If your website is a jumpy collection of linked pages you are behind Single page web applications are your next step pushing UI rendering and business logic to the browser and communicating with the server only to synchronize data they provide a smooth user experience much like a native application But SPAs can be hard to develop manage and test Single Page Web Applications shows how your team can easily design test maintain and extend sophisticated SPAs using JavaScript end to end without getting locked into a framework Along the way you ll develop advanced HTML5 CSS3 and JavaScript skills and use JavaScript as the language of the web server and the database This book assumes basic knowledge of web development No experience with SPAs is

required Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications What s Inside Design build and test a full stack SPA Best in class tools like jQuery TaffyDB Node js and MongoDB Real time web with web sockets and Socket IO Touch controls for tablets and smartphones Common SPA design mistakes About the Authors The authors are architects and engineering managers Michael Mikowski has worked on many commercial SPAs and a platform that processes over 100 billion requests per year Josh Powell has built some of the most heavily trafficked sites on the web Table of Contents PART 1 INTRODUCING SPAS Our first single page application Reintroducing JavaScript PART 2 SPA CLIENT Develop the Shell Add feature modules Build the Model Finish the Model and Data modules PART 3 THE SPA SERVER The web server The server database Readying our SPA for production **Mastering JavaScript Single Page Application Development** Philip Klauzinski,John Moore,2016-10-28 An in depth guide to exploring the design architecture and techniques behind building sophisticated scalable and maintainable single page applications in JavaScript About This Book Build large scale feature complete SPAs by leveraging widely used tools and techniques Gain a solid understanding of architecture and SPA design to build applications using the library or framework of your choice Explore the various facets of SPA development to build web apps that are fast scalable and easy to test Who This Book Is For This book is ideal for JavaScript developers who want to build complex single page applications in JavaScript Some basic understanding of SPA concepts will be helpful but not essential What You Will Learn Organize your development environment using the command line with NPM Bower and Grunt Choose an accurate design pattern for your app Understand modular JavaScript programming and Node js Interact with a REST API using JavaScript and AJAX with practical examples Build a single page application using the MEAN stack Connect your app across popular social media platforms such as Facebook Twitter and LinkedIn Test your app both on the server side and in views Prepare your app for the real world and deploy it to Heroku In Detail Single page web applications or SPAs as they are commonly referred to are quickly becoming the de facto standard for web app development The fact that a major part of the app runs inside a single web page makes it very interesting and appealing Also the accelerated growth of browser capabilities is pushing us closer to the day when all apps will run entirely in the browser This book will take your JavaScript development skills to the next level by teaching you to create a single page application within a full stack JavaScript environment Using only JavaScript you can go from being a front end developer to a full stack application developer with relative ease You will learn to cross the boundary from front end development to server side development through the use of JavaScript on both ends Use your existing knowledge of JavaScript by learning to manage a JSON document data store with MongoDB writing a JavaScript powered REST API with Node js and Express and designing a front end powered by AngularJS This book will teach you to leverage the MEAN stack to do everything from document database design routing REST web API requests data binding within views and adding authentication and security to building a full fledged complex single page web application In addition to building a full stack JavaScript app you will learn

to test it with JavaScript powered testing tools such as Mocha Karma and Jasmine Finally you will learn about deployment and scaling so that you can launch your own apps into the real world Style and approach Following a structured approach this book helps readers gain expertise in SPA development Its thorough coverage of SPA architecture and design along with practical use cases provides readers with a clear path to building applications with the library of their choice For readers who are afraid to take the plunge straightaway the book also offers step by step guidance on developing a complex web app

Learn Java for Web Development Vishal Layka,2014-02-15 AngularJS is the leading framework for building dynamic JavaScript applications that take advantage of the capabilities of modern browsers and devices AngularJS which is maintained by Google brings the power of the Model View Controller MVC pattern to the client providing the foundation for complex and rich web apps It allows you to build applications that are smaller faster and with a lighter resource footprint than ever before Best selling author Adam Freeman explains how to get the most from AngularJS He begins by describing the MVC pattern and the many benefits that can be gained **Full-Stack React, TypeScript, and Node** David Choi,2020-12-18 Discover the current landscape of full stack development and how to leverage modern web technologies for building production ready React js applications to deploy on AWS Key FeaturesUnderstand the architecture of React and single page applicationsBuild a modern Web API for your SPA using Node js Express and GraphQLGain a clear and practical understanding of how to build a complete full stack applicationBook Description React sets the standard for building high performance client side web apps Node js is a scalable application server that is used in thousands of websites while GraphQL is becoming the standard way for large websites to provide data and services to their users Together these technologies when reinforced with the capabilities of TypeScript provide a cutting edge stack for complete web application development This book takes a hands on approach to implementing modern web technologies and the associated methodologies for building full stack apps You ll begin by gaining a strong understanding of TypeScript and how to use it to build high quality web apps The chapters that follow delve into client side development with React using the new Hooks API and Redux Next you ll get to grips with server side development with Express including authentication with Redis based sessions and accessing databases with TypeORM The book will then show you how to use Apollo GraphQL to build web services for your full stack app Later you ll learn how to build GraphQL schemas and integrate them with React using Hooks Finally you ll focus on how to deploy your application onto an NGINX server using the AWS cloud By the end of this book you ll be able to build and deploy complete high performance web applications using React Node and GraphQL What you will learnDiscover TypeScript s most important features and how they can be used to improve code quality and maintainabilityUnderstand what React Hooks are and how to build React apps using themImplement state management for your React app using ReduxSet up an Express project with TypeScript and GraphQL from scratchBuild a fully functional online forum app using React and GraphQLAdd authentication to your web app using RedisSave and retrieve data from a

