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ADAM FREEMAN

Real-Time Web Application Development Rami Vemula, 2017-12-01 Design, develop, and deploy a real-world web application by leveraging modern open source technologies. This book shows you how to use ASP.NET Core to build cross-platform web applications along with SignalR to enrich the application by enabling real-time communication between server and clients. You will use Docker to containerize your application, integrate with GitHub to package the application, and provide continuous deployment to Azure's IaaS platform. Along the way, *Real-Time Web Application Development* covers topics including designing a Materialize CSS theme, using a test-driven development approach with xUnit.net, and securing your application with the OAuth 2.0 protocol. To further your understanding of the technology, you will learn logging and exception handling; navigation using view components; and how to work with forms and validations. The rich code samples from this book can be used to retrofit or upgrade existing ASP.NET Core applications. What You Will Learn Design and develop a real-world web application Implement security and data storage with OAuth2 and Azure Table Storage Orchestrate real-time notifications through SignalR Use GitHub and Travis CI for continuous integration of code Master Docker containerization and continuous deployment with Docker Cloud to Azure Linux virtual machines Who This Book Is For Developers and software engineers interested in learning an end-to-end approach to application development using Microsoft technologies.

Practical Multiple-Page Apps with ASP.NET Core and Angular Elements Jack Xu, 2019-07-16 This book provides all the tools you need to develop ultra-modern multiple-page applications (MPAs) using ASP.NET Core Razor Pages, Angular elements, WebPack, RxJS, and mini-SPAs (Single-Page Applications). It will be useful for web programmers, business developers, and students of all skill levels who are interested in web-application developments. This book teaches you how to build a modern web site/application using a hybrid approach - the simplest being host one or more mini-SPAs within a larger multiple-page web application. It shows how to split a web application into functional parts, and convert each functional part into its own SPA. These mini-SPAs together form a complete multiple-page application. For each mini SPA, we use a simple JavaScript routing system to organize the states of the application and switch between different views by watching changes on the URL. The technical stack for backend consists of operating system, web server, database, and programming logic. This book chooses ASP.NET Core Razor Pages and SQL Server as the backend framework. A Razor page consists of a Razor view

and a code behind file. Each Razor page is self-contained with its own view and code organized together, resulting in a simpler app, which makes coding page-focused scenarios easier and more productive. The front-end components enable the user's interaction with the web application. In this book, we choose TypeScript, npm, WebPack, RxJS, and Angular as our front-end technical stack. TypeScript is a modern JavaScript development language that provides optional static type checking, classes, and interfaces. It also offers advanced Intellisense, auto-completion, navigation, and refactoring, which makes code easier to read and understand. WebPack is a bundler and it comes in handy when you need to pack multiple assets together into a dependency graph. There is a rising tendency to use WebPack because it can fulfil nearly all tasks that you would perform through a task runner. RxJS is a library for reactive programming using observables, which make it easier to compose asynchronous or callback-based code. This book will explain how to use all of these technologies together to create a modern web application. Angular is a popular front-end JavaScript framework. Even though it is used for SPA development, we can still take advantage of this framework in building modern multiple-page web applications, i.e., we can use Angular in a non-SPA way via Angular elements. Angular elements are Angular components packaged as custom elements, a web standard for defining new HTML elements in a framework-agnostic way. This book shows how to embed Angular elements into our modern MPA project without having to migrate an entire application to Angular. This book also includes the other selected topics, including how to use Microsoft ML.NET to solve machine learning problems, such as classification, regression, and clustering; how to create various charts and graphics using ECharts; how to use SignalR to add real-time features to your web apps; how to use dependency injection, and how to create custom tag helpers and Razor Class Libraries in Razor Pages.

Pro ASP.NET Core MVC ADAM FREEMAN, 2016-09-15 Visual Studio 2017 updates for this book are now available. Follow the Download Source Code link for this book on the Apress website. Now in its 6th edition, the best selling book on MVC is now updated for ASP.NET Core MVC. It contains detailed explanations of the new Core MVC functionality which enables developers to produce leaner, cloud optimized and mobile-ready applications for the .NET platform. This book puts ASP.NET Core MVC into context and dives deep into the tools and techniques required to build modern, cloud optimized extensible web applications. All the new MVC features are described in detail and the author explains how best to apply them to both new and existing projects. The ASP.NET Core MVC Framework is the latest evolution of Microsoft's ASP.NET web platform, built on a completely new foundation. It represents a fundamental change to how Microsoft constructs and deploys web frameworks and is free of the legacy of earlier technologies such as Web Forms. ASP.NET Core MVC provides a host agnostic framework and a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility. Best-selling author Adam Freeman has thoroughly revised this market-leading book and explains how to get the most from ASP.NET Core MVC. He starts with the nuts-and-bolts and shows you everything through to

