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# Download Free Programming ASPNET Building Web Applications And Services With ASPNET

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Audience This book was written for anyone interested in learning one of the most effective and widely-used technology stacks for developing highly-interactive, professional-grade, database-driven Web applications-ASP.NET Core Razor Pages, C#.NET, HTML, Bootstrap, CSS, JavaScript, and Entity Framework Core-including novice software developers, professional software developers, and college or university students enrolled in a one-semester course or two-semester sequence of courses in Web application development. Organi-

zation Part I provides an overview of some of the major concepts and technologies associated with ASP.NET Core Web application development as well as ASP.NET Core solutions and projects. Part II describes how to develop an ASP.NET Core Web application, including how to create and use HTML elements and how to perform model validation to keep bad data out of the system. The concepts in this part of the book will lay the foundation required for learning the C# programming language in the context of an ASP.NET Core Web application. Part III describes how to program in

the C# programming language, including how to perform assignment, conversion, control, string, arithmetic, date and time, array, collection, and file system operations and how to create custom C# classes-in the context of an ASP.NET Core Web application. Part IV describes how to develop a multiple-page ASP.NET Core Web application, including how to maintain the application's state and how to use layout pages to give the pages of the application a consistent look. Part V describes how to improve the user experience of an ASP.NET Core Web application, including how

to use Bootstrap to make the application responsive and attractive when displayed on a phone, tablet, laptop, and desktop, how to use Cascading Style Sheets to style HTML elements consistently across all the pages of the application, and how to use JavaScript to write code that needs to be executed in the browser. Part VI describes how to connect an ASP.NET Core Web application to a SQL Server database, including how to install and use Entity Framework Core, how to perform database query operations, and how to perform database table maintenance. Part VII describes how to create an ASP.NET Core Web application service, including a NetMail email service and a MailKit email service. Features Real-Life Examples A significant proportion of the examples in the text are drawn from the real-life experiences of the author's own software development practice that began in 1987. Clear-Minded, Consistent, and Concise Prose Every effort has been made to present concepts clearly and logically, utilize consistent language and terminology across all chapters, and articulate concepts fully yet concisely. Accessible Language Although the subject matter of this book is highly technical and special-

ized, trendy and/or arcane language that is inaccessible to the average learner is either clearly defined or replaced in favor of clear and generalizable terminology. Delivering rich, Web 2.0-style experiences has never been easier. This book gives you a complete hands-on introduction to Microsoft ASP.NET AJAX 1.0, the new framework that offers many of the same benefits for Ajax development that ASP.NET provides for server-side development. With Programming ASP.NET AJAX, you'll learn how to create professional, dynamic web pages with Ajax in no time. Loaded with code and examples that demonstrate key aspects of the framework, this book is ideal not only for ASP.NET developers who want to take their applications a step further with Ajax, but for any web developers interested in ASP.NET AJAX, no matter what technology they use currently. That includes JavaScript programmers who would like to avoid the headaches of writing cross-browser code. Programming ASP.NET AJAX offers you: A high-level overview of the ASP.NET AJAX framework Functional code that you can cut and paste for use in your own applications The essentials of JavaScript and Ajax to help

you understand individual technologies used by the framework An organization that reflects the framework's packages, including Extensions, Control Toolkit, the Futures CTP, and the AJAX Library Sidebars throughout the book that identify and propose solutions to potential security breaches Ways to use the standards-based AJAX Library with other platforms, such as PHP A complete chapter on the UpdatePanel control for making individual parts of a web page independently updateable -- one of the framework's most important elements Released previously as Programming Atlas to cover the beta version of the Microsoft framework, this edition is fully up-to-date and expanded for the official 1.0 release of ASP.NET AJAX. Written by Christian Wenz -- Microsoft MVP for ASP/ASP.NET and AJAX Control Toolkit Contributor -- Programming ASP.NET AJAX contains many hard-to-find details, along with a few unofficial ways to accomplish things. John Alexander and bestselling author Billy Hollis show programmers how to develop enterprise-level Web applications using Microsoft's popular programming language—Visual Basic.NET. Features the incomparable insights and programming

know-how of two popular Microsoft insiders, arming developers with proven tips and workarounds to use in their own projects Provides step-by-step instruction for creating business Web applications using ASP.NET and VB.NET Companion Web site contains all the code for the sample application

With Programming ASP.NET 3.5, you'll quickly learn to create state-of-the-art applications using Microsoft's popular web development technology and Visual Studio 2008. This updated bestseller provides comprehensive and easy-to-understand information to help you use several .NET 3.5 technologies for faster development and better web application performance-including ASP.NET AJAX for interactive user interfaces, LINQ for data access, and Windows Communication Foundation (WCF) for web services. Programming ASP.NET 3.5 includes examples and sample code that let you explore development with ASP.NET in more depth. With this book, you will: Learn about AJAX and ASP.NET server controls included with Visual Studio 2008 Discover how to use the DataSource and data-bound controls in ADO.NET Use the new LINQ API and learn how to make use of it

within ASP.NET pages Create a uniform look and feel throughout your application with Master Pages Use navigation controls to build site maps, menus, and breadcrumbs quickly and easily Build and use various web services with WCF Detect errors during development and handle them in your production code Learn how to configure and deploy your website Written by Microsoft technology experts Jesse Liberty, Dan Hurwitz, and Dan Maharry, Programming ASP.NET 3.5 is the best book for learning how to build dynamic, interactive web applications using Microsoft's latest technologies.

O'Reilly has once again updated its bestselling tutorial on ASP.NET, the world's leading web development tool from Microsoft. In Programming ASP.NET, Third Edition, authors Jesse Liberty and Dan Hurwitz give you the lowdown on the technology's latest version, ASP.NET 2.0, as well as Visual Studio 2005. Among the most significant improvements to ASP.NET 2.0 are new server controls and services that make you dramatically more productive. In fact, when compared to its predecessor, ASP.NET 2.0 reduces the amount of code

you have to write by about 75%. Creating interactive web applications has never been easier-but that still doesn't mean it's hassle-free! The difficulty in ASP.NET 2.0 is that it's so complete and flexible that there are many pieces that must be woven together to build a robust, scalable, and efficient application. Fortunately, Programming ASP.NET, Third Edition is on the case, dispensing all the information you need to be effective with this dynamic tool. For starters, the book features a comprehensive tutorial on Web Forms, the user interface that gives web applications their look and feel. It then offers detailed explanations of all new controls, including web server controls, HTML controls, and custom controls. Used properly, these controls are able to take care of nearly all the foundation work-security, data access, layout, etc.-that you would normally have to write yourself. Free of these burdensome tasks, you can instead focus on your specific application. Other new material found in this updated edition even shows you how to create ASP.NET 2.0 pages for mobile devices. With Programming ASP.NET, Third Edition at your side, there's virtually no end to the programming possibilities.

