

# Programming ASPNET Building Web Applications And Services With ASPNET 20

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Programming ASP.NET 3.5 - Jesse Liberty 2008-10-23  
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.

Programming ASP.NET - Jesse Liberty 2005-10-26  
"Updated for ASP.NET 2.0, C# 2.0, and Visual Studio 2005"--Cover.

Developing Web Applications with ASP.NET and C# - Hank Meyne 2002-09-18

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.

Programming C# 5.0 - Ian Griffiths 2012-10-11

After a dozen years of incremental changes, C# has become one of the most versatile programming languages available. With this comprehensive guide, you'll learn just how powerful the combination of C# 5.0 and .NET 4.5 can be. Author Ian Griffiths guides you through C# 5.0 fundamentals and teaches you techniques for building web and desktop applications, including Windows 8-style apps. Completely rewritten for experienced programmers, this book provides many code examples to help you work with the nuts and bolts of C# code, such as generics, dynamic typing, and the new asynchronous programming features. You'll also get up to speed on XAML, ASP.NET, LINQ, and other .NET tools. Discover how C# supports fundamental coding features such as classes, other custom types, collections, and error handling Understand the differences between dynamic and static typing in C# Query and process diverse data sources such as in-memory object models, databases, and XML documents with LINQ Use .NET's multithreading features to exploit your computer's parallel processing capabilities Learn how the new asynchronous language features can help improve application responsiveness and scalability Use XAML to create Windows 8-style, phone, and classic desktop applications

Beginning ASP.NET 2.0 - Chris Hart 2005-11-08

This updated bestseller gets readers involved immediately with task-oriented examples that can help them build their own sites Each chapter is designed to complete a part of the sample Web site, introducing technology topics as required Makes extensive use of Microsoft's new visual ASP.NET development tool, showing readers how to save time and write less code to achieve more results faster The book provides examples in Visual Basic - the easiest language for beginning ASP.NET developers to learn

ASP.NET MVC 5 with Bootstrap and Knockout.js - Jamie Munro 2015-05-18

Bring dynamic server-side web content and responsive web design together to build websites that work and display well on any resolution, desktop or mobile. With this practical book, you'll learn how by combining the ASP.NET MVC server-side language, the Bootstrap front-end framework, and Knockout.js—the JavaScript implementation of the Model-View-ViewModel pattern. Author Jamie Munro introduces these and other related technologies by having you work with sophisticated web forms. At the end of the book, experienced and aspiring web developers alike will learn how to build a complete shopping cart that demonstrates how these technologies interact with each other in a sleek, dynamic, and

responsive web application. Build well-organized, easy-to-maintain web applications by letting ASP.NET MVC 5, Bootstrap, and Knockout.js do the heavy lifting. Use ASP.NET MVC 5 to build server-side web applications, interact with a database, and dynamically render HTML. Create responsive views with Bootstrap that render on a variety of modern devices; you may never code with CSS again. Add Knockout.js to enhance responsive web design with snappy client-side interactions driven by your server-side web application.

ASP.NET Core 6 and Angular - Valerio De Sanctis  
2022-04-06

Design, build and deploy robust web applications using ASP.NET 6, Angular 13, and Entity Framework Core. Key Features: The most up-to-date book that covers cutting-edge features released in ASP.NET Core 6 and Angular 13. Create 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 learn: Use the new Visual Studio Standalone TypeScript Angular template. Implement and consume a Web API interface with ASP.NET Core. Set up an SQL database server using a local instance or a cloud data store. Perform C# and TypeScript debugging using Visual Studio 2022. Create TDD and BDD unit tests using xUnit, Jasmine, and Karma. Perform DBMS structured logging using providers such as SeriLog. Deploy web apps to Azure App Service using IIS, Kestrel, and NGINX. Learn to develop fast and flexible Web APIs using GraphQL. Add real-time capabilities to Angular apps with ASP.NET Core SignalR. Who 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.

**DEVELOPING WEB APPLICATIONS USING ASP.NET AND ORACLE** - PRANAB KUMAR DAS GUPTA 2013-03-04

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.