advanced features, going in-depth to give you the knowledge you need. This book follows the same format and style as the popular previous editions but brings everything up to date for the new ASP.NET Core MVC release. It presents a fully worked case study of a functioning ASP.NET MVC application that readers can use as a template for their own projects. What You Will Learn: Gain a solid architectural understanding of ASP.NET Core MVC Explore the entire ASP.NET MVC Framework as a cohesive whole See how MVC and test-driven development work in action Learn what's new in ASP.NET Core MVC and how best to apply these new features to your own work See how to create RESTful web services and Single Page Applications Build on your existing knowledge of previous MVC releases to get up and running with the new programming model quickly and effectively Who This Book Is For: This book is for web developers with a basic knowledge of ASP.NET and C# who want to incorporate the latest improvements and functionality in the new ASP.NET Core MVC Framework.

Pro ASP.NET Core MVC 2 Adam Freeman, 2017-10-24 Now in its 7th edition, the best selling book on MVC is updated for ASP.NET Core MVC 2. It contains detailed explanations of the Core MVC functionality which enables developers to produce leaner, cloud optimized and mobile-ready applications for the .NET platform. This book puts ASP.NET Core MVC into context and dives deep into the tools and techniques required to build modern, cloud optimized extensible web applications. All the new MVC features are described in detail and the author explains how best to apply them to both new and existing projects. The ASP.NET Core MVC Framework is the latest evolution of Microsoft's ASP.NET web platform, built on a completely new foundation. It represents a fundamental change to how Microsoft constructs and deploys web frameworks and is free of the legacy of earlier technologies such as Web Forms. ASP.NET Core MVC provides a host agnostic framework and a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility. Best-selling author Adam Freeman has thoroughly revised this market-leading book and explains how to get the most from ASP.NET Core MVC. He starts with the nuts-and-bolts and shows you everything through to advanced features, going in-depth to give you the knowledge you need. The book includes a fully worked case study of a functioning web application that readers can use as a template for their own projects. What's New in This Edition Fully updated for Visual Studio 2017, C# 7 and .NET Core 2 Coverage of new features such as view filters Wider platform and tooling coverage than ever before, with more on Visual Studio Code and working with .NET Core on non-Windows platforms Docker-based application deployment What You Will Learn Gain a solid architectural understanding of ASP.NET Core MVC Explore the entire ASP.NET MVC Framework as a cohesive whole See how MVC and test-driven development work in action Learn what's new in ASP.NET Core MVC 2 and how best to apply these new features to your own work See how to create RESTful web services and Single Page Applications Build on your existing knowledge of previous MVC releases to get up and running with the new programming model quickly and effectively Who This Book Is For This book is for web developers with a basic knowledge of ASP.NET and C# who want to incorporate the latest improvements and functionality in the ASP.NET

Core MVC 2 Framework.

The Missing Bootstrap 5 Guide Jeppe Schaumburg Jensen, 2022-08-26 Make your website stand out by unlocking the full potential of Bootstrap 5 and creating efficient UIs Key Features Find out how to customize all parts of Bootstrap 5 with Sass, including working with the utility API Create a unique website using only Bootstrap 5 with Sass customization and interactive features Grasp advanced Bootstrap 5 topics related to Sass, CSS, JavaScript, and source code optimization Book Description Bootstrap is one of the world's most popular and easy-to-use frontend UI toolkits for building responsive websites, but few know how to get the most out of its vast range of components, utilities, JavaScript plugins, and other features. The Missing Bootstrap 5 Guide will help you customize Bootstrap 5 with Sass to achieve a layout that stands out from the crowd, enabling you to create something unique that doesn't look like it was created with Bootstrap. With this practical guide to Bootstrap customization, developers working with Bootstrap will be able to utilize powerful customization techniques to create websites with unique designs and exclusive features. You'll see how you can develop a visually appealing website quickly and easily by taking a hands-on approach to customizing your website using advanced features of CSS, Sass, and JavaScript. Starting with learning how the Bootstrap 5 visual style is created with Sass, you'll find out how to customize it to fit your needs while achieving the website look you want. You'll then use this knowledge to create a website using most of Bootstrap 5's components and customization with Sass and JavaScript. Finally, you'll explore various advanced Bootstrap 5 topics related to Sass, CSS, JavaScript, and source code optimization. By the end of this book, you'll be able to design and build modern, captivating, and unique websites on your own using the immense capabilities of Bootstrap 5. What you will learn Identify the most important Sass features for using Bootstrap 5 Understand the structure and content of Sass code used in Bootstrap 5 Explore customization options, colors, layout, content, forms, components, helpers, and utilities Find out how to customize, extend, and improve a website to make it unique Discover different ways of using the CSS custom properties of Bootstrap 5 Get to grips with Bootstrap 5 source code optimization Who this book is for This book is for UI designers and developers who are familiar with HTML and have prior experience with Bootstrap. Frontend as well as backend developers using Bootstrap, who don't know how to code CSS but have a solid grasp on HTML, will also find this book useful. Experienced users of the default Bootstrap files can use this book to learn all about customization and other advanced features.