Learn the fundamentals of ASP.NET MVC and build real-world web applications using ASP.NET Core MVC About This Book Get a first-principles coverage of ASP.NET MVC and the latest release, Core This book is uniquely designed for developers who are looking to transition their skills into the .NET development field The standalone chapter structure leaves you free to explore ASP.NET MVC to immediately solve your pain points Who This Book Is For This book is for developers who want to learn to build web applications using ASP.NET Core, developers who want to make a career building web applications using Microsoft technology, and developers who are working in Ruby on Rails or other web frameworks and want to learn ASP.NET Core MVC. No knowledge of the ASP.NET platform or the .NET platform is required. Even though you do not need to have experience in C#, an understanding of the basic constructs (loops, conditionals, classes, and objects) of any modern programming language would be helpful. What You Will Learn Get to know the concepts of ASP.NET MVC and build a new static web page using HTML, CSS, and jQuery Set up a development environment and run a

sample application using the template Create a Controller with action methods Build a view using several features of the Razor View engine Construct a Model for ASP.NET Core MVC application Devise a custom mechanism to provide maximum flexibility to your application through routing Validate the user input on the client side using jQuery Enhance your applications using Bootstrap Explore new configuration and deployment scenarios—step by step guide to deploying ASP.NET Core web application in Linux In Detail ASP.NET Core MVC helps you build robust web applications using the Model-View-Controller design. This guide will help you in building applications which can be deployed on non-windows platforms such as Linux. In today's age, it is crucial that you possess the ability to separate the programming and business logic, and this is exactly what ASP.NET Core MVC application will help you achieve. This version comes with a number of improvements that enable fast, TD-D-friendly development to create sophisticated applications. You would also learn the fundamentals of Entity framework and on how to use the same in ASP.NET Core web applications. The book presents the

fundamentals and philosophies of ASP.NET Core. Starting with an overview of the MVC pattern, we quickly dive into the aspects that you need to know to get started with ASP.NET. You will learn about the core architecture of model, view, and control. Integrating your application with Bootstrap, validating user input, interacting with databases, and deploying your application are some of the things that you will be able to execute with this fast-paced guide. The end of the book will test your knowledge as you build a fully working sample application using the skills you've learned throughout the book. Style and approach This book takes a first-principles approach to help you understand and implement ASP.NET MVC solutions. It is focused primarily on giving you practical skills rather than the old conventional theoretical teaching. Build a simple, yet fully-functional modern web application using .NET Core 3.1, Entity Framework Core and Angular 9 Key Features Explore the latest edition of the best-selling book ASP.NET Core 2 and Angular 5 Design, build and deploy a Single Page Application or Progressive Web App with ASP.NET Core and Angular Adopt a full stack approach to handle data manage-

ment, Web APIs, application design, testing, SEO, security and deployment. Book Description Learning full stack development calls for knowledge of both frontend and backend web development. By covering the impressive capabilities of ASP.NET Core 3.1 and Angular 9, right from project setup through to the deployment phase, this book will help you to develop your skills effectively. The book will get you started with using the .NET Core framework and Web API Controllers to implement API calls and server-side routing in the backend. Next, you will learn to build a data model with Entity Framework Core and configure it using either a local SQL Server instance or cloud-based data stores such as Microsoft Azure. The book will also help you handle user input with Angular reactive forms and frontend and backend validators for maximum effect. You will later explore the advanced debugging and unit testing features provided by xUnit.net (.NET Core) and Jasmine, as well as Karma for Angular. Finally, you will implement various authentication and authorization techniques with the ASP.NET Core Identity system and the new IdentityServer, as well as deploy your apps on Windows and Lin-

ux servers using IIS, Kestrel, and Nginx. By the end of this book, you will be equipped with the skills you need to create efficient web applications using ASP.NET Core and Angular. What you will learn: Implement a Web API interface with ASP.NET Core and consume it with Angular using RxJS Observables Create a data model using Entity Framework Core with code-first approach and migrations support Set up and configure a SQL database server using a local instance or a cloud data store on Azure Perform C# and JavaScript debugging using Visual Studio 2019 Create TDD and BDD unit test using xUnit, Jasmine, and Karma Implement authentication and authorization using ASP.NET Identity, IdentityServer4, and Angular API Build Progressive Web Apps and explore Service Workers Who this book is for This book is for experienced ASP.NET developers who already know about ASP.NET Core and Angular and are looking to learn more about them and understand how to use them together to create production-ready Single Page Applications (SPAs) or Progressive Web Applications (PWAs). However, the fully-documented code samples (also available on GitHub) and the step-by-step implementa-

tion tutorials make this book easy-to-understand - even for beginners and developers who are just getting started.

This thoroughly revised and updated Second Edition provides an in-depth information that readers need to fully exploit the functionality of Microsoft's ASP.NET framework and Oracle's Database Server to build dynamic and interactive web applications that can handle a large number of simultaneous users. The book provides readers with information pertaining to ASP.NET 4.0 architecture; its installation, web controls, master pages, themes, state management, AJAX and deployment of web applications. It includes the Hypertext Markup Language (HTML) and the Cascading Style Sheet (CSS), which are used for designing the web pages. In order to facilitate an easy learning of intricate concepts involved in the development of data-driven dynamic web applications, the book provides a detailed treatment on the Oracle Structured Query Language (SQL) and Oracle PL/SQL. It also introduces the distributed architecture and discusses how ASP.NET framework, Oracle database and Internet Information Services (IIS) can be used to develop and deploy the solutions

for distributed environment. After going through this book, the students/professionals will be able to:

- Develop data-driven web applications using Oracle as back-end.
- Present data through data-bound controls.
- Manage consistent look and fill using master pages and themes.
- Develop stateful e-commerce applications.
- Develop rich interactive web applications using AJAX.
- Embed Microsoft Reports to produce dynamic printable output.
- Debug, deploy and secure web applications.

