



JavaScript Application Design

A Build First Approach

Nicolas Bevacqua

Foreword by Addy Osmani

 MANNING

Javascript Application Design A Build First Approach

Nicolas Bevacqua

A decorative red circular graphic with a gradient, partially obscured by the light blue bar containing the author's name.

JavaScript Application Design A Build First Approach:

JavaScript Application Design Nicolas Bevacqua, 2015-01-29 Summary JavaScript Application Design A Build First Approach introduces JavaScript developers to techniques that will improve the quality of their software as well as their web development workflow You'll begin by learning how to establish build processes that are appropriate for JavaScript driven development Then you'll walk through best practices for productive day to day development like running tasks when your code changes deploying applications with a single command and monitoring the state of your application once it's in production Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book The fate of most applications is often sealed before a single line of code has been written How is that possible Simply bad design assures bad results Good design and effective processes are the foundation on which maintainable applications are built scaled and improved For JavaScript developers this means discovering the tooling modern libraries and architectural patterns that enable those improvements JavaScript Application Design A Build First Approach introduces techniques to improve software quality and development workflow You'll begin by learning how to establish processes designed to optimize the quality of your work You'll execute tasks whenever your code changes run tests on every commit and deploy in an automated fashion Then you'll focus on designing modular components and composing them together to build robust applications This book assumes readers understand the basics of JavaScript What's Inside Automated development testing and deployment processes JavaScript fundamentals and modularity best practices Modular maintainable and well tested applications Master asynchronous flows embrace MVC and design a REST API About the Author Nicolas Bevacqua is a freelance developer with a focus on modular JavaScript build processes and sharp design He maintains a blog at ponyfoo.com Table of Contents PART 1 BUILD PROCESSES Introduction to Build First Composing build tasks and flows Mastering environments and the development workflow Release deployment and monitoring PART 2 MANAGING COMPLEXITY Embracing modularity and dependency management Understanding asynchronous flow control methods in JavaScript Leveraging the Model View Controller Testing JavaScript components REST API design and layered service architectures *JavaScript Application Design Video Edition* Nicolas Bevacqua, 2015 JavaScript Application Design A Build First Approach introduces techniques to improve software quality and development workflow You'll begin by learning how to establish processes designed to optimize the quality of your work You'll execute tasks whenever your code changes run tests on every commit and deploy in an automated fashion Then you'll focus on designing modular components and composing them together to build robust applications Resource description page **Building User-Friendly DSLs** Meinte Boersma, 2024-12-17 Craft domain specific languages that empower experts to create software themselves Domain specific languages put business experts at the heart of software development These purpose built tools let your clients write down their business knowledge and have it automatically translated into working software no dev time required They seamlessly

bridge the knowledge gap between programmers and subject experts enabling better communication and freeing you from time consuming code adjustments

Inside Building User Friendly DSLs you ll learn how to Build a complete Domain IDE for a car rental company Implement a projectional editor for your DSL Implement content assist type systems expressions and versioning language aspects Evaluate business rules Work with Abstract Syntax Trees Reduce notated DSL content in concrete syntax into abstract syntax Building User Friendly DSLs takes you on a carefully planned journey through everything you need to create your own DSLs It focuses on building DSLs that are easy for busy business experts to learn and master By working through a detailed example of a car rental company you ll see how to create a custom DSL with a modern and intuitive UI that can replace tedious coding activities

About the technology Here s the central problem of software development business users know what they need their apps to do but they don t know how to write the code themselves As a developer this means you spend a lot of time learning the same domain specific details your user already knows Now there s a way to bridge this gap You can create a Domain Specific Language DSL that empowers non technical business users to create and customize their own applications without writing any code

About the book Building User Friendly DSLs teaches you how to create a complete domain specific language that looks and works like a web application These easy to use DSLs put the power to create custom software into the hands of business domain experts As you go you ll cover all the essentials from establishing structure and syntax of your DSL to implementing a user friendly interface

What s inside Implement a projectional editor for your DSL Work with Abstract Syntax Trees Evaluate business rules

About the reader For developers with JavaScript and web development experience

About the author Meinte Boersma is a senior developer and an evangelist of model driven software development and DSLs

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Sails.js in Action Irl Nathan, Michael McNeil, 2017-01-22