ASP.NET Core 5 and Angular - Valerio De Sanctis  
2021-01-29

Build robust modern web applications using .NET 5, Entity Framework Core, and Angular 11. Key Features: Updated with the latest features and additions in ASP.NET Core 5 and Angular 11. Design, build, and deploy a Single Page Application or Progressive Web App. Adopt a full stack approach to handle data management, Web APIs, application design, testing, SEO, security, and deployment. Book Description: Learning full-stack development calls for knowledge of both front-end and back-end web development. ASP.NET Core 5 and Angular, Fourth Edition will enhance your ability to create, debug, and deploy efficient web applications using ASP.NET Core and Angular. This revised edition includes coverage of the Angular routing module, expanded discussion on the Angular CLI, and detailed instructions for deploying apps on Azure, as well as both Windows and Linux. Taking care to explain and challenge design choices made throughout the text, Valerio teaches you how to build 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 5) and Jasmine, as well as Karma for Angular. After adding authentication and authorization to your apps, you will explore progressive web applications (PWAs), learning about



their technical requirements, testing, and converting SWAs to PWAs. By the end of this 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 learn Implement a web API interface with ASP.NET Core and consume it with Angular using RxJS observables Set up an SQL database server using a local instance or a cloud data store Perform C# and TypeScript debugging using Visual Studio 2019 Create TDD and BDD unit tests using xUnit, Jasmine, and Karma Perform DBMS structured logging using third-party providers such as SeriLog Deploy web apps to Windows and Linux web servers, or Azure App Service, using IIS, Kestrel, and nginx Who 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.

Pro VB 2005 and the .NET 2.0 Platform - Andrew Troelsen 2006-11-22

\* Comprehensive, authoritative explanation of VB.NET 2005 and .NET 2.0 from a proven author who has a history of writing award-winning, successful books for professional developers. \* The broad scope of this book provides aspiring professionals with all the information that they need to become proficient in coding .NET 2.0 applications "overnight." \* Visual Basic has one of the largest user groups of any coding language. It is estimated that a large number of them will be following the next path to the latest edition of the language from previous versions (VB.NET 1.1 and VB6 especially). This book is well placed to meet their needs.

ASP.NET Core 5 for Beginners - Andreas Helland 2020-12-18

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 release, 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 different 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.

Programming ASP.NET MVC 4 - Jess Chadwick 2012-09-14 Get up and running with ASP.NET MVC 4, and learn how to build modern server-side web applications. This guide helps you understand how the framework performs, and shows you how to use various features to solve many real-world development scenarios you're likely to face. In the process, you'll learn how to work with HTML, JavaScript, the Entity Framework, and other web technologies. You'll start by learning core concepts such as the Model-View-Controller architectural pattern, and then work your way toward advanced topics. The authors demonstrate ASP.NET MVC 4 best practices and techniques by building a sample online auction site ("EBuy") throughout the book. Learn the similarities between ASP.NET MVC 4 and Web Forms Use Entity Framework to create and maintain an application database Create rich web applications, using jQuery for client-side development Incorporate AJAX techniques into your web applications Learn how to create and expose ASP.NET Web API services Deliver a rich and consistent experience for mobile devices Apply techniques for error handling, automated testing, and build automation Use various options to deploy your ASP.NET MVC 4 application Learning ASP.NET Core 3.0 - Second Edition - Kenneth Yamikani Fukizi 2019-12-27

A beginner's guide to building fully functioning web applications from scratch using the latest features of ASP.NET Core 3 and C# 8 Key Features Get to grips with the new features and APIs in ASP.NET Core 3, EF Core 3, and Blazor Create web APIs that integrate your applications with other systems and services Learn to deploy your web applications in new environments such as the cloud and Docker containers Book Description ASP.NET Core is an open source framework from Microsoft that makes it easy to build highly efficient and dynamic cross-platform web applications. Updated for the latest features of ASP.NET Core 3, this second edition will equip you with the skills you need to build powerful web applications. The book starts with an introduction to ASP.NET Core and its features, giving you a complete understanding of the framework. You will also learn how to set up your development environment with Visual Studio 2019 and build a fully functioning application from scratch. You'll then understand core concepts for building web applications such as Model View Controller (MVC), dependency injection, and WebSockets. As you advance, you'll discover how to use Entity Framework Core 3 to automate all database-related activities for your application. You will then build and document secure web APIs using security best practices to protect your web applications from threats and vulnerabilities. Finally, you will learn how to use Azure DevOps as a CI/CD tool to deploy and monitor your applications using Microsoft Azure, Amazon Web Services (AWS), and Docker. By the end of this book, you'll have the skills you need to develop efficient and robust web applications in ASP.NET Core 3. What you will learn Delve into basic and advanced ASP.NET Core 3 concepts with the help of examples Build an MVC web application and use Entity Framework Core 3 to access data Add web APIs to your web applications using RPC, REST, and HATEOAS Create a fully automated continuous integration and continuous delivery (CI/CD) pipeline using Azure DevOps Use Azure, Amazon Web Services, and Docker to deploy and monitor your applications Secure your web application from common attacks such as Cross-Site Scripting and SQL injection