The book is intended to serve as a guide for the undergraduate and postgraduate students of Computer Science, Computer Applications and Information Technology. Besides, it would also be useful to IT professionals to enhance their technical skills.

**Key Features** More than 100 worked-out examples and 20 assignments. Around 200 objective and subjective type questions. Two real-world case studies with solutions. Project development work following the complete SDLC process model. Three appendices, namely Integrating Microsoft Reports in ASP.NET, Installation of Visual Studio 2010, and Answers to Chapter-end Practice Questions. New to the Second Edition Provides information

for designing and developing the web applications using Visual Studio. Includes two new chapters—one on Master Pages, Themes and State Management and the other on AJAX in ASP.NET and Web Deployment of Application. Includes the new features of ASP.NET 4.0. Gives additional questions in each chapter. Includes a CD-ROM, which contains programs (tested with ASP.NET 4.0 and compatible with Oracle 10g) corresponding to all the examples, assignments, case studies and the project included in the book. The installation processes of programs are described in the relevant chapters of the book.

Learn to develop secure, optimized, well-designed web applications in ASP.NET Core and get ready for job interviews.

**KEY FEATURES**

- Simplified demonstration of ASP.NET Core UI and service development, with expert-led implementation.
- In-depth coverage on async programming, application security, and performance optimization.
- Interview guide with extensive questions based on concepts and techniques around application development.

**DESCRIPTION** ASP.NET Core for Job Seekers is a practical resource for application devel-

opers and web developers who want to advance their careers. This book teaches you how to use ASP.NET Core to create web applications without a prior understanding of web application development. We develop our first web application and demonstrate how to execute, debug, and deploy them using ASP.NET Core. We'll start by creating our first web pages with the Razor and then create a simple phonebook application. Next, you will be exposed to the MVC design pattern and explore the simplicity of developing web pages using Razor. Moving on, you learn to construct and consume restful services with ASP.NET Core. Concepts and techniques include async/await pattern, middlewares, programming a pipeline, redirecting requests, and intercepting requests and responses. This book also houses dependency injection techniques, action filters, accessing data using Entity Framework Core, and proven approaches for creating databases. Toward the end, you'll learn about some of the most important components, such as improving performance, choosing the right architecture for an application program, and answering a slew of interview questions about ASP.NET Core and application



development. WHAT YOU WILL LEARN ● Learn to set up the application development environment around ASP.NET Core and other frameworks. ● Expert tips for debugging and deploying ASP.NET Core projects. ● Create UI applications with Razor and service APIs. ● Workaround middleware and filters for programming the ASP.NET Core pipeline. ● Create asynchronous programming code and configure dependency injection services. WHO THIS BOOK IS FOR If you're interested in building cross-platform, web, and cloud-native apps, you must learn ASP.NET Core and start building your programs. Readers should have basic knowledge of HTML and C#. TABLE OF CONTENTS 1. Introduction to ASP.NET Core 2. Setting Up the Development Environment 3. Running, Debugging, and Deploying ASP.NET Core Applications 4. Introduction to HTTP, HTML, CSS, and JavaScript 5. Developing ASP.NET Core web applications with Razor 6. Developing Restful services with ASP.NET Core 7. Async/await pattern and middleware in ASP.NET Core 8. Dependency injection and action filters in ASP.NET Core 9. State Management in ASP.NET Core 10. Introducing Accessing Data with ASP.NET Core 11. Opti-

mizing ASP.NET Core Applications 12. Securing ASP.NET Core Applications 13. Introducing Software Architectures 14. Landing a job

ASP.Net Web Developer's Guide provides information to make use of Microsoft's newest Web development platform. ASP.NET is a revolutionary programming framework that enables the rapid development of powerful web applications and services. Part of the emerging Microsoft .NET Platform, it provides the easiest and most scalable way to build, deploy and run distributed web applications that can target any browser or device. ASP.NET (formerly referred to as ASP+) is more than the next version of Active Server Pages (ASP); it is a unified Web development platform that provides the services necessary for developers to build enterprise-class Web applications. ASP .net Web Developer's Guide assists Web developers to quickly and easily build solutions for the Microsoft .NET platform. Programmers who are expert in asp and other languages will find this book invaluable. This book will appeal to all web developers - regardless of what language they are using or what platform they will be using. Comprehensive Coverage of the

Entire .net Framework for B2B commerce. ASP.NET 2.0 is an amazing technology that allows you to develop web sites and applications with very little hassle, and its power and depth enable it to host even the most complex applications available. Using code examples in C#, this invaluable beginner's guide shows you how to program web applications in ASP.NET 2.0 and see dynamic results with minimal effort. Through detailed explanations and working C# code examples, this popular author team eases you into the world of ASP.NET development and gradually introduces you to all sorts of interesting ASP.NET tricks and tools. You'll quickly see how ASP.NET 2.0 is designed to ensure a significant reduction in the amount of code you have to write--and, in turn, to make your life easier. What you will learn from this book Why Visual Web Developer is an ideal environment for building feature-rich ASP.NET 2.0 applications with C# How to secure web sites, providing login functionality and role-based access to content Useful techniques for safely updating data, using ASP.NET 2.0's built-in data handling capabilities How centralized site design can be easily achieved How to add e-commerce

functionality to a site Methods for enhancing an application's performance Who this book is for This book is for anyone new to web programming who wants to program dynamic, feature-rich web applications in ASP.NET 2.0. It will also be ideal for programmers seeking to upgrade their ASP 3 knowledge to ASP.NET, or programmers from non-Microsoft web disciplines who need to learn ASP.NET 2.0. Wrox Beginning guides are crafted to make learning programming languages and technologies easier than you think, providing a structured, tutorial format that will guide you through all the techniques involved.