Summary Sails js in Action is a comprehensive guide to building enterprise capable web applications using Node and Sails Written by the creators of the Sails js framework this book carefully introduces each concept technique and tool with real world examples and crystal clear explanations

Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications

About the Technology Sails makes professional web development a breeze This instantly familiar MVC framework automatically handles the tedious application boilerplate so you can concentrate on developing features and creating business value You get powerful tools for rapid API development task automation an ORM and easy integration with any web mobile or IoT frontend And because you re using Node js it s JavaScript all the way down

About the Book Sails js in Action is a comprehensive guide on how to build

enterprise capable web applications Written by the creators of Sails js this book introduces each concept and technique with real world examples and thorough explanations As you read you ll learn to build the backend of a typical web application while you explore real time programming with WebSockets security fundamentals and best practices for building Sails Node js apps What s Inside Creating the backend for a web mobile or IoT app Real time programming with WebSockets User management authentication and password recovery Using Sails to autogenerate REST APIs Custom backend development and third party API integrations About the Reader Readers should be comfortable with JavaScript and frontend web development About the Author Mike McNeil is the creator of Sails js Irl Nathan is the producer of sailsCasts a series focused on using Sails Table of Contents Getting started First steps Using static assets Using the blueprint API Custom backend code Using models Custom actions Server rendered views Authentication and sessions Policies and access control Refactoring Embedded data and associations Ratings followers and search Realtime with WebSockets Deployment testing and security

Developing Backbone.js Applications Addy Osmani,2013-05-10 If you want to build your site s frontend with the single page application SPA model this hands on book shows you how to get the job done with Backbone js You ll learn how to create structured JavaScript applications using Backbone s own flavor of model view controller MVC architecture Start with the basics of MVC SPA and Backbone then get your hands dirty building sample applications a simple Todo list app a RESTful book library app and a modular app with Backbone and RequireJS Author Addy Osmani an engineer for Google s Chrome team also demonstrates advanced uses of the framework Learn how Backbone js brings MVC benefits to the client side Write code that can be easily read structured and extended Work with the Backbone Marionette and Thorax extension frameworks Solve common problems you ll encounter when using Backbone js Organize your code into modules with AMD and RequireJS Paginate data for your Collections with the Backbone Paginator plugin Bootstrap a new Backbone js application with boilerplate code Use Backbone with jQuery Mobile and resolve routing problems between the two Unit test your Backbone apps with Jasmine QUnit and SinonJS

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Mastering Responsive Web Design Ricardo Zea, 2015-08-24 Become a master in RWD with this practical engaging guide About This Book Build responsive designs with solid yet simple HTML5 and CSS3 best practices Use CSS preprocessors Sass to speed up the creation of CSS Each chapter covers a different feature of RWD with carefully chosen interesting examples including the latest developments in responsive design Who This Book Is For If you already know some HTML and CSS and understand the principles of responsive web design this book is for you There s something here for you to learn regardless of if you re a web designer or web developer or whether you re a seasoned expert web professional What

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Astro Islands Architecture and Partial Hydration Patterns William Smith,2025-08-20 Astro Islands Architecture and Partial Hydration Patterns Astro Islands Architecture and Partial Hydration Patterns offers a definitive technical deep dive into the emerging architectures transforming the modern web The book guides readers through the evolution from traditional multi page and single page applications toward the innovative islands architecture with a sharp focus on Astro s unique value propositions zero JS by default optimal developer experience and seamless integration in the JAMstack and serverless ecosystems Through thorough comparative analyses and explorations of architectural trends the reader gains a nuanced understanding of how Astro differentiates itself from frameworks like React Next js and SvelteKit setting the foundation for high performing interactive web applications The core of the book delivers unprecedented insight into the mechanics of the islands architecture and partial hydration Readers will explore technical anatomy at the component level advanced lifecycle orchestration between server and client and clever strategies for rendering hydration and boundary management Detailed chapters demystify partial hydration triggers

serialization resilience patterns and the challenges of state propagation within and across isolated UI segments Advanced patterns such as composable micro frontends dynamic routing lazy loading state synchronization and secure third party integrations are dissected with meticulous clarity preparing developers for scalable enterprise grade applications Performance and reliability are given first class treatment with expert guidance on profiling cost modeling network strategies real user metrics and fault tolerance in partially hydrated interfaces The book culminates in practical approaches for DevOps observability CI CD and disaster recovery and concludes with a forward looking vision exploring standardization edge hydration and the future of developer experience Astro Islands Architecture and Partial Hydration Patterns is an essential resource for engineers architects and technical decision makers seeking to master the craft of modern performant and resilient web application architecture