Explore client-side development using C# Razor components Who this book is for This book is for developers who want to build modern web applications with ASP.NET Core. The book will also be helpful for anyone working in infrastructure engineering and operations to monitor and diagnose problems during the runtime of ASP.NET Core 3.0 web applications. Although no prior understanding of ASP.NET or .NET Core is required, basic C# programming knowledge is assumed.

**Programming Data-driven Web Applications with ASP.NET** - Donny Mack 2002

Active Server Pages, or ASP, is a Microsoft technology that allows developers to create, deliver and deploy interactive Web applications.

ASP.NET Core 3 and Angular 9 - Valerio De Sanctis 2020-02-14

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 bestselling 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 management, 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 Linux 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 implementation tutorials make this book easy-to-understand - even for beginners and developers who are just getting started.

**Programming ASP.NET AJAX** - Christian Wenz 2007-09-18 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.

*Hands-On RESTful Web Services with ASP.NET Core 3* - Samuele Resca 2019-12-27

Get up to speed with the latest features of C# 8, ASP.NET Core 3 and .NET Core 3.1 LTS to create robust and maintainable web services Key Features Apply design patterns and techniques to achieve a reactive, scalable web service Document your web services using the OpenAPI standard and test them using Postman Explore mechanisms to implement a secure web service using client-side SSL and token authentication Book Description In recent times, web services have evolved to play a prominent role in web development. Applications are now designed to be compatible with any device and platform, and web services help us keep their logic and UI separate. Given its simplicity and effectiveness in creating web services, the RESTful approach has gained popularity, and this book will help you build RESTful web services using ASP.NET Core. This REST book begins by introducing you to the basics of the REST philosophy, where you'll study the different stages of designing and implementing enterprise-grade RESTful web services. You'll also gain a thorough understanding of ASP.NET Core's middleware approach and learn how to customize it. The book will later guide you through improving API resilience, securing your service, and applying different design patterns and techniques to achieve a scalable web service. In addition to this, you'll learn advanced techniques for caching, monitoring, and logging, along with implementing unit and integration testing strategies. In later chapters, you will deploy your REST web services on Azure and document APIs using Swagger and external tools such as Postman. By the end of this book, you will have learned how to design RESTful web services confidently using ASP.NET Core with a focus on code testability and maintainability. What you will learn Gain a comprehensive working knowledge of ASP.NET Core Integrate third-party tools and frameworks to build maintainable and efficient services Implement patterns using dependency injection to reduce boilerplate code and improve flexibility Use ASP.NET Core's out-of-the-box tools to test your applications Use Docker to run your ASP.NET Core web service in an isolated and self-contained environment Secure your information using HTTPS



and token-based authentication Integrate multiple web services using resiliency patterns and messaging techniques Who this book is for This book is for anyone who wants to learn how to build RESTful web services with the ASP.NET Core framework to improve the scalability and performance of their applications. Basic knowledge of C# and .NET Core will help you make the best use of the code samples included in the book.

Beginning ASP.NET 2.0 - Chris Hart 2005-11-10

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.