Uses the popular Problem;Design;Solution format to help readers, especially those who know how to code specific ASP.NET features, learn to "put it all together" into a complete Web application Emphasizes n-tier ASP.NET Web application architectural design, something intermediate and advanced ASP.NET developers need and can't find anywhere else Current edition is the most popular and discussed book in the p2p.wrox.com reader discussion forums Covers registration and membership system, user-selectable themes, content management systems, polls, mailing lists,

forums, e-commerce stores, shopping carts, order management with real-time credit-card processing, localization, and other site features Developers also learn to handle master pages, themes, profiles, Web parts, server-side UI controls, compilation, deployment, instrumentation, error handling and logging, data access with ADO.NET and LINQ, ASP.NET AJAX, and much more

Take Web Application Programming to a Whole New Level Microsoft's .NET Framework means enormous changes for Web programming. Using Visual Studio's ASP.NET and VB.NET, and a host of established and up-and-coming Internet technologies, you can build cleaner, more powerful Web applications, and you can do it more quickly than ever before. Mastering ASP.NET with VB.NET is packed with the vital information you need to get started and build the skills to develop the new generation of dynamic, easy-to-maintain web sites. Coverage includes: \* Using HTML and CSS effectively \* Creating code-behind classes \* Making effective use of intrinsic objects \* Handling files \* Sending email \* Writing a Windows service \* Communicat-

ing with other Web Forms \* Communicating with databases \* Using XML namespace objects \* Performing transforms with XSLT and XHTML \* Creating user controls \* Creating custom controls \* Writing dynamic client-side code \* Using DHTML appropriately \* Creating Web Services \* Writing applications that use Web Services

Rethink the way you plan, design, and build Web applications—with expert guidance from Web development luminary Dino Esposito. Whether giving legacy sites a much-needed tune-up—or architecting rich Internet applications from the ground up—you'll learn pragmatic approaches to AJAX development that you can employ today. Discover how to: Delve into the mechanics and design goals of partial rendering—such as improving page-refresh speed Use AJAX-enabled server controls to bring desktop-like functionality to Web solutions Apply design patterns to common Web development issues, including client-side data binding Manipulate JavaScript more easily using the jQuery and Microsoft AJAX libraries Examine the interoperability and security models in Microsoft Silverlight Weigh the tradeoffs when architecting Web applications for richness (Silverlight)



vs. reach (AJAX)—and deliver the right solution for your audience

If you know the basics of C# and HTML/CSS, you're ready to learn how to build ASP.NET Core MVC web apps the way the professionals do. This book covers all the essentials: the MVC pattern, Bootstrap for responsive design, routing, Razor views, model binding, data validation, EF (Entity Framework) Core for database handling, dependency injection, xUnit and Moq for unit testing, Identity for authentication, and more. It gets you going right away with a subset of basic skills, then builds on those skills so you'll soon be developing real-world web apps. Along the way, you get dozens of practical coding examples that help you apply what you've just learned and show how all the parts work together. And when you're done, this book does double duty as the best on-the-job reference that money can buy.

Provides information on programming Web applications using ASP.NET 2.0, covering such topics as site design, security, styling, Web server architecture, writing data, code, e-commerce, and exception handling.

Design, build and deploy robust web applications using ASP.NET 6, Angular 13, and Entity Framework Core Key FeaturesThe most up-to-date book that covers cutting-edge features released in ASP.NET Core 6 and Angular 13Create a production-ready Single-Page Application (SPA) or Progressive Web Application (PWA)Adopt a full-stack approach to handle data management, API documentation, Web APIs, end-to-end testing, security, and deployment-Book Description Every full-stack ninja needs the tools to operate on front-end and back-end application development. This web app development book takes a hands-on, project-based approach to provide you with all the tools and techniques that web developers need to create, debug, and deploy efficient web applications using ASP.NET Core and Angular. The fifth edition has been updated to cover advanced topics such as Minimal APIs, Web APIs with GraphQL, real-time updates with SignalR, and new features in .NET 6 and Angular 13. You begin by building a data model with Entity Framework Core, alongside utilizing the Entity Core Fluent API and EntityTypeConfiguration class. You'll learn how to fetch and display data and

handle user input with Angular reactive forms and front-end and back-end validators for maximum effect. Later, you will perform advanced debugging and explore the unit testing features provided by xUnit.net (.NET 6) and Jasmine, as well as Karma for Angular. After adding authentication and authorization to your apps, you will explore progressive web applications, learning about their technical requirements, testing processes, and how to convert a standard web application to a PWA. By the end of this web development book, you will understand how to tie together the front-end and back-end to build and deploy secure and robust web applications. What you will learnUse the new Visual Studio Standalone TypeScript Angular templateImplement and consume a Web API interface with ASP.NET CoreSet up an SQL database server using a local instance or a cloud datastorePerform C# and TypeScript debugging using Visual Studio 2022Create TDD and BDD unit tests using xUnit, Jasmine, and KarmaPerform DBMS structured logging using providers such as SeriLogDeploy web apps to Azure App Service using IIS, Kestrel, and NGINXLearn to develop fast and flexible Web APIs using

GraphQLAdd real-time capabilities to Angular apps with ASP.NET Core SignalRWho this book is for This book is for experienced ASP.NET developers who already possess some familiarity with ASP.NET Core and Angular and are looking to learn how to use them effectively together. The fully documented code samples (also available on GitHub) and the step-by-step implementation tutorials make this book easy to follow.

Professional developers will produce leaner applications for the ASP.NET Core platform using the guidance in this best-selling book, now in its 9th edition and updated for ASP.NET Core for .NET 6. It contains detailed explanations of the ASP.NET Core platform and the application frameworks it supports. This cornerstone guide puts ASP.NET Core for .NET 6 into context and dives deep into the tools and techniques required to build modern, extensible web applications. New features and capabilities such as MVC, Razor Pages, Blazor Server, and Blazor WebAssembly are covered, along with demonstrations of how they are applied. ASP.NET Core for .NET 6 is the latest evolution of Microsoft's ASP.NET web platform and provides a

"host-agnostic" framework and a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility. Author Adam Freeman has thoroughly revised this market-leading book and explains how to get the most from ASP.NET Core for .NET 6. He starts with the nuts-and-bolts topics, teaching you about middleware components, built-in services, request model binding, and more. As you gain knowledge and confidence, he introduces increasingly more complex topics and advanced features, including endpoint routing and dependency injection. He goes 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 for .NET 6 release and broadens the focus to include all of the ASP.NET Core platform. You will appreciate the fully worked case study of a functioning ASP.NET Core application that you can use as a template for your own projects. Source code for this book can be found at <https://github.com/Apress/pro-asp.net-core>. -6. What You Will Learn Explore the entire ASP.NET Core platform Apply the new AS-

P.NET Core for .NET 6 features in your developer environment See how to create RESTful web services, web applications, and client-side applications Build on your existing knowledge to get up and running with new programming models quickly and effectively Who This Book Is For Web developers with a basic knowledge of web development and C# who want to incorporate the latest improvements and functionality in ASP.NET Core for .NET 6 into their own projects.