Using JavaScript Andrew Wooldridge, Mike Morgan, 1997 Aimed at immediate to advanced Web publishers this edition explores the new functions in JavaScript and their uses The CD ROM contains JavaScript and Java examples from the book as well as an additional code and examples not used in the book

Web Scalability for Startup Engineers Artur Ejsmont, 2015-07-03 This invaluable roadmap for startup engineers reveals how to successfully handle web application scalability challenges to meet increasing product and traffic demands Web Scalability for Startup Engineers shows engineers working at startups and small companies how to plan and implement a comprehensive scalability strategy It presents broad and holistic view of infrastructure and architecture of a scalable web application Successful startups often face the challenge of scalability and the core concepts driving a scalable architecture are language and platform agnostic The book covers scalability of HTTP based systems websites REST APIs SaaS and mobile application backends starting with a high level perspective before taking a deep dive into common challenges and issues This approach builds a holistic view of the problem helping you see the big picture and then introduces different technologies and best practices for solving the problem at hand The book is enriched with the author's real world experience and expert advice saving you precious time and effort by learning from others mistakes and successes Language agnostic approach addresses universally challenging concepts in Web development scalability does not require knowledge of a particular language Fills the gap for engineers in startups and smaller companies who have limited means for getting to the next level in terms of accomplishing scalability Strategies presented help to decrease time to market and increase the efficiency of web applications

HTML 4.0 Sourcebook Ian S. Graham, 1998-04-27 Your total guide to online publishing using HTML The HTML Sourcebook is an indispensable resource for authors publishers marketers educators and virtually anyone interested in publishing on the World Wide Web Written by the author of one of the most accessed HTML online tutorials it provides all the essentials for preparing character based as well as graphically based hypertext documents for online publication With the help of Ian S Graham's clear step by step guidelines and priceless pointers you'll quickly learn how to Master all HTML commands and the URL syntax Create and edit HTML documents for Mosaic Netscape Lynx and all other WWW browsers

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Practitioner's Handbook for User Interface Design and Development Robert J. Torres,2002 Using extensive practical examples the Practitioner s Handbook for User Interface Design and Development illuminates today s best practices for user interface design usability and user centered development Robert J Torres introduces user interfaces from three points of view the user the developer and the system Next he introduces a complete user centered UI development process beginning at the highest level and then drilling down to each phase of the lifecycle For every stage Torres offers clear principles specific guidelines and practical heuristics for self assessment *26th Annual International Computer Software and Applications Conference* IEEE Computer Society,2002 Collects the 172 papers presented during the August 2002 conference with the theme of Prolonging software life development and redevelopment The main subjects of the 38 sessions are component based software development software process quality control testing software evolution web based sy

Managing Multimedia Elaine England,Andy Finney,1999 Summary Managing Multimedia includes management guidelines for each stage of the multimedia project life cycle from initiation to completion defines the project manager s responsibilities at each stage of the project life cycle These checklists build into an overall job description or role model pinpoints all the recognized problem areas and offers practical solutions based on the Authors own extensive experience and provides task related exercises to help you build a customized set of multimedia management guidelines to fit your own project requirements *Ajax: The Complete Reference* Thomas A. Powell,2008-03-13 The Definitive Guide to Ajax Web Application Development Evolve from the click and wait programming pattern to the latest Web 2 0 paradigm using this comprehensive guide to Ajax Written by Web development expert Thomas Powell the book lays out every feature of Ajax alongside detailed explanations and real world code examples Ajax The Complete Reference explains how to create and test Ajax enabled Web applications using the XMLHttpRequest object as well as alternative JavaScript based communication mechanisms You ll explore a variety of sample applications featuring emerging user interface conventions and build applications that address real world networking and security issues A robust communication library is developed throughout

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ASCE Combined Index American Society of Civil Engineers,1998 Indexes materials appearing in the Society s Journals Transactions Manuals and reports Special publications and Civil engineering

Javascript Application Design A Build First Approach Book Review: Unveiling the Power of Words

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