Postgres database using TypeORMConfigure NGINX on the AWS cloud to deploy and serve your appsWho this book is for The book is for web developers who want to go beyond front end web development and enter the world of full stack web development by learning about modern web technologies and how they come together A good understanding of JavaScript programming is required before getting started with this web development book **Essential ASP.NET Web Forms Development** Robert E. Beasley,2020-03-12 Go from beginner to pro using one of the most effective and widely used technology stacks Microsoft ASP NET Beginning with the basics you will learn how to create interactive professional grade database driven web applications in no time using ASP NET C SQL Ajax and JavaScript Essential ASP NET Web Forms Development is divided into six learning modules and will take you from soup to nuts with ASP NET Part I is an introduction to the major concepts methodologies and technologies associated with NET web application development You will learn about the client server model the NET Framework the ASP NET and C programming languages and the Visual Studio integrated development environment Part II teaches you how to develop a single page NET web application and add server and data validation controls laying the foundation for learning languages in the context of an ASP NET web application Part III is all about C operations and shows you how to perform assignment operations conversion operations control operations string operations arithmetic operations date and time operations array operations collection operations and file system operations as well as create custom C classes in the context of a NET web application In Part IV you dive into a multiple page NET web application and learn how to maintain state between pages and create master pages themes and navigation controls Part V shows you how to connect a NET web application to a SQL Server database You will learn to read a database schema program in the SQL language utilize data binding perform single and multiple row database table maintenance and write code behind database operations And finally Part VI teaches you how to enhance the interactivity of a NET web application You will learn how to generate email messages make use of basic Ajax controls and the Ajax Control Toolkit and program in the JavaScript language What You Will Learn Delve into the basics of the client server model the NET Framework the ASP NET and C programming languages and the Visual Studio integrated development environment Create a page and add server and data validation controls Develop basic programming skills in the C language Maintain state between pages and create master pages themes and navigation controls Read a database schema program in the SQL language utilize data binding perform single and multiple row database table maintenance and write code behind database operations Generate email messages make use of basic Ajax controls and the Ajax Control Toolkit and program in the JavaScript language Who This Book Is For Anyone who wants to learn how to build ASP NET web applications Basic computer skills and the use of a database management system are recommended Instructormaterials and examples are available **Learning Angular for .NET Developers** Rajesh Gunasundaram,2017-06-30 Build efficient web apps and deliver great results by integrating Angular and the NET framework About This Book Become a more productive developer and learn to use frameworks that

implement good development practices Achieve advanced autocompletion navigation and refactoring in Angular using Typescript Follow a gradual introduction to the concepts with a lot of examples and explore the evolution of a production ready application Who This Book Is For If you are a NET developer who now wants to efficiently build single page applications using the new features that Angular 4 has to offer then this book is for you Familiarity of HTML CSS and JavaScript is assumed to get the most from this book What You Will Learn Create a standalone Angular application to prototype user interfaces Validate complex forms with Angular version 4 and use Bootstrap to style them Build RESTful web services that work well with single page applications Use Gulp and Bower in Visual Studio to run tasks and manage JavaScript packages Implement automatic validation for web service requests to reduce your boilerplate code Use web services with Angular version 4 to offload and secure your application logic Test your Angular version 4 and web service code to improve the quality of your software deliverables In Detail Are you are looking for a better more efficient and more powerful way of building front end web applications Well look no further you have come to the right place This book comprehensively integrates Angular version 4 into your tool belt then runs you through all the new options you now have on hand for your web apps without bogging you down The frameworks tools and libraries mentioned here will make your work productive and minimize the friction usually associated with building server side web applications Starting off with building blocks of Angular version 4 we gradually move into integrating TypeScript and ES6 You will get confident in building single page applications and using Angular for prototyping components You will then move on to building web services and full stack web application using ASP NET WebAPI Finally you will learn the development process focused on rapid delivery and testability for all application layers Style and approach This book covers everything there is to know about getting well acquainted with Angular 4 and NET without bogging you down Everything is neatly laid out under clear headings for quick consultation offering you the information required to understand a concept immediately with short relevant examples of each feature **Ultimate Node.js for Cross-Platform App Development: Learn to Build Robust, Scalable, and Performant Server-Side JavaScript Applications with Node.js** Ramesh Kumar,2024-02-06 Unleash the Power of Node js for Building Enterprise Grade Scalable Server Side Applications Key Features Master the essentials of building real time applications with a focus on Node js Express js Mongoose Socket IO Winston logging and key middleware Learn to create lightweight and scalable backend servers ensuring optimal performance for production ready applications Stay ahead of the curve by gaining proficiency in Node js positioning yourself for success in a rapidly evolving technological landscape Quick path to Node js expertise providing practical examples and insights to prepare you for the current and future demands of the tech landscape Book DescriptionUnlock the full potential of Node js for modern web development with this comprehensive handbook to developing applications and services The book will cover the fundamentals to advanced techniques and explore the intricacies of building powerful applications You will master Express server creation develop RESTful APIs with efficient