Building upon the success of best-sellers The Clean Coder and Clean Code, legendary software craftsman Robert C. "Uncle Bob" Martin shows how to bring greater professionalism and discipline to application architecture and design. As with his other books, Martin's Clean Architecture doesn't merely present multiple choices and options, and say "use your best judgment": it tells you what choices to make, and why those choices are critical to your success. Martin offers direct, is essential reading for every software architect, systems analyst, system designer, and software manager-- and for any programmer who aspires to these roles or is impacted by their work.

What is this book about? ASP.NET Website Programming shows you how to build an interactive website from design to deployment. Packed with solutions to website programming problems, this book will have you building well-engineered, extendable ASP.NET websites quickly and easily. What does this book cover? In this book, you will learn how to Establish a solid, scalable website foundation Provide flexible user accounts integrating with ASP.NET's built-in security Create message forums that enable formatted messages but defend against cross-site scripting Generate revenue from advertising Build a web interface for uploading, downloading, editing, and managing the files on your site Add opinion polls, email newsletters, and news management Deploy the finished site on a live server Build websites using good, n-tier coding techniques The site we build is modular. You can slot the modules into your own website, modify them, or use them as examples of particular ASP.NET techniques. Who is this book for? This book is for developers who Use ASP.NET and C# Use Visual Studio .NET Professional or above, or Visual C# .NET Standard Want to build content-based websites

Imagine the boost in business if you can build large, rich web applications with little code and built-in Windows authentication. With this book, you can gain skills to develop real-world applications with ASP.NET Core 2. Key Features Adopts the application-centric approach to explain core concepts Covers industry-best practices to build flexible, robust applications Shows how to enhance your applications by adding more functionalities Book Description The book sets the stage with an introduction to web applications and helps you build an understanding of the tried-and-true MVC architecture. You learn all about views, from what is the Razor view engine to tagging helpers. You gain insight into what models are, how to bind them, and how to migrate database using the correct model. As you get comfortable with the world of ASP.NET, you learn about validation and routing. You also learn the advanced concepts, such as designing Rest Buy (a RESTful shopping cart application), creating entities for it, and creating EF context and migrations. By the time you are done reading the book, you will be able to optimally use ASP.NET to develop, unit test, and deploy applications like a pro.

What you will learn Work with basic programming constructs using the Razor view engine Use flexibility and data compartmentalization of ViewModel Build a custom route for ASP.NET MVC applications for SEO Optimize applications with performance analysis and improvement steps Improve application performance, security, and data access to optimize the overall development process Deploy an ASP.NET MVC application in a non-Windows environment Who this book is for If you are looking to build web applications using ASP.NET Core or you want to become a pro in building web applications using the Microsoft technology, this is the ideal book for you. Prior exposure and understanding of C#, JavaScript, HTML, and CSS syntax is assumed.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through four complete sprints, this book takes you through every step needed to build brand new cross-platform web apps with ASP.NET Core, and make them available on the Internet. You won't just master Microsoft's revolutionary open source AS-

P.NET Core technology: you'll learn how to integrate the immense power of MVC, Docker, Azure Web Apps, Visual Studio and Visual Studio Code, C#, JavaScript, TypeScript, and Entity Framework. Working through the authors' carefully designed sprints, you'll start with a blank canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more. Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before.

Learn how to create the basic, dynamic, and advanced ASP.NET pages in C# Packed with tips, tricks, and workarounds, this book covers every aspect of developing a Web application for the enterprise using ASP.NET and C#. Written by Microsoft insiders, it shows readers how to create the basic, dynamic, and advanced ASP.NET pages in Microsoft's new C# programming language, and explains how to interact with the database using ADO.NET. The authors review how to transport and display data on the Internet or an Intranet using XML, objects, and Web services.

They also explain how to implement security with authentication, integrate important e-commerce issues, and optimize the ASP.NET Web application for optimal performance. Companion Web site features complete source code samples for the applications developed and explained in the book. Microsoft Technologies .NET Platform: The next big overhaul to Microsoft's technologies that will bring enterprise distributed computing to the next level by fully integrating the Internet into the development platform. This will allow interaction between any machine, on any platform, and on any device. Visual Basic.NET: The update to this popular visual programming language will offer greater Web functionality, more sophisticated object-oriented language features, links to Microsoft's new common runtime, and a new interface. ASP.NET: A programming framework (formerly known as Active Server Pages) for building powerful Web-based enterprise applications; can be programmed using VB.NET or C#. C#: Microsoft's new truly object-oriented programming language that builds on the strengths of C++ and the ease of Visual Basic; promises to give Sun's Java a run for its money.

The all-new approach for experienced ASP.NET professionals! ASP.NET is Microsoft's technology for building dynamically generated web pages from database content. Originally introduced in 2002, ASP.NET has undergone many changes in multiple versions and iterations as developers have gained a decade of experience with this popular technology. With that decade of experience, this edition of the book presents a fresh, new overhauled approach. A new focus on how to build ASP.NET sites and applications relying on field-tested reliable methods Integration of "One ASP.NET" philosophy treating ASP.NET Web Forms and ASP.NET MVC as equal tools each with their proper time and place Coverage of hot new ASP.NET 4.5 additions such as the Web API, Websockets and HTML5 & CSS3 use in layout but only to the extent that the tools themselves are practical and useful for working ASP.NET developers Professional ASP.NET 4.5 in C# and VB is an essential tool for programmers who need to be productive and build reliably performing sites with the latest ASP.NET Framework and Visual Studio.

