JavaScript end-to-end

Single Page
Web Applications

Michael S. Mikowski
Josh C. Powell

FOREWORD BY Gregory D. Benson

Single Page Web Applications Michael S Mikowski

Christopher Nance

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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 **Single Page Web Applications** Michael Mikowski,Josh C. Powell,2013-09-30 Code for most web sites mostly runs on the server When a user clicks on a link the site reacts slowly because the browser sends information to the server and the server sends it back again before displaying the results With near universal availability of capable browsers and powerful hardware the single page web application SPA pushes most of the code to the browser giving users immediate results whether they re surfing at their desk or using a phone app Single Page Web Applications shows how to build modern browser based apps that take advantage of stronger client platforms and more predictable bandwidth It covers the SPA design approach and explores new techniques like structured JavaScript and responsive design Readers will learn 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 AUDIENCE This book is for web developers architects and product managers who know about JavaScript HTML CSS and web development basics ABOUT THE TECHNOLOGY A Single Page Application SPA is an application

delivered to the browser that does not reload the page during use **API Security in Action** Neil Madden,2020-12-08 API Security in Action teaches you how to create secure APIs for any situation By following this hands on guide you ll build a social network API while mastering techniques for flexible multi user security cloud key management and lightweight cryptography Summary A web API is an efficient way to communicate with an application or service However this convenience opens your systems to new security risks API Security in Action gives you the skills to build strong safe APIs you can confidently expose to the world Inside you ll learn to construct secure and scalable REST APIs deliver machine to machine interaction in a microservices architecture and provide protection in resource constrained IoT Internet of Things environments Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology APIs control data sharing in every service server data store and web client Modern data centric designs including microservices and cloud native applications demand a comprehensive multi layered approach to security for both private and public facing APIs About the book API Security in Action teaches you how to create secure APIs for any situation By following this hands on guide you ll build a social network API while mastering techniques for flexible multi user security cloud key management and lightweight cryptography When you re done you ll be able to create APIs that stand up to complex threat models and hostile environments What s inside Authentication Authorization Audit logging Rate limiting Encryption About the reader For developers with experience building RESTful APIs Examples are in Java About the author Neil Madden has in depth knowledge of applied cryptography application security and current API security technologies He holds a Ph D in Computer Science Table of Contents PART 1 FOUNDATIONS 1 What is API security 2 Secure API development 3 Securing the Natter API PART 2 TOKEN BASED AUTHENTICATION 4 Session cookie authentication 5 Modern token based authentication 6 Self contained tokens and JWTs PART 3 AUTHORIZATION 7 OAuth2 and OpenID Connect 8 Identity based access control 9 Capability based security and macaroons PART 4 MICROSERVICE APIs IN KUBERNETES 10 Microservice APIs in Kubernetes 11 Securing service to service APIs PART 5 APIs FOR THE INTERNET OF THINGS 12 Securing IoT communications 13 Securing IoT APIs   **JavaScript Ninja**□□□ Bear Bibeault,John Resig,2013-05-24 jQuery JavaScript Google Facebook Web jQuery JavaScript jQuery JavaScript JavaScript JavaScript Ninja JavaScript   **Geheimnisse eines JavaScript-Ninjas** Resig/Bibeault,2014-02-24 Bew hrte Methoden bei der Entwicklung einer JavaScript Bibliothek Anspruchsvolle Features von JavaScript Ausf hrliche Beschreibung browser bergreifender Programmierung Aus dem Inhalt Assertionen und Debugging Funktionen und Objekte Closures Objektorientierung und Prototypen Regul re Ausdr cke Umgang mit Threads und Timern Codeauswertung zur Laufzeit Die with Anweisung Cross Browser Strategien Attribute Eigenschaften und CSS Umgang mit Ereignissen Manipulation des DOMs CSS Selector Engines Anwendungen und Bibliotheken aus der richtigen Perspektive betrachtet Modernes JavaScript Design Probleml sungen f r die browser bergreifende Entwicklung Das Web ist heute ohne JavaScript undenkbar doch seit der Entstehung dieser