Building Web Applications with .NET Core 2.1 and JavaScript Philip Japikse, Kevin Grossnicklaus, Ben Dewey, 2019-12-13 Roll up your sleeves and jump into building web applications using .NET Core 2.1 and the most popular JavaScript frameworks. You will start by building a data access layer using Entity Framework Core, a RESTful service using ASP.NET Core, and then you will build a web application following the MVC pattern, also using ASP.NET Core. The resulting application is an example e-commerce site using the most appropriate capabilities in .NET Core for building a line of business

applications. The second half of Building Web Applications with .NET Core 2.1 and JavaScript is dedicated to teaching you how to develop applications on the client with JavaScript, BootStrap, and related tooling such as TypeScript, WebPack, NPM, and more. Each JavaScript framework will build the same UI as the ASP.NET Core web application from the first half of the book, leveraging the same ASP.NET Core RESTful service and Entity Framework Core data access layer. Building the same UI in the different JavaScript frameworks provides the context and knowledge to reasonably compare and contrast the tools. What You Will Learn Ramp up quickly on Entity Framework Core and ASP.NET Core Use TypeScript to deliver better JavaScript Manage your JavaScript build process Know how to build UIs with ASP.NET Core MVC, Angular, and React to make better decisions on which technologies to adopt in your projects Conduct an apples-to-apples comparison of ASP.NET Core, Angular, and React Who This Book Is For .NET architects, consultants, and developers who want to modernize their skill set. Some understanding of JavaScript and the Web is useful.

JavaScript: Novice to Ninja Darren Jones, 2017-09-20 JavaScript is a must-have skill for all web developers. JavaScript: Novice to Ninja is a fun, practical, and comprehensive guide to the modern usage of this deceptively powerful language. Comprehensively updated to cover ECMAScript 6 and modern JavaScript development, the second edition of this step-by-step introduction to coding in JavaScript will show you how to solve real-world problems, design eye-catching animations, build smarter forms, and develop richer applications. Learn the basics of JavaScript programming: functions, methods, properties, loops and logic Use events to track user interactions Build smarter web forms that improve the user experience Work with the document object model (DOM) and Ajax to dynamically update your pages Add functionality to your apps using HTML5's powerful APIs Use Test Driven Development methodology to write more robust code Build a complete, working JavaScript quiz app from scratch

Learn Bootstrap: The Collection Maria Antonietta Perna, Syed Fazle Rahman, Ilya Bodrov-Krukowski, Ahmed Bouchefra, Craig Watson, Rhiana Heath, Ivaylo Gerchev, George Martsoukos, Ashraff Hathibelagal, Manjunath M, Zeeshan Chawdhary, David Attard, Callum Hopkins, Reggie Dawson, 2018-08-06 Bootstrap stands as the most popular open-source, front-end framework on the Web. Since its official release in 2011, it has undergone several changes, and it's now one of the most stable and responsive frameworks available. It's loved by web developers of all levels, as it gives them the capability to build a functional, attractive website design within minutes. A novice developer with just some basic knowledge of HTML and little CSS can easily get started with Bootstrap. This collection presents three books: Your First Week With Bootstrap, a collection of articles introducing Bootstrap 8 Practical Bootstrap Projects, which presents several complete, real world Bootstrap projects Bootstrap: Related Tools & Skills, which contains a collection of articles outlining essential tools and skills that every Bootstrap developer should know. This collection is for all frontend developers who want to build responsive, mobile-first websites with Bootstrap. You'll need to be familiar with HTML and CSS and have a reasonable level of

understanding of JavaScript in order to follow the discussion.

