



Community Experience Distilled

# 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

**Fernando Monteiro**

**[PACKT]**  
PUBLISHING

# Learning Single Page Web Application Development

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## **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

*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      *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 Readyng our SPA for production

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

Learning 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

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 learn Discover TypeScript s most important features and how they can be used to improve code quality and maintainability Understand what React Hooks are and how to build React apps using them Implement state management for your React app using Redux Set up an Express project with TypeScript and GraphQL from scratch Build a fully functional online forum app using React and GraphQL Add authentication to your web app using Redis Save and retrieve data from a Postgres database using TypeORM Configure NGINX on the AWS cloud to deploy and serve your apps Who 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

**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 Description Unlock 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

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*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

*Advances on Broad-Band Wireless Computing, Communication and Applications*  
Leonard Barolli, Makoto Takizawa, Tomoya Enokido, Hsing-Chung Chen, Keita Matsuo, 2020-10-07 This book aims to provide the latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of broadband and wireless computing Information networks of today are going through a rapid evolution Different kinds of networks with different characteristics are emerging and they are integrating in heterogeneous networks For these reasons there are many interconnection problems which may occur at different levels of the hardware and software design of communicating entities and communication networks These kinds of networks need to manage an increasing usage demand provide support for a significant number of services guarantee their QoS and optimize the network resources The success of all IP networking and wireless technology has changed the ways of living the people around the world The progress of electronic integration and wireless communications is going to pave the way to offer people the access to the wireless networks on the fly based on which all electronic devices will be able to exchange the information with each other in ubiquitous way whenever necessary

LEARN ASP.NET 2024 Edition Diego Rodrigues, 2024-11-02 Welcome to LEARN ASP NET Develop Robust Enterprise Solutions with NET From Fundamentals to Practical Applications 2024 Edition This book is your complete guide to mastering enterprise application development with ASP NET one of the most reliable and powerful platforms for creating robust scalable and secure solutions Written by best selling author Diego Rodrigues with more than 180 titles published in six languages this book offers a practical and direct approach for developers of all levels Whether you are a beginner looking to learn the fundamentals or an experienced professional seeking to refine your skills this guide is designed for you ASP NET is the ideal choice for companies of all sizes looking for high performance and flexibility Over the course of 30 chapters you will be guided from setting up the development environment to building RESTful APIs integrating with cloud services like Azure and AWS optimizing performance and ensuring data security The book also covers modern practices such as microservices automated deployment with CI CD and internationalization preparing you to face the challenges of enterprise development in today s landscape Each chapter provides practical examples and exercises that reinforce learning allowing you to apply the knowledge directly to real world projects This is the definitive resource for anyone looking to stand out in the market and build high quality enterprise solutions LEARN ASP NET is more than a manual it s your gateway to the future of enterprise software development TAGS Python Java Linux Kali Linux HTML ASP NET Ada Assembly Language BASIC Borland Delphi C C C CSS