Scriptsprache hat sich einiges getan Dieses Buch stellt moderne JavaScript Konzepte vor die f r alle Webentwickler von Nutzen sind die Ajax und JavaScript Bibliotheken f r interaktive Webseiten einsetzen Der JavaScript Experte John Resig Autor der bekannten jQuery Bibliothek vermittelt im Buch das Insiderwissen der besten JavaScript Programmierer Das Buch richtet sich an fortgeschrittene Anf nger und weist dem Leser den Weg zur Programmierung moderner JavaScript Anwendungen in drei Stufen Entwurf Entwicklung sowie Pflege und Wartung des Codes Zun chst wird die Grundlage fortgeschrittenen JavaScript Wissens gelegt Danach lernt der Leser den Aufbau einer JavaScript Bibliothek kennen Hier werden die vielf ltigen Aufgaben erl utert sowie Entwicklungsstrategien und L sungsans tze aus der Praxis vorgestellt Und nat rlich werden auch die Vorgehensweisen zur Erstellung zukunftssicheren Codes thematisiert Das Buch versetzt den Leser in die Lage ausgezeichnete JavaScript Anwendungen zu programmieren eigene Bibliotheken zu schreiben und die verf gbaren JavaScript Bibliotheken optimal zu verwenden ber die Autoren John Resig ist anerkannter JavaScript Experte und Autor der JavaScript Bibliothek jQuery Bear Bibeault ist Webentwickler und Co Autor von drei weiteren B chern Von zwei Meistern ihrer Zunft ber die Kunst effektives browser bergreifendes JavaScript zu erschaffen Glenn Stokol Oracle Corporation Ganz nach der jQuery Devise Weniger Code schreiben mehr erreichen Andr Roberge Universit t Sainte Anne Spannende und originelle Techniken Scott Sauyet Four Winds Software Wenn Sie dieses Buch gelesen haben werden Sie nie wieder blindlings ein Codefragment bernehmen und sich fragen wie es funktioniert sondern verstehen warum es funktioniert Joe Litton Collaborative Software Developer JoeLitton net Bringt Ihr JavaScript auf meisterliches Niveau Christopher Haupt greenstack com **Разработка одностраничных веб-приложений** Майкл Миковски,Джош Пауэлл,2022-01-29 SPA SPA SPA JavaScript HTML5 CSS3 JavaScript JavaScript *Single Page Web Applications* ,2015 **Learn TypeScript 3 by Building Web Applications** Sebastien Dubois,Alexis Georges,2019-11-22 Learn TypeScript and many of its features by building state of art web applications from scratch with the help of modern tooling frameworks and libraries Key FeaturesCreate modern Web applications to help businesses around the world benefit from better quality applicationsLearn the latest features of TypeScript 3 and use them wiselyExplore TDD practices OOP techniques and industry best practices to create high quality and modular appsBook Description TypeScript is a superset of the JavaScript programming language giving developers a tool to help them write faster cleaner JavaScript With the help of its powerful static type system and other powerful tools and techniques it allows developers to write modern JavaScript applications This book is a practical guide to learn the TypeScript programming language It covers from the very basics to the more advanced concepts while explaining many design patterns techniques frameworks libraries and tools along the way You will also learn a ton about modern web frameworks like Angular Vue js and React and you will build cool web applications using those This book also covers modern front end development tooling such as Node js npm yarn Webpack Parcel Jest and many others Throughout the book you will also discover and make use of the most recent additions of the language introduced by TypeScript 3 such as new types enforcing explicit checks