Your First Week With Bootstrap Syed Fazle Rahman, Maria Antonietta Perna, Ilya Bodrov-Krukowski, Ahmed Boucheфра, Craig Watson, Rhiana Heath, Ivaylo Gerchev, 2018-08-01 Bootstrap stands as one of the most popular, open-source, front-end frameworks on the Web. Since its official release in 2011, it has undergone several changes, and it's now one of the most stable and responsive frameworks available. It's loved by web developers of all levels, as it gives them the capability to build a functional, attractive website design within minutes. A novice developer with just some basic knowledge of HTML and little CSS can easily get started with Bootstrap. In this book we'll take you through Bootstrap basics, introduce you to its major features, and get you building your first Bootstrap sites. It contains: Why I Love Bootstrap, and Why You Should Too by Syed Fazle Rahman Understanding Bootstrap: How it Works, and What's New by Syed Fazle Rahman Super Smart New Features to Win You Over by Maria Antonietta Perna Understanding Bootstrap Modals by Syed Fazle Rahman A Deep Dive into the Bootstrap Form Component by Ilya Bodrov-Krukowski The Card Component: a Complete Introduction by Ahmed Boucheфра How to Build a Responsive Type Scale with Bootstrap by Craig Watson A Beginner's Guide to the Latest Bootstrap Utility Classes by Ilya Bodrov-Krukowski 3 Tips for Speeding Up Your Bootstrap Website by Maria Antonietta Perna Customizing Bootstrap jQuery Plugins by Maria Antonietta Perna 8 Tips for Improving Bootstrap Accessibility by Rhiana Heath Front-end Frameworks: Custom vs Ready-to-use Solutions by Ivaylo Gerchev This book is for all frontend developers who want to build responsive, mobile-first websites. You'll need to be familiar with HTML and CSS and have a reasonable level of understanding of JavaScript in order to follow the discussion.

Building Web Apps with Spring 5 and Angular Ajitesh Shukla, 2017-08-24 A complete guide to build robust and scalable web applications with Spring and Angular. About This Book This hands on guide will teach you how to build an end-to-end modern web application using Spring and Angular. It is easy to read and will benefit Java developers who have been used to develop the back-end part of web application while front-end (UI) has been left for UI developers. Learn the core aspects involved in developing the backend and the UI, right from designing to integrating and deploying. Who This Book Is For This book is targeted towards Java Web Developers with a basic knowledge of Spring who want to build complete web applications in a fast and effective way. They will want to gain a stronghold on both frontend and backend development to advance in their careers. What You Will Learn Set up development environment for Spring Web App and Angular app. Process web request and response and build REST API endpoints. Create data access components using Spring Web MVC framework and Hibernate Use Junit 5 to test your application Learn the fundamental concepts around building Angular Configure and use Routes and Components. Protect Angular app content from common web vulnerabilities and attacks. Integrate Angular apps with Spring Boot Web API endpoints Deploy the web application based on CI and CD using Jenkins and Docker containers In Detail Spring is the most popular application development framework being adopted by millions of

developers around the world to create high performing, easily testable, reusable code. Its lightweight nature and extensibility helps you write robust and highly-scalable server-side web applications. Coupled with the power and efficiency of Angular, creating web applications has never been easier. If you want build end-to-end modern web application using Spring and Angular, then this book is for you. The book directly heads to show you how to create the backend with Spring, showing you how to configure the Spring MVC and handle Web requests. It will take you through the key aspects such as building REST API endpoints, using Hibernate, working with Junit 5 etc. Once you have secured and tested the backend, we will go ahead and start working on the front end with Angular. You will learn about fundamentals of Angular and Typescript and create an SPA using components, routing etc. Finally, you will see how to integrate both the applications with REST protocol and deploy the application using tools such as Jenkins and Docker. Style and approach This is a straightforward guide that shows how to build a complete web application in Angular and Spring.

ASP.NET Core 5 Secure Coding Cookbook Roman Canlas,Ed Price,2021-07-16 Learn how to secure your ASP.NET Core web app through robust and secure code Key FeaturesDiscover the different types of security weaknesses in ASP.NET Core web applications and learn how to fix themUnderstand what code makes an ASP.NET Core web app unsafeBuild your secure coding knowledge by following straightforward recipesBook Description ASP.NET Core developers are often presented with security test results showing the vulnerabilities found in their web apps. While the report may provide some high-level fix suggestions, it does not specify the exact steps that you need to take to resolve or fix weaknesses discovered by these tests. In ASP.NET Secure Coding Cookbook, you'll start by learning the fundamental concepts of secure coding and then gradually progress to identifying common web app vulnerabilities in code. As you progress, you'll cover recipes for fixing security misconfigurations in ASP.NET Core web apps. The book further demonstrates how you can resolve different types of Cross-Site Scripting. A dedicated section also takes you through fixing miscellaneous vulnerabilities that are no longer in the OWASP Top 10 list. This book features a recipe-style format, with each recipe containing sample unsecure code that presents the problem and corresponding solutions to eliminate the security bug. You'll be able to follow along with each step of the exercise and use the accompanying sample ASP.NET Core solution to practice writing secure code. By the end of this book, you'll be able to identify unsecure code causing different security flaws in ASP.NET Core web apps and you'll have gained hands-on experience in removing vulnerabilities and security defects from your code. What you will learnUnderstand techniques for squashing an ASP.NET Core web app security bugDiscover different types of injection attacks and understand how you can prevent this vulnerability from being exploitedFix security issues in code relating to broken authentication and authorizationEliminate the risks of sensitive data exposure by getting up to speed with numerous protection techniquesPrevent security misconfiguration by enabling ASP.NET Core web application security featuresExplore other ASP.NET web application vulnerabilities and secure coding best practicesWho this book is for This ASP.NET Core book is for

intermediate-level ASP.NET Core web developers and software engineers who use the framework to develop web applications and are looking to focus on their security using coding best practices. The book is also for application security engineers, analysts, and specialists who want to know more about securing ASP.NET Core using code and understand how to resolve issues identified by the security tests they perform daily.