Build your ASP.NET 4.5.1 skills with real--

worldinstruction In this comprehensive guide to getting started with ASP.NET 4.5.1, best-selling author Imar Spaanjaars provides a firm foundation for coders new to ASP.NET and key insights for those not yet familiar with the important updates in the 4.5.1 release. Readers learn how to build full-featured ASP.NET websites using Visual Studio Express 2013 for Web, Microsoft's free development tool for ASP.NET web applications. Beginning ASP.NET 4.5.1 guides you through the process of creating a fully functional, database-driven website, from creation of the most basic site structure all the way down to the successful deployment of the website to a production environment. Beginning ASP.NET 4.5.1: in C# and VB: Explains how to get started with ASP.NET 4.5.1, including an introduction to Microsoft's Visual Studio Express 2013 for Web Features helpful examples for designing websites with CSS and HTML and how to overcome common formatting problems Shares techniques for managing server controls in ASP.NET, including standard controls, HTML controls, and data controls Provides real-world tips for creating consistent page layout throughout your websites Covers practical

cal functionality issues like validating user input, sending e-mail from your website, and processing data at the server Details what the ASP.NET state engine is and why it is important Shows how to access and modify data in a SQL Server database Includes coverage of jQuery, LINQ, and the Entity Framework Explores measures to take for optimal security Learn how to build web applications efficiently using ASP.NET Core 5 with the C# programming language and related frameworks Key Features Build web apps and services and cross-platform applications using .NET and C# Understand different web programming concepts with the help of real-world examples Explore the new features and APIs in ASP.NET Core 5, EF Core, Visual Studio, and Blazor Book Description ASP.NET Core 5 for Beginners is a comprehensive introduction for those who are new to the framework. This condensed guide takes a practical and engaging approach to cover everything that you need to know to start using ASP.NET Core for building cloud-ready, modern web applications. The book starts with a brief introduction to the ASP.NET Core framework and highlights the new features in its latest re-

lease, ASP.NET Core 5. It then covers the improvements in cross-platform support, the view engines that will help you to understand web development, and the new frontend technologies available with Blazor for building interactive web UIs. As you advance, you'll learn the fundamentals of the different frameworks and capabilities that ship with ASP.NET Core. You'll also get to grips with securing web apps with identity implementation, unit testing, and the latest in containers and cloud-native to deploy them to AWS and Microsoft Azure. Throughout the book, you'll find clear and concise code samples that illustrate each concept along with the strategies and techniques that will help to develop scalable and robust web apps. By the end of this book, you'll have learned how to leverage ASP.NET Core 5 to build and deploy dynamic websites and services in a variety of real-world scenarios. What you will learn Explore the new features and APIs introduced in ASP.NET Core 5 and Blazor Put basic ASP.NET Core 5 concepts into practice with the help of clear and simple samples Work with Entity Framework Core and its different workflows to implement your application's data access Discover the differ-

ent web frameworks that ASP.NET Core 5 offers for building web apps. Get to grips with the basics of building RESTful web APIs to work with real data. Deploy your web apps in AWS, Azure, and Docker containers. Work with SignalR to add real-time notifications to your app. Who this book is for: This book is for developers who want to learn how to develop web-based applications using the ASP.NET Core framework. Familiarity with the C# language and a basic understanding of HTML and CSS is required to get the most out of this book.

Learn how web applications can be built efficiently using ASP.NET Core 2.0 and related frameworks. About This Book: Get to grips with the new features and APIs introduced in ASP.NET Core 2.0. Leverage the MVC framework and Entity Framework Core 2 to build efficient applications. Learn to deploy your web applications in new environments such as the cloud and Docker. Who This Book Is For: This book is for developers who would like to build modern web applications with ASP.NET Core 2.0. No prior knowledge of ASP.NET or .NET Core is required. However, basic programming knowledge is assumed. Additionally, previous Visual Studio experience will be help-

ful but is not required, since detailed instructions will guide through the samples of the book. This book can also help people, who work in infrastructure engineering and operations, to monitor and diagnose problems during the runtime of ASP.NET Core 2.0 web applications. What You Will Learn: Set up your development environment using Visual Studio 2017 and Visual Studio Code. Create a fully automated continuous delivery pipeline using Visual Studio Team Services. Get to know the basic and advanced concepts of ASP.NET Core 2.0 with detailed examples. Build an MVC web application and use Entity Framework Core 2 to access data. Add Web APIs to your web applications using RPC, REST, and HATEOAS. Authenticate and authorize users with built-in ASP.NET Core 2.0 features. Use Azure, Amazon Web Services, and Docker to deploy and monitor your applications. In Detail: The ability to develop web applications that are highly efficient but also easy to maintain has become imperative to many businesses. ASP.NET Core 2.0 is an open source framework from Microsoft, which makes it easy to build cross-platform web applications that are modern and dynamic. This book will

take you through all of the essential concepts in ASP.NET Core 2.0, so you can learn how to build powerful web applications. The book starts with a brief introduction to the ASP.NET Core framework and the improvements made in the latest release, ASP.NET Core 2.0. You will then build, test, and debug your first web application very quickly. Once you understand the basic structure of ASP.NET Core 2.0 web applications, you'll dive deeper into more complex concepts and scenarios. Moving on, we'll explain how to take advantage of widely used frameworks such as Model View Controller and Entity Framework Core 2 and you'll learn how to secure your applications. Finally, we'll s...

Building Single Page App using ASP.NET Core and Angular is not at all meant for freshers or for those who just started programming. This Book covers tons of client-server side technologies. For example: ASP.NET Core, Entity Framework Core, WebAPI, Repository Pattern, Unit of Work Pattern, Angular, Responsive design principles, HTML 5, Solid Principles, Design Patterns, etc. to name a few. Now to illustrate each and every concept right from the scratch is fairly impossible as it kills the



purpose of writing this book. This book is for my readers who regularly ask me to write something combining all these principles. There are tons of developers and professionals around the world who know these concepts in bits and pieces but don't know how to connect the dots to build an application. This book is entirely written around industry & coding standard, design principles. Hence, if you are fresher or just started your job, I would recommend to understand basics first and then refer this book. Otherwise, this will appear overwhelming at the beginning. From the second chapter, you will find questions section at the end of every chapter. If you are following this book precisely, you should be able to answer these questions on your own. These are project specific questions which are generally asked in any technical interviews.