Beginning Database Programming Using ASP.NET Core 3 - Bipin Joshi 2019-12-13

Hit the ground running with this book to quickly learn the fundamentals of HTML form processing, user authentication, and database CRUD (Create, Read, Update, and Delete) operations using the ASP.NET Core family of technologies. You will utilize cutting-edge and popular technology options from both the server side and client side to help you achieve your web application goals as quickly as possible. Developers who want to learn ASP.NET Core and complementary technologies are often overwhelmed by the large number of options involved in building modern web applications. This book introduces you to the most popular options so that you can confidently begin working on projects in no time. You will learn by example, building a sample application that demonstrates how the same application can be built using different options. This experiential approach will give you the basic skills and knowledge to understand how the options work together so that you can make an informed decision about the available choices, their trade-offs, and code level comparison. After reading this book, you will be able to choose your selected learning path. What You Will Learn Develop data entry forms in ASP.NET Core, complete with validations and processing Perform CRUD operations using server-side options: ASP.NET Core MVC, Razor Pages, Web APIs, and Blazor Perform CRUD operations using client-side options: jQuery and Angular Secure web applications using ASP.NET Core Identity, cookie authentication, and JWT authentication Use RDBMS and NoSQL data stores: SQL Server, Azure SQL Database, Azure Cosmos DB, and MongoDB for CRUD operations Deploy ASP.NET Core web applications to IIS and Azure App Service Who This Book Is For Developers who possess a basic understanding of ASP.NET and how web applications work. Some experience with Visual Studio 2017 or higher, C#, and JavaScript is helpful.

Learning C# - Jesse Liberty 2002

From bestselling author Liberty comes an entry-level book that presents this young programming language and the basics of object-oriented .NET programming.

Learning ASP.NET Core MVC Programming - Mugilan T. S. Ragupathi 2016-11-16

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, TDD-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.

Programming ASP.NET - Jesse Liberty 2005-10-26

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.

*Learning ASP.NET 2.0 with AJAX* - Jesse Liberty  
2007-11-15

With this book, web developers can build engaging and interactive sites and applications using Microsoft's latest web development tools -- ASP.NET 2.0 and the new ASP.NET AJAX framework. You learn to create applications that have all the great tricks you see on popular commercial web sites, such as order forms and the ability to interact with a database. And you can build pages that display information interactively without a page refresh. This straightforward tutorial explains how. *Learning ASP.NET 2.0 with AJAX* helps you master the concepts and techniques of Microsoft's tools with plenty of annotated examples, review quizzes, web construction exercises and chapter summaries, so you can practice new skills and test your understanding as you go. With it, you'll learn to: Master the fundamental skills of ASP.NET 2.0 to build professional quality web applications Integrate new Ajax tools and CSS with ASP.NET 2.0 for flashier and more interactive sites Build applications with minimal coding using Visual Studio or its free counterpart, Visual Web Developer Connect your site with a database so that users can retrieve, interact and save data Debug your application, deal with unexpected problems, and protect your site from malicious users Use the community-maintained ASP.NET AJAX Control Toolkit to extend the controls that come with ASP.NET AJAX Use personalization tools to give your site a customized look for each user Ideal for beginning web developers, or those who are new to ASP.NET, this book gets you involved with your own learning through hands-on lessons that are clear and to the point. You get the chance to try out new techniques on the spot. Want to join the world of modern web development? This book will get you started.

**Programming ASP.NET Core, Programming ASP.NET Core** - Dino Esposito 2018-05-10

The complete, pragmatic guide to building high-value solutions with ASP.NET Core *Programming ASP.NET Core* is the definitive guide to practical web-based application development with Microsoft's new ASP.NET Core framework. Microsoft MVP Dino Esposito introduces proven techniques and well-crafted example code for solving real problems with ASP.NET Core. Step by step, he guides you through using all key ASP.NET Core technologies, including MVC for HTML generation, .NET Core, EF Core, ASP.NET Identity, dependency injection, and much more. Esposito thoroughly covers ASP.NET Core's cross-platform capabilities and what's changed from older ASP.NET versions, but he doesn't stop there: he offers a complete learning path for every developer who wants to build production solutions, including mobile-specific solutions. Microsoft MVP Dino Esposito shows how to:

- Create new projects and understand their structure
- Set up and use the familiar MVC application model in ASP.NET Core
- Write controller class code to govern all stages of request processing
- Serve HTML from controllers, or directly via Razor Pages
- Master the Razor language for quickly defining the layout of HTML views
- Manage cross-cutting concerns such as global configuration data, error and exception handling, controller class design, and dependency injection
- Secure applications with user authentication and ASP.NET Core's policy-based user authorization API
- Design for efficient data access, and choose the right option for reading and writing data
- Build ASP.NET Core Web APIs that return JSON, XML, or other data
- Use data binding to programmatically update visual components with fresh information
- Build device-friendly web views for iOS and Android
- Explore the radically new ASP.NET Core runtime environment and Dependency Injection (DI) infrastructure