.NET MAUI Cross-Platform Application Development Roger Ye, 2024-03-25 Build apps using .NET MAUI and Blazor with this comprehensive, revised guide for .NET 8. Purchase of the print or Kindle book includes a free eBook in PDF format. Key Features Handle data effectively with expanded coverage on the MVVM model and data binding Integrate platform-specific code using plugins and custom controls Migrate from Xamarin.Forms to .NET MAUI for the latest hybrid app development capabilities Book DescriptionAn evolution of Xamarin.Forms, .NET MAUI is a cross-platform framework for creating native mobile and desktop apps with C# and XAML. Using .NET MAUI, you can develop apps that'll run on Android, iOS, macOS, and Windows from a single shared codebase. In this revised edition of .NET MAUI Cross-Platform Application Development you will be introduced to .NET 8 and get up to speed with app development in no time. The book begins by showing you how to develop a cross-platform application using .NET MAUI, including guidance for migrating from Xamarin.Forms. You'll gain all the knowledge needed to create a cross-platform application for Android, iOS, macOS, and Windows following an example project step by step. As you advance, you'll integrate the latest frontend technology into your app using Blazor components, including the new Blazor Bindings feature. After this, you'll learn how to test and deploy your apps. With new coverage on creating mock .NET MAUI components, you can develop unit tests for your application. You will additionally learn how to perform Razor component testing using bUnit. By the end of this book, you'll have learned how to develop your own cross-platform applications using .NET MAUI. What you will learn Develop high-performance apps with logical user interfaces Improve the maintainability of apps using the MVVM design pattern Understand the progression from Xamarin.Forms and how to migrate to .NET Delve into templated components and Razor class libraries for crafting Blazor UI elements Publish your creations to major app stores with guidance on preparation and processes Extend your testing repertoire with bUnit for Razor components for reliable unit testing Who this book is for This book is for mobile developers interested in cross-platform application development with working experience of the .NET Core framework, as well as junior engineers who've just begun their career in mobile app development. Native app developers (desktop) or Xamarin developers who want to migrate to .NET MAUI will also benefit from this book. Basic knowledge of modern object-oriented programming languages, such as C#, Java or Kotlin, is assumed.

Modernizing Drupal 10 Theme Development Luca Lusso, 2023-08-31 A comprehensive guide to creating Drupal themes from scratch, from design to fully styled websites with custom Twig templates and headless architecture Key Features Explore real-world examples with proven methodologies to gain a deeper insight into the Drupal theme layer Learn

how to translate a graphic design into a maintainable and robust Drupal theme Improve performance and accessibility with a decoupled frontend to consume data exposed by Drupal's APIs Purchase of the print or Kindle book includes a free PDF eBook Book Description Working with themes in Drupal can be challenging, given the number of layers and APIs involved. Modernizing Drupal 10 Theme Development helps you explore the new Drupal 10's theme layer in depth. With a fully implemented Drupal website on the one hand and a set of Storybook components on the other, you'll begin by learning to create a theme from scratch to match the desired final layout. Once you've set up a local environment, you'll get familiarized with design systems and learn how to map them to the structures of a Drupal website. Next, you'll bootstrap your new theme and optimize Drupal's productivity using tools such as webpack, Tailwind CSS, and Browsersync. As you advance, you'll delve into all the theme layers in a step-by-step way, starting from how Drupal builds an HTML page to where the template files are and how to add custom CSS and JavaScript. You'll also discover how to leverage all the Drupal APIs to implement robust and maintainable themes without reinventing the wheel, but by following best practices and methodologies. Toward the end, you'll find out how to build a fully decoupled website using json:api and Next.js. By the end of this book, you'll be able to confidently build custom Drupal themes to deliver state-of-the-art websites and keep ahead of the competition in the modern frontend world. What you will learn Map design systems made by Storybook components to Drupal structures Understand and use render arrays and Twig templates Get familiarized with the new Single Directory Component feature introduced in Drupal 10.1 Define, import, and use CSS and JavaScript libraries Discover how to style content created with fields and paragraphs Define, place, customize, and style blocks Explore advanced topics like extending Twig, making a theme configurable, and boosting performance and accessibility Find out how to build a decoupled website using json:api and Next.js Who this book is for If you are a Drupal backend developer or frontend developer who wants to create Drupal themes that follow industry best practices and are fast and maintainable, this book is for you. Basic knowledge of HTML, CSS, and JavaScript and working knowledge of a CMS are needed to grasp the concepts present in this book.