CONTENTS Chapter 1: Getting Started Chapter 2: Creating Solution From The Blank Slate Chapter 3: Creating Data Context Chapter 4: Implementing Web API Chapter 5: Getting Started with Angular Chapter 6: Deeper into Angular Chapter 7: Adding More Features Using Angular Chapter 8: Adding More Features to the App Chapter 9: Authentication & Authorisa-

tion Chapter 10: Introduction to Azure and CosmosDb

Learn how to build web applications from three Microsoft MVPs. After building the data application layer using Entity Framework Core and a RESTful service using ASP.NET Core, you will then build the client side web application three ways: first, using ASP.NET Core, then using Angular 2, and, finally, using React. You will be able to compare and contrast these UI frameworks and select the best one for your needs. .NET Core is a complete rewrite of the popular .NET and its related frameworks. While many concepts are similar between .NET Core and the .NET 4.6 framework, there are revolutionary changes as well, including updates to Entity Framework Core and ASP.NET Core. The first section of this book covers the three main parts of building applications with C#: Entity Framework, ASP.NET Core Services, and ASP.NET Core Web Applications. There is also an explosion in popularity of JavaScript frameworks for client side development, and the authors cover two of the most popular UI frameworks. Start with TypeScript for developing clean JavaScript,

along with a client side build tool such as Gulp, Grunt, and WebPack. Using the same data access layer and RESTful service from the .NET Core application, you can rebuild the UI using Angular 2. Then, repeat the process using React, for a true comparison of building client side applications using ASP.NET Core, Angular 2, and React. What You'll Learn Understand the fundamentals of .NET Core and what that means to the traditional .NET developer Build a data access layer with Entity Framework Core, a RESTful service with ASP.NET Core MVC, and a website with ASP.NET Core MVC and Bootstrap Automate many build tasks with client side build utilities Who This Book Is For Intermediate to advanced .NET developers

Provides information on using ASP.NET MVC 4 to build server-side Web applications.

Learn, PHP, Or ASP.NET: Application - Website / Asp.Net Software, Development In this broad manual for starting with ASP.NET 4.5.1, top-of-the-line maker Imar Spaanjaars gives a firm foundation to coders new to ASP.NET and key pieces of information for those not yet familiar with the critical updates in the 4.5.1 con-

veyance. Perusers sort out some way to create full-included ASP.NET destinations using Visual Studio Express for Web, Microsoft's free improvement mechanical assembly for ASP.NET web applications. Beginning ASP.NET 4.5.1 associates you through the way toward making a totally utilitarian, database-driven website, from the development of the most fundamental page structure directly down to the productive sending of the webpage to a creative environment. Microsoft ASP.NET Tutorial for Beginners Pro ASP.NET Core 3, Using MVC, Blazor Develop Cloud-Ready Web Applications Customizing ASP.NET Core 5.0, web Turn the right screws in ASP.NET Core Programming ASP.NET Core, development ASP.NET Core 5 for Beginners, Website Active Server Pages, or ASP, is a Microsoft technology that allows developers to create, deliver and deploy interactive Web applications.

Design and develop an ASP.NET Core web application using .NET Core 3.0. This book shows you how to publish a web application to a web server and connect the published web application to a production database. Creating ASP.NET Core Web Ap-

plications starts by setting up the Visual Studio project where you will learn about Razor pages, Entities, and creating a data service. You will create models along with methods to use a query string and handle bad requests. Modifying data with Tag helpers is discussed as well as installation of Entity Framework, working with database migrations, and implementing a data access service. You will learn how to use layout pages and sections with Partial Views, `_ViewImports`, and `_ViewStart` files. You also will create custom middleware and log application events. You will be able to deploy the web application as well as connect it to a SQL Server database. What You Will Learn Work with models Modify data Work with EF Core and SQL Server Work with Razor pages and Partial Views Use separate scripts for production vs development Trace client-side errors using Chrome Developer tools Create cascading style sheets (CSS) with Sassy CSS (SCSS) Explore middleware Deploy your web application to IIS Who This Book Is For Software developers on the .NET stack who want to create ASP.NET Core web applications

Now in its 8th edition, Pro ASP.NET Core

has been thoroughly updated for ASP.NET Core 3 and online for ASP.NET Core 5 and .NET 5.0. This comprehensive, full-color guide is the only book you need to learn ASP.NET Core development. Professional developers get ready to produce leaner applications for the ASP.NET Core platform. This edition puts ASP.NET Core 3 into context, and takes a deep dive into the tools and techniques required to build modern, extensible web applications. New features and capabilities such as MVC 3, Razor Pages, Blazor Server, and Blazor WebAssembly are covered, along with demonstrations of how they can be applied in practice. Following the same popular format and style found in previous editions, author Adam Freeman explains how to get the most out of ASP.NET Core 3. Starting with the nuts-and-bolts topics, he teaches readers about middleware components, built-in services, request model binding, and more. Moving along, he introduces increasingly more complex topics and advanced features, including endpoint routing and dependency injection. Written for professionals wanting to incorporate the latest functionality of ASP.NET Core 3 into their projects, this book also serves as a

complete reference on ASP.NET Core. Beginners with some background in Microsoft web development will also greatly benefit from the in-depth coverage provided throughout. What You Will Learn: Build a solid foundation and skill set for working with the entire ASP.NET Core platform Apply ASP.NET Core 3 and ASP.NET Core 5 features in your developer environment; plentiful reusable templates See how to create RESTful web services, web applications, and client-side applications Leverage existing knowledge to efficiently get up and running with new programming models Adam Freeman is an experienced IT professional who has held senior positions in a range of companies, most recently serving as chief technology officer and chief operating officer of a global bank. Now retired, he spends his time writing and long-distance running. "The Rolls-Royce of ASP.NET books, (or if you're American, the Cadillac). Very thorough!" Les Jackson, MCS D, DotNet Playbook "The author's instruction is direct, easy to understand and supplemented with clear code examples... Whether you are a beginner learning ASP.NET Core 3.1 app development, or an experienced professional ready to master ad-

vanced concepts, I consider this book a 'must have' for you!" Jeremy Likness, Senior Program Manager, Microsoft "...the best single resource for teaching MVC web apps using ASP.NET." Charles Carter, MSCS, MSwE, JD, Cloud Application Development Instructor, Microsoft Software and Systems Academy A guide to ASP.NET 2.0 covers such topics as writing and reading user cookies, displaying data in GridView, formatting the CreateUser Wizard, using nesting master pages, and building a Web service. Create fast, scalable, and high-performance applications with C# and ASP.NET Core About This Book Get first-principle coverage of the latest ASP.NET Core MVC Find out how to bring together the capabilities and features of both Angular 2 and ASP.NET Core Discover common areas you might encounter performance problems with and areas you don't need to worry about Who This Book Is For This book is for developers who want to learn to build web applications using ASP.NET Core, those who want to make a career building web applications using Microsoft technology, and those who are working on other web frameworks and want to learn ASP.NET