**Clean Architecture** - Robert C. Martin 2017-09-12  
Practical Software Architecture Solutions from the Legendary Robert C. Martin ("UncleBob") By applying

universal rules of software architecture, you can dramatically improve developer productivity throughout the life of any software system. Now, building upon the success of his best-selling books *Clean Code* and *The Clean Coder*, legendary software craftsman Robert C. Martin ("Uncle Bob") reveals those rules and helps you apply them. Martin's *Clean Architecture* doesn't merely present options. Drawing on over a half-century of experience in software environments of every imaginable type, Martin tells you what choices to make and why they are critical to your success. As you've come to expect from Uncle Bob, this book is packed with direct, no-nonsense solutions for the real challenges you'll face—the ones that will make or break your projects. Learn what software architects need to achieve—and core disciplines and practices for achieving it Master essential software design principles for addressing function, component separation, and data management See how programming paradigms impose discipline by restricting what developers can do Understand what's critically important and what's merely a "detail" Implement optimal, high-level structures for web, database, thick-client, console, and embedded applications Define appropriate boundaries and layers, and organize components and services See why designs and architectures go wrong, and how to prevent (or fix) these failures *Clean Architecture* is essential reading for every current or aspiring software architect, systems analyst, system designer, and software manager—and for every programmer who must execute someone else's designs. Register your product for convenient access to downloads, updates, and/or corrections as they become available.

**Beginning ASP.NET 2.0 with C#** - Chris Hart 2006-05-08  
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.

**C# 7.1 and .NET Core 2.0 – Modern Cross-Platform Development** - Mark J. Price 2017-11-30

*C# 7.1 and .NET Core 2.0 – Modern Cross-Platform Development, Third Edition* is a practical guide to creating powerful cross-platform applications with C# 7 and .NET Core 2.0. About This Book Build modern, cross-platform applications with .NET Core 2.0 Get up to speed with C#, and up to date with all the latest features of



C# 7.1 Start creating professional web applications with ASP.NET Core 2.0 Who This Book Is For This book is targeted towards readers who have some prior programming experience or have a science, technology, engineering, or mathematics (STEM) background, and want to gain a solid foundation with C# and to be introduced to the types of applications they could build and will work cross-platform on Windows, Linux, and macOS. What You Will Learn Build cross-platform applications using C# 7.1 and .NET Core 2.0 Explore ASP.NET Core 2.0 and learn how to create professional websites, services, and applications Improve your application's performance using multitasking Use Entity Framework Core and LINQ to query and manipulate data Master object-oriented programming with C# to increase code reuse and efficiency Familiarize yourself with cross-device app development using the Universal Windows Platform Protect and manage your files and data with encryption, streams, and serialization Get started with mobile app development using Xamarin.Forms Preview the nullable reference type feature of C# 8 In Detail C# 7.1 and .NET Core 2.0 – Modern Cross-Platform Development, Third Edition, is a practical guide to creating powerful cross-platform applications with C# 7.1 and .NET Core 2.0. It gives readers of any experience level a solid foundation in C# and .NET. The first part of the book runs you through the basics of C#, as well as debugging functions and object-oriented programming, before taking a quick tour through the latest features of C# 7.1 such as default literals, tuples, inferred tuple names, pattern matching, out variables, and more. After quickly taking you through C# and how .NET works, this book dives into the .NET Standard 2.0 class libraries, covering topics such as packaging and deploying your own libraries, and using common libraries for working with collections, performance, monitoring, serialization, files, databases, and encryption. The final section of the book demonstrates the major types of application that you can build and deploy cross-device and cross-platform. In this section, you'll learn about websites, web applications, web services, Universal Windows Platform (UWP) apps, and mobile apps. By the end of the book, you'll be armed with all the knowledge you need to build modern, cross-platform applications using C# and .NET. Style and approach This book takes a step-by-step approach and is filled with exciting projects and fascinating theory. It uses three high-impact sections to equip you with all the tools you'll need to build modern, cross-platform applications using C# and .NET Core 2.0.