Cobol Compilers DHTML Fortran General HTML Java JavaScript LISP PHP Pascal Perl Prolog RPG Ruby SQL Swift UML Elixir Haskell VBScript Visual Basic XHTML XML XSL Django Flask Ruby on Rails Angular React Vue js Node js Laravel Spring Hibernate NET Core Express js TensorFlow PyTorch Jupyter Notebook Keras Bootstrap Foundation jQuery SASS LESS Scala Groovy MATLAB R Objective C Rust Go Kotlin TypeScript Elixir Dart SwiftUI Xamarin React Native NumPy Pandas SciPy Matplotlib Seaborn D3.js OpenCV NLTK PySpark BeautifulSoup Scikit learn XGBoost CatBoost LightGBM FastAPI Celery Tornado Redis RabbitMQ Kubernetes Docker Jenkins Terraform Ansible Vagrant GitHub GitLab CircleCI Travis CI Linear Regression Logistic Regression Decision Trees Random Forests FastAPI AI ML K Means Clustering Support Vector Tornado Machines Gradient Boosting Neural Networks LSTMs CNNs GANs ANDROID IOS MACOS WINDOWS Nmap Metasploit Framework Wireshark Aircrack-ng John the Ripper Burp Suite SQLmap Maltego Autopsy Volatility IDA Pro OllyDbg YARA Snort ClamAV iOS Netcat Tcpdump Foremost Cuckoo Sandbox Fierce HTTrack Kismet Hydra Nikto OpenVAS Nessus ZAP Radare2 Binwalk GDB OWASP Amass Dnsenum Dirbuster Wpscan Responder Setoolkit Searchsploit Recon-ng BeEF aws google cloud ibm azure databricks nvidia meta x Power BI IoT CI CD Hadoop Spark Pandas NumPy Dask SQLAlchemy web scraping mysql big data science openai chatgpt Handler RunOnUiThread Qiskit Q Cassandra Bigtable VIRUS MALWARE docker kubernetes Kali Linux Nmap Metasploit Wireshark information security pen test cybersecurity Linux distributions ethical hacking vulnerability analysis system exploration wireless attacks web application security malware analysis social engineering Android iOS Social Engineering Toolkit SET computer science IT professionals cybersecurity careers cybersecurity expertise cybersecurity library cybersecurity training Linux operating systems cybersecurity tools ethical hacking tools security testing penetration test cycle security concepts mobile security cybersecurity fundamentals cybersecurity techniques cybersecurity skills cybersecurity industry global cybersecurity trends Kali Linux tools cybersecurity education cybersecurity innovation penetration test tools cybersecurity best practices global cybersecurity companies cybersecurity solutions IBM Google Microsoft AWS Cisco Oracle cybersecurity consulting cybersecurity framework network security cybersecurity courses cybersecurity tutorials Linux security cybersecurity challenges cybersecurity landscape cloud security cybersecurity threats cybersecurity compliance cybersecurity research cybersecurity technology

**AngularJS Deployment Essentials** Zachariah Moreno,2015-02-27 If you are a web developer this handy guide will empower you to quickly learn the fundamentals of AngularJS development and deployment [Node.js 6.x](#) [Node.js 6.x](#) [Node.js 6.x](#) [Node.js 6.x](#),2017-07-03 10 Node.js LTS 6.x SNS 10 MVC DB Restful API LTS Node.js 6.x 10 MVC DB MySQL Socket IO JS Node.js MVC RESTful API DB ORM SPA Socket IO *JS From A To Z* Muhammed CİNDİOĞLU,2023-10-28 JavaScript is a versatile and powerful programming language that is primarily used for web development It allows you to add interactivity and dynamic behavior to websites making it an integral part of front end web development JavaScript is often referred to as the language of the web because it runs in web browsers and enables features like interactive forms

animations and real time updates      Hands-On TypeScript for C# and .NET Core Developers Francesco Abbruzzese, 2018-10-31 Discover how TypeScript allows you to build modern client rich applications thanks to its object oriented capabilities and third party tools like Angular and Web APIs Key Features Make a seamless transition to using TypeScript 3.1 in your development stack Work with TypeScript 3.1 in your ASP.NET Core projects to build rich applications that are easy to maintain Build test and integrate your own TypeScript library in real world projects Book Description Writing 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 will 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 will 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 will be able to apply all TypeScript concepts to understand the Angular framework better and you will have become comfortable with the way in which modules components and services are defined and used in Angular You will also have gained a good understanding of all the features included in the Angular ASP.NET Core Visual Studio project template What you will learn Organize test and package large TypeScript code base Add TypeScript to projects using TypeScript declaration files Perform DOM manipulation with TypeScript Develop Angular projects with the Visual Studio Angular project template Define and use inheritance abstract classes and methods Leverage TypeScript type compatibility rules Use WebPack to bundle JavaScript and other resources such as CSS to improve performance Build custom directives and attributes and learn about animations Who this book is for If you are 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 **LEARN ASP.NET** Diego

Rodrigues,2024-11-02 This book is the definitive guide for those who want to learn ASP NET with a practical focus and professional structure You will learn how to develop secure dynamic and scalable web applications using C with MVC Razor Pages Entity Framework and integrated authentication Explore everything from project setup to building modern interfaces handling data routing validation dynamic rendering with Razor database integration and deploying robust applications to production Includes Project structuring with Razor Pages and MVC Creating controllers secure routes and JSON responses Data validation forms and real time feedback Dynamic views with Razor and C modeling Integration with Entity Framework migrations and CRUD operations Authentication and authorization with ASP NET Identity Organized secure and high performance deployment By the end you will have the technical mastery to build complete web systems with ASP NET integrating backend data and interfaces with professional quality asp net c web development razor mvc entity framework authentication net modern applications professional backend

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## Learning Single Page Web Application Development Introduction

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