Front-end Development with ASP.NET Core, Angular, and Bootstrap Simone Chiaretta, 2018-02-14 Stay ahead of the web evolution with elegant combination front-end development Front-End Development with ASP.NET Core, Angular, and Bootstrap is the professional's guide to fast, responsive web development. Utilizing the most popular combination of web technologies for Microsoft developers, this guide provides the latest best practices and ASP.NET MVP guidance to get you up to speed quickly. The newest ASP.NET - now called ASP.NET Core - is leaner, easier to use, and less bound to the operating system and IDE. colle, giving you the perfect opportunity to leverage third-party frameworks and libraries that provide functionalities not native to ASP.NET Core and Visual Studio. This book shows you how to integrate ASP.NET Core with Angular, Bootstrap, and similar frameworks, with a bit of jQuery Mobile, Nuget, continuous deployment, Bower dependencies, and Gulp/Grunt build systems, including development beyond Windows on Mac and Linux. With clear, concise

instruction and expert insight, this guide is an invaluable resource for meeting the demands of modern web development. Combine ASP.NET Core with different tools, frameworks, and libraries Utilize third-party libraries with non-native functionalities Adopt the most up-to-date best practices for front-end development Develop flexible, responsive design sites The world of web development is evolving faster than ever before, and the trend is toward small, focused frameworks with modular capabilities. Microsoft has noticed, and upgraded ASP.NET Core to align with the latest industry expectations. Front-End Development with ASP.NET Core, Angular, and Bootstrap helps you elegantly integrate these technologies to develop the sites that the industry demands.

[An Atypical ASP.NET Core 6 Design Patterns Guide](#) Carl-Hugo Marcotte, Abdelhamid Zebdi, 2022-03-28 The professional developer's essential guide to building robust, maintainable, and flexible web apps by leveraging C# 10 and .NET 6 features and component- and application-scale design patterns Key Features Apply the SOLID architectural principles and software design patterns effectively with a focus on dependency injection Discover modern application architectures such as vertical slice, clean architecture, and event-driven microservices Explore full-stack ASP.NET Core with an overview of Blazor Book Description An Atypical ASP.NET Core 6 Design Patterns Guide, Second Edition approaches programming like playing with LEGO®: snapping small pieces together to create something beautiful. Thoroughly updated for ASP.NET Core 6, with further coverage of microservices patterns, data contracts, and event-driven architecture, this book gives you the tools to build and glue reliable components together to improve your programmatic masterpieces. The chapters are organized based on scale and topic, allowing you to start small and build on a strong base, the same way that you would develop a program. You will begin by exploring basic design patterns, SOLID architectural principles, dependency injection, and other ASP.NET Core 6 mechanisms. You will explore component-scale patterns, and then move to higher level application-scale patterns and techniques to better structure your applications. Finally, you'll advance to the client side to connect the dots with tools like Blazor and make ASP.NET Core a viable full-stack web development framework. You will supplement your learning with practical use cases and best practices, exploring a range of significant Gang of Four (GoF) design patterns along the way. By the end of the book, you will be comfortable combining and implementing patterns in different ways, and crafting software solutions of any scale. What you will learn Apply the SOLID principles for building flexible and maintainable software Get to grasp .NET dependency Injection Work with GoF design patterns such as strategy, decorator, facade, and composite Explore the MVC patterns for designing web APIs and web applications using Razor Discover layering techniques and tenets of clean architecture Become familiar with CQRS and vertical slice architecture as an alternate to layering Understand microservices and when they can benefit your applications Build an ASP.NET user interfaces from server-side to client-side Blazor Who this book is for The book is intended for intermediate software and web developers with an understanding of .NET who want to write flexible, maintainable, and robust code for building scalable web applications. Knowledge of C# programming and an

understanding of web concepts like HTTP is necessary.