routing and dive into MongoDB for seamless data persistence It will uncover the nuances of template engines middleware and robust authentication methods Leverage Socket IO for real time capabilities and adeptly handle errors with effective logging The projects will double as versatile boilerplates for kickstarting your own development endeavors In the later chapter you will learn Test Driven Development with Mocha gain insights into debugging and perfect the art of building and deploying Node js applications Each example in the book adheres to common best practices providing valuable insights to help you avoid common pitfalls Designed as both a learning resource and a reference guide this book equips you with the knowledge to tackle challenging problems at any stage of development What you will learn Develop a robust Express server to streamline your development process Delve deep into creating RESTful APIs with efficient routing techniques Master the utilization of template engines to elevate your project sophistication Enhance your applications by incorporating middleware for extended capabilities Harness the power of Socket IO to add dynamism and interactivity to your projects Implement Test Driven Development TDD using Mocha to ensure code reliability Grasp the intricacies of constructing and deploying Node js applications effectively Explore the evolving landscape of Node js staying at the forefront of emerging web development trends Table of Contents1 Getting Started with Node js 2 Deep Dive into Node js 3 Introducing Express js 4 Creating REST API and Routing 5 Working with MongoDB 6 Data Persistence 7 Template Engines 8 Middleware Functions 9 Authentication and Authorization 10 Socket IO 11 Handling and Logging Errors 12 TDD with Mocha and Chai 13 Debugging 14 Build and Deployments 15 Future Scope Index __Learning Blazor__ David Pine,2022-09-26 Take advantage of your C skills to build UI components and client side experiences with NET With this practical guide you ll learn how to use Blazor WebAssembly to develop next generation web experiences Built on top of ASP NET Core Blazor represents the future of NET single page application investments Author David Pine who focuses on NET and Azure content development at Microsoft explains how WebAssembly enables many non JavaScript based programming languages to run on the client browser In this book you ll learn about real time web functionality with ASP NET Core SignalR and discover strategies for bidirectional JavaScript interop David also covers component data binding hierarchical event driven communications in memory state management and local storage This book shows you how to Create a beautiful feature rich Blazor app Develop and localize an enterprise scale app using GitHub Actions and Azure Cognitive Services Translator Create advanced validation scenarios for input based components with forms Automatically deploy and host to Azure Static Web Apps and rely on HTTP services Use a geolocation service and speech synthesis and recognition native to the browser Author a custom modal verification mechanism for validating a user **LPI Web Development Essentials Study Guide** Audrey O'Shea,2023-10-17 Pass the LPI Web Development Essentials exam and set yourself up for success at a new web development job In LPI Linux Professional Institute Web Development Essentials Study Guide Exam 030 100 accomplished IT educator and systems engineer Audrey O Shea delivers an easy to follow and hands on roadmap to passing the LPI Web Development Essentials