flexible and scalable ways of project structuring and many more breaking changes By the end of this book you will be ready to use TypeScript in your own projects and will also have a concrete view of the current frontend software development landscape What you will learnUnderstand and take advantage of TypeScript s powerful Type SystemGrasp the key concepts and features of Angular React Vue js and NestJSHandle asynchronous processes using Promises async await Fetch RxJS and moreDelve into REST GraphQL and create APIs using ApolloDiscover testing concepts techniques and tools like TDD BDD E2E JestLearn Object Oriented and Functional Programming concepts and leverage those with TypeScriptExplore design practices and patterns such as SOLID MVC DI and IoC LoD AOP and moreWho this book is for This book is for software developers who are willing to discover what TypeScript is and how to leverage it to write great quality software Developers that are already familiar with TypeScript will find this book useful by learning the languages featured introduced by most recent releases Basic knowledge of the JavaScript programming is expected   **Building Single-Page Web Apps with Meteor** Fabian Vogelsteller,2015-01-27 If you are a web developer with basic knowledge of JavaScript and want to take on Web 2 0 build real time applications or simply want to write a complete application using only JavaScript and HTML CSS this is the book for you This book is based on Meteor 1 0   *Server-Driven Web Apps with htmx* R. Mark Volkmann,2024-08-14 htmx is a library that adds logic and server interaction to HTML you get the effect of using a front end SPA framework without writing front end code Use any server side programming language and framework to build server applications with endpoints that simply return snippets of HTML Dynamically update portions of the current web page from HTTP responses Add interactivity with JavaScript and libraries such Alpine and _hyperscript Make your apps more secure by escaping user supplied content and specifying a Content Security Policy Go beyond basic HTTP requests with WebSockets and server sent events The htmx JavaScript library gives you a new way to craft web applications The htmx approach differs significantly from that of the currently popular single page application SPA frameworks rather than write a bunch of JavaScript you simply annotate HTML elements before you send them to the browser The resulting code is easier to understand and modify and because it downloads less to the browser and doesn t need JSON creation and parsing you ll find it performs better too Rethink web application design write code in any language that simply responds to requests with htmx snippets Dynamically update portions of the current web page directly from the server Implement common patterns such as lazy loading input validation CSS transitions active search optimistic updates pagination infinite scroll polling and click to edit Add interactivity with JavaScript and libraries such as Alpine and _hyperscript Use the htmx JavaScript API to simplify DOM operations Make your web apps more secure escape user supplied content use Subresource Integrity hashes and enforce a Content Security Policy Go beyond the basic HTTP request response pattern with WebSockets and server sent events Discover a simpler way to implement web applications that emphasizes web fundamentals What You Need A modern web browser and the ability to build and run a local HTTP server using the server side language and framework of your choice The code examples are fully

compatible with htmx 2 0 *TypeScript for Web Development* Adrian Miller,2025-02-21 The Ultimate Guide to Web Development Using TypeScript Are you ready to take your web development skills to the next level with TypeScript Say goodbye to frustrating JavaScript errors and hello to a faster safer and more scalable way of building modern web applications Whether you re a frontend developer a full stack web developer or just starting with web development using TypeScript this book will help you master TypeScript programming for web development projects with real world examples and best practices What You ll Learn Master TypeScript for Web Development Learn TypeScript types interfaces generics and classes to write clean error free code Build Scalable Web Applications Follow step by step TypeScript web application examples and develop real world TypeScript web apps with React Angular and Node js Full Stack Development with TypeScript Understand how to use TypeScript for both frontend and backend development and create robust full stack web applications Eliminate Costly Errors Use TypeScript type guards return types and DTOs to prevent common JavaScript pitfalls and make your web applications more reliable Web Development Simplified Whether you re building a single page application SPA or a complex enterprise web app this book provides step by step tutorials and real world TypeScript web development examples Integrate TypeScript with Popular Frameworks Learn full stack web development with Angular React and Node js and discover how to optimize performance with Webpack dev server TypeScript config Stay Ahead with TypeScript 5 Explore TypeScript s latest features including typeof return type type extensions and DTOs to create modern high performance web applications Who Is This Book For JavaScript developers who want to upgrade to TypeScript for web development Frontend full stack developers looking for best practices in TypeScript web applications Aspiring web developers eager to learn web development with TypeScript from scratch Experienced programmers who want to streamline their workflow using TypeScript programming for web development *Official Netscape ONE Book* Luke Duncan,Sean Michaels,1997 This book shows users how to maximize this suite of SDKs APIs resources and documentation for creating content and tools for Netscape products Readers learn how to use each Netscape ONE component as well as how to tie the pieces together The CD contains sample applications created by the authors TypeScript Essentials Christopher Nance,2014-10-21 The book introduces the TypeScript language and its features to anyone looking to develop rich web applications Whether you are new to web development or are an experienced engineer with strong JavaScript skills this book will get you writing code quickly A basic understanding of JavaScript and its language features are necessary for this book

