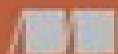


JavaScript end-to-end

# Single Page Web Applications

Michael S. Mikowski  
Josh C. Powell

FOREWORD BY Gregory D. Benson



MANNING

# Single Page Web Applications Michael S Mikowski

**Sven Casteleyn, Florian Daniel, Peter  
Dolog, Maristella Matera**



## **Single Page Web Applications Michael S Mikowski:**

**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. *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. Ready to go.

our SPA for production

**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 JavaScript JavaScript JavaScript **Geheimnisse eines JavaScriptNinjas** John Resig, Bear Bibeault, 2014-03-17 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 ungen f r die browser bergreifende Entwicklung Das Web ist heute ohne JavaScript undenkbar doch seit der Entstehung dieser Scriptsprache hat

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algorithms enabling the instances to roam freely in complex environments By the end of this book you ll be skilled at designing interactive virtual worlds inhabited by lifelike NPCs that exhibit natural context aware behaviors What will you learn Master the basics of the Open Asset Import Library Animate thousands of game characters Extend ImGui with more advanced control types Implement simple configuration file handling Explore collision detection between 3D models and world objects Combine inverse kinematics and collision detection Work with state machines behavior trees and interactive NPC behaviors Implement navigation for NPC movement in unknown terrains Who this book is for This book is for experienced C developers game programmers and character animators who already have basic knowledge of character animation but are curious to learn more The book assumes advanced C knowledge and is ideal for those eager to delve into advanced animation techniques and create interactive virtual worlds [Single Page Web Applications](#) ,2015

**Разработка одностраничных веб-приложений** Майкл Миковски,Джош Пауэлл,2022-01-29 SPA SPA SPA JavaScript HTML5 CSS3 JavaScript JavaScript *Learn TypeScript 3 by Building Web Applications* Sébastien 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 Features Create modern Web applications to help businesses around the world benefit from better quality applications Learn the latest features of TypeScript 3 and use them wisely Explore TDD practices OOP techniques and industry best practices to create high quality and modular apps Book 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 learn Understand and take advantage of TypeScript s powerful Type System Grasp the key concepts and features of Angular React Vue js and NestJS Handle asynchronous processes using Promises async await Fetch RxJS and more Delve into REST GraphQL and create APIs using Apollo Discover testing concepts techniques and tools like TDD BDD E2E Jest Learn Object Oriented and Functional Programming concepts and leverage those with TypeScript Explore design practices and patterns such as SOLID MVC DI and IoC LoD AOP and more Who this book is for This book is for software developers who are willing

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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 framework called AngularJS that allows you to build well structured easily testable and maintainable frontend Single Page Applications This course will take you from the very basics of developing rich client side Single Page Applications SPA through a series of practical examples of incremental complexity including a full review of AngularJS built in features and testability features At the beginning of the course you will be introduced to the advantages and limitations of AngularJS and its compatibility with SPAs As we move on we ll dive head first into the application coding starting from your first application and going all the way from building a to do list app to a fully featured movie database understanding every key aspect of the framework in the process Later on we ll focus on reviewing AngularJS built in components directives filters and services including every detail of how to write your own custom components of every kind And finally we ll wrap up with automated testing clearly guiding you on how to write and execute automated tests on AngularJS and introducing best practices on both unit and end to end testing Building Single Page Web Apps with AngularJS will take you from zero to hero covering all important aspects of the framework and preparing you to hit the ground running on any single page application

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.

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- Create dynamic and responsive web interfaces using TypeScript and popular frameworks.
- Leverage TypeScript's compatibility with JavaScript libraries and modules.
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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.

*TypeScript for Web Development* Adrian Miller, 2025-02-21

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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.

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## Unveiling the Magic of Words: A Report on "**Single Page Web Applications Michael S Mikowski**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Single Page Web Applications Michael S Mikowski**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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