Aurelia in Action Sean Hunter, 2018-07-24 Summary Aurelia in Action teaches you how to build fantastic single-page applications with the Aurelia framework. You'll learn about modern design practices and a modular architecture based on web components, perfect for hybrid web + mobile apps. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Try Aurelia, and you may not go back to your old web framework. Flexible and efficient, Aurelia enforces modern design practices and a modular architecture based on web components. It's perfect for hybrid web + mobile apps, with hot features like dynamic routes, pluggable pipelines, and APIs for nearly every flavor of JavaScript. About the Book Aurelia in Action teaches you how to build extraordinary web applications using the Aurelia framework. You'll immediately take advantage of key elements like web components and decorators when you start to explore the book's running example: a virtual bookshelf. As the app unfolds, you'll dig into templating and data binding the Aurelia way. To complete the project, you'll take on routing and HTTP, along with tuning, securing, and deploying your finished product. What's Inside Templating and data-binding Communication between components Server-side and SPA design techniques View composition About the Reader Written for developers comfortable with JavaScript and MVC-style web development. About the Author Sean Hunter is a web developer with nearly 10 years of experience. He's extremely passionate about all things Aurelia and has been working with the framework in production since the early beta days. Sean got a taste for teaching developers how to get started with Aurelia while visiting user groups across the UK, and he's been excited to expand on this teaching effort with this book. These days, Sean is working in a variety of web-development technologies with companies across Australia, and he blogs at <https://sean-hunter.io>. Table of Contents PART 1 - INTRODUCTION TO AURELIA Introducing Aurelia Building your first Aurelia application PART 2 - EXPLORING AURELIA View resources, custom elements, and custom attribute Aurelia templating and data binding Value converters and binding behaviors Intercomponent communication Working with forms Working with HTTP Routing Authentication Dynamic composition Web Components and Aurelia Extending Aurelia Animation PART 3 - AURELIA IN THE REAL WORLD Testing Deploying Aurelia applications

Mastering ASP.net Cybellium Ltd, Embark on a Profound Journey to Mastering ASP.NET Web Development In a digital landscape driven by dynamic web applications, mastering the art of ASP.NET is essential for creating robust and interactive web solutions that engage users and empower businesses. Mastering ASP.NET is your ultimate guide to navigating the intricate world of web development using the powerful ASP.NET framework. Whether you're a seasoned developer or an aspiring coder, this book equips you with the knowledge and skills needed to excel in creating cutting-edge web applications. About the Book: Mastering ASP.NET takes you on a transformative journey through the intricacies of web development, from foundational concepts to advanced techniques. From front-end design to back-end functionality, this book covers it all. Each

chapter is meticulously designed to provide both a deep understanding of the framework and practical applications in real-world scenarios. Key Features:

- Foundational Understanding: Build a strong foundation by comprehending the core principles of ASP.NET, including MVC architecture, Razor syntax, and server controls.
- Web Forms and MVC: Explore the different approaches to web development with ASP.NET, understanding the differences and choosing the best approach for your projects.
- Data Binding and Models: Master data binding techniques, model binding, and working with data sources for creating dynamic and data-driven web applications.
- User Interface Design: Dive into responsive design, CSS styling, client-side scripting, and creating visually appealing user interfaces.
- Security and Authentication: Learn how to implement security measures, including user authentication, authorization, and protecting against common web vulnerabilities.
- Web API and RESTful Services: Gain insights into building RESTful APIs, creating Web API controllers, and consuming APIs for seamless integration.
- Entity Framework: Understand how to work with Entity Framework for data access and management, ensuring efficient database interactions.
- Testing and Debugging: Explore strategies for testing and debugging ASP.NET applications, ensuring code quality and reliable performance.
- Challenges and Trends: Discover challenges in web development, from cross-browser compatibility to scalability, and explore emerging trends shaping the future of ASP.NET development.

Who This Book Is For: Mastering ASP.NET is designed for developers, programmers, web designers, students, and anyone passionate about web development. Whether you're aiming to enhance your skills or embark on a journey toward becoming an ASP.NET expert, this book provides the insights and tools to navigate the complexities of creating powerful web applications. © 2023 Cybellium Ltd. All rights reserved. www.cybellium.com

Software Architecture with C# 12 and .NET 8 Gabriel Baptista, Francesco Abbruzzese, 2024-02-28 A book for the aspiring .NET software architect – design scalable and high-performance enterprise solutions using the latest features of C# 12 and .NET 8 Purchase of the print or Kindle book includes a free PDF eBook Key Features Get introduced to software architecture fundamentals and begin applying them in .NET Explore the main technologies used by software architects and choose the best ones for your needs Master new developments in .NET with the help of a practical case study that looks at software architecture for a travel agency Book Description Software Architecture with C# 12 and .NET 8 puts high-level design theory to work in a .NET context, teaching you the key skills, technologies, and best practices required to become an effective .NET software architect. This fourth edition puts emphasis on a case study that will bring your skills to life. You'll learn how to choose between different architectures and technologies at each level of the stack. You'll take an even closer look at Blazor and explore OpenTelemetry for observability, as well as a more practical dive into preparing .NET microservices for Kubernetes integration. Divided into three parts, this book starts with the fundamentals of software architecture, covering C# best practices, software domains, design patterns, DevOps principles for CI/CD, and more. The second part focuses on the technologies, from choosing data storage in the cloud to implementing frontend microservices and

working with Serverless. You'll learn about the main communication technologies used in microservices, such as REST API, gRPC, Azure Service Bus, and RabbitMQ. The final part takes you through a real-world case study where you'll create software architecture for a travel agency. By the end of this book, you will be able to transform user requirements into technical needs and deliver highly scalable enterprise software architectures. What you will learn