Engineering Web Applications Sven Casteleyn,Florian Daniel,Peter Dolog,Maristella Matera,2009-07-25 Nowadays Web applications are almost omnipresent The Web has become a platform not only for information delivery but also for eCommerce systems social networks mobile services and distributed learning environments Engineering Web applications involves many intrinsic challenges due to their distributed nature content orientation and the requirement to make them available to a wide spectrum of users who are unknown in advance The authors discuss these challenges in the context of

well established engineering processes covering the whole product lifecycle from requirements engineering through design and implementation to deployment and maintenance They stress the importance of models in Web application development and they compare well known Web specific development processes like WebML WSDM and OOHDM to traditional software development approaches like the waterfall model and the spiral model **TypeScript in Action** Frahaan Hussain,Kameron Hussain,2023-11-13 TypeScript in Action Building Modern Web Applications with TypeScript is your comprehensive guide to harnessing the power of TypeScript the statically typed superset of JavaScript to build cutting edge web applications Whether you re a web developer eager to embrace modern development practices or an experienced programmer seeking to leverage TypeScript s advantages this book provides you with the knowledge and hands on experience to excel in the world of web development Starting with the fundamentals you ll learn TypeScript s syntax data types and key language features that enhance code reliability and maintainability You ll explore how TypeScript interfaces seamlessly with popular JavaScript libraries and frameworks enabling you to create robust and scalable web applications Through practical examples and real world projects you ll delve into topics such as module systems decorators and TypeScript tooling Key Features Master TypeScript s core concepts and best practices for building modern web applications Enhance code quality and maintainability with TypeScript s static typing Create dynamic and responsive web interfaces using TypeScript and popular frameworks Leverage TypeScript s compatibility with JavaScript libraries and modules Gain insights into advanced TypeScript features like decorators and async await Work on hands on projects that showcase TypeScript in real world web development scenarios TypeScript in Action doesn t just teach you TypeScript it immerses you in practical web development scenarios You ll work on projects that include building interactive web forms developing single page applications and implementing real time features By the end of this journey you ll have the skills and confidence to tackle complex web development projects and create modern web applications that meet today s demands Whether you aspire to become a front end developer full stack developer or simply want to leverage TypeScript s power in your web projects this book is your action packed guide to building modern web applications with TypeScript *Building Single Page Web Apps with AngularJS* Raoni Boaventura,2014 A practical comprehensive guide on AngularJS taking you from the basics to rich client side applications in no time About This Video Learn how to build single page applications from scratch with a practical approach to development using AngularJS Go from Hello World to intricate web applications with incrementally complex exercises Learn all about the important features and components available in the framework including how to write your own custom components In Detail Building web applications that can manage huge chunks of data consistently is becoming increasingly difficult and this affects the efficiency of your app Single Page Applications SPA solve this issue as its design principles make life easy for data intensive applications by updating the constant stream of data in the same page making the application more intuitive for the user Doing this with pure JavaScript is hard To help with the implementation of single page applications Google developed a

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