Core. What You Will Learn Get to know the concepts of ASP.NET MVC Create a Controller with action methods Build a view using several features of the Razor View engine Construct a Model for ASP.NET Core MVC application Find out how the features of ASP.NET Core and Angular 2 perfectly complement each other Handle requests and actions using server-side and client-side Routing Create a Data Model using Entity Framework Core Learn how to use Angular 2 components and master directives Improve performance at the network level and I/O level, and how to optimize the application as a whole Monitor performance as part of Continuous Integration and regression testing In Detail ASP.NET Core is the new, open source, and cross-platform, web-application framework from Microsoft. ASP.NET Core MVC helps you build robust web applications using the Model-View-Controller design. This guide will help you in building applications that can be deployed on non-Windows platforms such as Linux. Starting with an overview of the MVC pattern, you will quickly dive into the aspects that you need to know to get started with ASP.NET. You will learn about the core architecture of model, view, and con-

trol. Integrating your application with Bootstrap, validating user input, interacting with databases, and deploying your application are some of the things that you will learn to execute with this fast-paced guide. You will test your knowledge as you build a fully working sample application using the skills you've learned throughout the book. Moving forward, this guide will teach you to combine the impressive capabilities of ASP.NET Core and Angular 2. Not only will you learn how Angular 2 can complement your .NET skills and toolkit, you'll also learn everything you need to build a complete, dynamic single-page application. Find out how to get your data model in place and manage an API, before styling and designing your frontend for an exceptional user experience. You will find out how to optimize your application for SEO, identify and secure vulnerabilities, and how to successfully deploy and maintain your application. From here, you will delve into the latest frameworks and software design patterns to improve your application performance. The course offers premium, highly practical content on the recently released ASP.NET Core, and includes material from the following Packt books: Learn-

ing ASP.NET Core MVC Programming, ASP.NET Core and Angular 2, and ASP.NET Core 1.0 High Performance. Style and approach This learning path takes a first-principles approach to help you understand and implement ASP.NET MVC solutions.

Simplified development of cross-platform applications by learning VS Code KEY FEATURES ● Covers sophisticated to simple web apps and webUIs development on VS Code with debugging. ● In-depth experimentation of VS Code including Machine Learning, NodeJS API and customized extensions. ● Provides refresher on popular tools like EF Core, Angular, Xamarin.Forms and Blazor. DESCRIPTION This book explores VS Code's core features, including multi-language IDE, rapid programming, and innovative front-end development, to show readers how to design and debug modern online and cloud applications. You will learn how to build native apps, spend less time working with the platform, and focus more on the creative aspects of generating a smart UI. While you learn and practise on VS Code, you build solid grounds on robust server-side programming. You will learn how to use VS Code to develop

your javascript, typescript, nodejs, or angular app more quickly and easily. Not only an application development environment, but VS Code also enables you to create microservices, extensions, and cloud applications. Not only can you construct applications with VS Code, but you can also develop microservices, extensions, and cloud applications. Throughout the book, you get trained on Entity Framework Core, Razor, Xamarin.Forms and numerous APIs. This book not only prepares you to design multi-platform applications or work with Visual Studio Code, but it also prepares you to be a great developer who can alter the code, debug issues, and manage the many versions on your own. WHAT YOU WILL LEARN ● Engage Razor and ASP.NET Core to build dynamic web apps. ● Get a practical edge with Xamarin.Forms to experience the native development. ● Explore Entity Framework Core for building data-rich applications. ● Create a custom Visual Studio code extension for your application. ● Use a variety of APIs, such as NodeJS and Python, in your implementations. WHO THIS BOOK IS FOR This book caters to application developers and web developers who want to develop multi-platform appli-

cations and authentic practice of VS Code environment. You are not required to have any programming experience, though some understanding of application development may help speed up the learnings.

TABLE OF CONTENTS

1. Comparing Visual Studio Code to Visual Studio
2. Up and Running with VS Code
3. Building Web UIs with Blazor
4. Building Websites with ASP.NET Core Razor Pages
5. Building Cross-Platform Mobile Apps with Xamarin.Forms
6. Building Web-Based Apps with Angular
7. Introducing Entity Framework Core
8. Exploring the Database Providers in Entity Framework Core
9. Building Multi-Platform Apps with Visual Studio Code
10. Building Services with Visual Studio Code
11. Application Deployment Options
12. Working with Python, Node.JS, and other APIs
13. Creating Custom Extensions in Visual Studio Code
14. Appendix A

Become a professional .NET developer by learning expert techniques for building enterprise-grade applications

Key Features

- Explore the advanced features of C# and .NET 5 to enhance your code and productivity
- Follow clear and easy instructions for building an end-to-end enterprise application
- Learn how to build scalable web appli-

cations and host them on the cloud

Book Description

.NET Core is one of the most popular programming platforms in the world for an increasingly large community of developers thanks to its excellent cross-platform support. This book will show you how to confidently use the features of .NET 5 with C# 9 to build robust enterprise applications. Throughout the book, you'll work on creating an enterprise app and adding a key component to the app with each chapter, before finally getting it ready for testing and deployment. You'll learn concepts relating to advanced data structures, the Entity Framework Core, parallel programming, and dependency injection. As you progress, you'll cover various authentication and authorization schemes provided by .NET Core to make your apps and APIs secure. Next, you'll build web apps using ASP.NET Core 5 and deploy them on the cloud while working with various cloud components using Azure. The book then shows you how to use the latest Microsoft Visual Studio 2019 and C# 9 to simplify developer tasks, and also explores tips and tricks in Visual Studio 2019 to improve your productivity. Later, you'll discover various testing techniques such as

unit testing and performance testing as well as different methods to deploy enterprise apps. By the end of this book, you'll be able to create enterprise apps using the powerful features of .NET 5 and deploy them on the cloud. What you will learn

Design enterprise apps by making the most of the latest features of .NET 5

Discover different layers of an app, such as the data layer, API layer, and web layer

Explore end-to-end architecture, implement an enterprise web app using .NET and C# 9, and deploy the app on Azure

Focus on the core concepts of web application development such as dependency injection, caching, logging, configuration, and authentication, and implement them in .NET 5

Integrate the new .NET 5 health and performance check APIs with your app

Understand how .NET 5 works and contribute to the .NET 5 platform

Who this book is for

If you are a developer, architect, or senior programmer who wants to leverage the features of .NET 5 and the C# language, as well as grasp essential techniques to build your skills, then this C# .NET 5 book is for you. Beginner to intermediate-level knowledge of the .NET framework and C# programming is required to understand the con-

cepts covered in this book more effectively.

Discusses how to use ASP in the .NET framework, events, controls, control details, Web forms, tracing and debugging,

validation, data binding, ADO, Web services, and security.