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clean object oriented code in JavaScript gets trickier and complex as the size of the project grows This is where Typescript comes into the picture it lets you write pure object oriented code with ease giving it the upper hand over JavaScript This book introduces you to basic TypeScript concepts by gradually modifying standard JavaScript code which makes learning TypeScript easy for C ASP NET developers As you progress through the chapters you ll cover object programming concepts such as classes interfaces and generics and understand how they are related to and similar in both ES6 and C You will also learn how to use bundlers like WebPack to package your code and other resources The book explains all concepts using practical examples of ASP NET Core projects and reusable TypeScript libraries Finally you ll explore the features that TypeScript inherits from either ES6 or C or both of them such as Symbols Iterables Promises and Decorators By the end of the book you ll be able to apply all TypeScript concepts to understand the Angular framework better and you ll have become comfortable with the way in which modules components and services are defined and used in Angular You ll also have gained a good understanding of all the features included in the Angular ASP NET Core Visual Studio project template What you will learnOrganize test and package large TypeScript code baseAdd TypeScript to projects using TypeScript declaration filesPerform DOM manipulation with TypeScriptDevelop Angular projects with the Visual Studio Angular project templateDefine and use inheritance abstract classes and methodsLeverage TypeScript type compatibility rulesUse WebPack to bundle JavaScript and other resources such as CSS to improve performanceBuild custom directives and attributes and learn about animationsWho this book is for If you re a C or NET developer looking for an easy accessible way of learning TypeScript this book is for you **Web Application Development with MEAN** Amos Q. Haviv,Adrian Mejia,Robert Onodi,2016-10-28 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 a 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 *Meteor: Full-Stack Web Application Development* Fabian Vogelsteller,Isaac Strack,Marcelo Reyna,2016-11-22 Learn how to create mobile and full stack web applications in JavaScript by getting a deeper insight into Meteor About This Book This step by step tutorial will show you how to build fast complex web applications Over 65 hands on recipes help you build and deploy elegant web applications Optimize your web application for production use Who This Book Is For If you are a web developer who is familiar with Meteor and has basic knowledge of web development and you now want to explore new paradigms of single page real time applications this course is perfectly suited for you What You Will Learn Secure your site with Meteor best practices Create reactive templates that update themselves when data changes Add routing to a single page application and make it appear like a real website Make your own Meteor packages and see how to make them public Rapidly build robust responsive user interfaces Publish your own reusable custom packages Optimize your site for load speed with advanced publishers and subscribers Master the intricacies of front end development using Jeet Bootstrap CSS animations and more Leverage the aggregation framework to produce results with big data Optimize your site for search engine visibility In Detail Meteor is best JavaScript development platform and is packed with collections of libraries and packages bound together in a tidy way to take care of everything from development to production making your

web development easier This course follows a learning path divided into three modules Each module is a mini course in its own right taking your knowledge to a new level as you progress The first module takes you from the installation of Meteor to building a fully working web blog including back end to create and edit posts Your path will begin with the basic concepts and folder structure of a Meteor project learning how Meteor templates work to test packages and seeing the application itself The second module is a cookbook that starts with simple recipes designed for quick reference and culminating advanced recipes that walk you through building and deploying a complete application The cookbook covers all the major areas of Meteor development including lesser known and undocumented features too With all the important concepts covered in the previous modules the third module will get you equipped with simple solutions to boost your development skills You ll learn about mapping of real world data and optimizing it how to optimize and secure web applications and how to deploy and maintain it without breaking its features Throughout the module you will put your skills into practice and build an online shop from scratch 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 Building Single page Web Apps with Meteor Fabian Vogelsteller Meteor Cookbook Isaac Strack Meteor Design Patterns Marcelo Reyna Style and approach This practical handbook has a step by step approach to help you improve your developer skills and efficiently built web applications using Meteor   Learning TypeScript 2.x Remo H. Jansen,2018-04-30 Exploit the features of TypeScript to easily create your very own web applications Key Features Develop modular scalable maintainable and adaptable web applications by taking advantage of TypeScript Walk through the fundamentals of TypeScript with the help of practical examples Enhance your web development skills using TypeScript 2 x Book Description TypeScript is an open source and cross platform statically typed superset of JavaScript that compiles to plain JavaScript and runs in any browser or host This book is a step by step guide that will take you through the use and benefits of TypeScript with the help of practical examples You will start off by understanding the basics as well as the new features of TypeScript 2 x Then you will learn how to work with functions and asynchronous programming APIs You will continue by learning how to resolve runtime issues and how to implement TypeScript applications using the Object oriented programming OOP and functional programming FP paradigms Later you will automate your development workflow with the help of tools such as Webpack Towards the end of this book you will delve into some real world scenarios by implementing some full stack TypeScript applications with Node js React and Angular as well as how to optimize and test them Finally you will be introduced to the internal APIs of the TypeScript compiler and you will learn how to create custom code analysis tools What you will learn Understand TypeScript in depth including its runtime and advanced type system features Master the core principles of the object oriented programming and functional programming paradigms with TypeScript Save time using automation tools such as Gulp Webpack ts node and npm scripts Develop robust modular scalable maintainable and adaptable applications with testing frameworks such as Mocha Chai and

Sinon JS Put your TypeScript skills to practice by developing full stack web applications with Node js React and Angular Use the APIs of the TypeScript compiler to build custom code analysis tool Who this book is for If you are a developer aiming to learn TypeScript to build attractive web applications this book is for you No prior knowledge of TypeScript is required However a basic understanding of JavaScript would be an added advantage

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