- Program and maintain Azure DevOps and explore GitHub Projects
- Manage software requirements to design functional and non-functional needs
- Apply architectural approaches such as layered architecture and domain-driven design
- Make effective choices between cloud-based and data storage solutions
- Implement resilient frontend microservices, worker microservices, and distributed transactions
- Understand when to use test-driven development (TDD) and alternative approaches
- Choose the best option for cloud development, from IaaS to Serverless

Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the .NET stack. Basic familiarity with C# and .NET is required to get the most out of this software architecture book.

Microsoft Blazor Peter Himschoot, 2020-05-29 Build web applications in C# and Microsoft .NET that run in any modern browser. This second edition is updated to work with the release version of Blazor and covers Blazor's use in creating both server-side and WebAssembly Blazor applications. Developers are able to use all their experience in .NET along with thousands of existing libraries, right in the browser. There is important new coverage in this edition on the new and improved Razor syntax, how to easily validate user input with Blazor validation, and how to build complex interacting components with Cascading Properties and Templated Components. You will learn how to build user interfaces and present data to a user for display and modification, capturing the user's changes via data binding. The book shows you how to access a rich library of .NET functionality such as a component model for building a composable user interface, including how to develop reusable components that can be used across many pages and websites. Also covered is data exchange with a server, giving you access to microservices and database services. Blazor provides a fresh take on web development by eliminating the need for you to learn different languages and frameworks for client- and server-side development. Blazor allows C# and .NET to be used on all sides, providing a robust feature set that is well suited toward scalable, enterprise-level applications. This book gets you started using this important new toolkit for web application development. What You Will Learn

- Build user interfaces and display data for users to edit
- Capture the user's changes via data binding
- Transfer data back and forth between server and client
- Communicate with microservices and database services
- Develop reusable components and assemble them into bigger components
- Use routing to build single-page applications (SPAs)
- Build Blazor libraries that are reusable across applications

Who This Book Is For Experienced .NET developers who want to apply their existing skills toward building professional-quality, client-side web applications that run in any browser. The book is for web developers who want to step away from JavaScript and its complexities, and instead use a proven technology (.NET) that is robust

toward creating enterprise-quality applications that scale and are reliable, that provide good user experience.

ASP.NET jQuery Cookbook Sonal Aneel Allana, 2016-02-25 Over 60 recipes for writing client script in ASP.NET 4.6 applications using jQuery About This Book This is a step-by-step guide to solve common problems in ASP.NET applications Easy-to-follow recipes to write client scripts effortlessly and quickly A hands-on approach that will show you how to interface jQuery with ASP.NET websites and MVC Who This Book Is For This book is for ASP.NET developers who want to use jQuery to write client scripts for cross-browser compatibility. The book assumes no prior knowledge of ASP.NET or jQuery, and every recipe is self-contained and explained in an easy-to-follow manner. Familiarity with Visual Studio and MS SQL Server is preferred, but not compulsory. What You Will Learn Download and include jQuery in ASP.NET websites and MVC Use jQuery selectors with ASP.NET server controls Get to know about event handling and DOM traversal Deploy jQuery for visual effects and animations Develop AJAX-enabled ASP.NET applications Create your own plugins Solve common problems using less code and cut down your development time In Detail jQuery is a lightweight JavaScript library that has changed the landscape of client scripting in web applications. Developed by John Resig in 2006, it has taken the web by storm because of its cross-browser compatibility and the ability to get more done with less code. It has gained popularity with ASP.NET developers and is now distributed with Visual Studio and the NuGet package manager. ASP.NET jQuery Cookbook explores the wide range of utilities that the jQuery library provides. It teaches you the nitty-gritty of plugging in these features in ASP.NET web applications. It covers every aspect of interfacing the library, right from downloading and including jQuery on web pages to selecting controls, handling events, and creating animations. This book also walks you through DOM traversal and manipulation in ASP.NET and then through visual effects and graphics in ASP.NET sites. It explores advanced features such as posting AJAX requests and writing plugins. It will provide you with all the information you need to use this library confidently with ASP.NET. Style and approach This book takes a hands-on, pragmatic approach to solving common problems in ASP.NET applications using jQuery. Every recipe has detailed steps with screen captures and code snippets. The necessary theoretical concepts are introduced as and when needed.

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