Sams Teach Yourself C# Web Programming in 21 Days - Philip Syme 2002

Learn how to how to use C# for Internet programming with the hands-on techniques and clear explanations. This book discusses some C# features that allow rapid development of solutions such as garbage collection, simplified type declarations, and scalability support. The book explains key concepts in a simple and practical manner. Web Forms and Web Controls usher in an elegant way to make dynamic Web pages. The book covers these topics with how-to code examples and projects. One of the newest developments in Internet programming is the use of XML and the SOAP communication protocol. .NET Web Services harness these two technologies, and is covered in later sections of the book.

**Programming C#** - Jesse Liberty 2003

Designed specifically for developing applications on Microsoft's .NET platform, the innovative C# programming language is simple, type-safe, object- and component-oriented and Internet-savvy. In *Programming C#, Third Edition*, noted author Jesse Liberty gives experienced professionals the information they need to become productive quickly. Beginning with a rapid tour of basic C# language syntax, Part I introduces the keywords and concepts that make C# and .NET an effective environment

for building desktop and web-based applications, including: Classes and objects; Inheritance and polymorphism; Operator overloading; Structs and interfaces; Arrays, indexers, and collections; String handling and regular expressions; Exceptions and bug handling; Delegates and events. Part II teaches you how to use C# with three core application frameworks- ASP.NET, NET Windows Forms, and ADO.NET-to build typical desktop and Internet applications, including browser-oriented web applications and standards-based web services. Finally, in Part III, you'll learn how to tap the rich functionality of the .NET Framework to manage deployment with assemblies, work with metadata, marshal objects across process and machine boundaries, work with threads, handle data streams, and integrate with legacy Windows APIs and COM objects. All text and examples have been updated for Visual Studio .NET 2003 and the .NET Framework 1.1 SDK. Also new are extensive tips for java, C++, and VB6 programmers; revised chapters on delegates and events; and web applications and services.

**Murach's ASP. NET Core MVC** - Joel Murach 2020-01-07

If you know the basics of C#, you're ready to learn how to create web applications using Microsoft's powerful technology, ASP.NET Core MVC (Model-View-Controller). And there's no more practical way to do it than with this book. By the end of section 1...just 5 chapters...you'll be developing real-world web apps that follow the MVC pattern, using C# code for the model and controller classes...HTML, CSS, and Razor code for the user interface (the view)...and Bootstrap classes for responsive design so that your apps adapt well to all screen sizes. You'll also be able use the debugging tools in Visual Studio and your browser to test your apps thoroughly. In section 2, you'll build out that set of skills to create more complex controllers, work with Razor views, handle cookies and sessions, do model binding, validate data, and handle database data with EF (Entity Framework) Core. You'll also see how all these skills come together in a single application, with coverage of the "gotchas" that can occur and how to solve them. Finally, in section 3, you can pick up additional skills as you need them: use dependency injection to make your code easier to test; automate testing; create custom tag helpers and view components to reduce code duplication; control user access to a site with ASP.NET Core Identity; and use Visual Studio Code, an increasingly popular alternative to the Visual Studio IDE. All along the way, you'll get complete web apps that show you how each feature works in context (you can download these apps for free from the Murach website). You'll get chapter exercises that let you practice your new skills. And you'll get Murach's distinctive "paired-pages" format that presents each skill in a 2-page spread, full of examples, notes, and explanation...a format that developers praise because it saves training and reference time.

**Learning ASP.NET Core 2.0** - Jason De Oliveira 2017-12-14

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 helpful 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 show you how to deploy and monitor your applications using Azure, AWS, and Docker. After reading the book, you'll be able to develop efficient and robust web applications in ASP.NET Core 2.0 that have high levels of customer satisfaction and adoption. Style and approach Start an exciting journey to building high performance web applications using ASP.NET Core 2.0 and MVC

ASP.NET 2.0 Website Programming - Marco Bellinaso

2006-05-08

\* The unique Problem-Design-Solution approach shows Web developers how to integrate all the new functionality of ASP.NET 2.0 into a single real-world project that reflects problems and solutions they face daily \* Walks readers through the development of a complete ASP.NET 2.0 Web site that boasts most of the features a user can expect to find in an e-commerce site: photo galleries; opinion polls, forums, and newsletters; an e-commerce section with shopping cart; and order management functions \* The implementation of each feature demonstrates new functions introduced by ASP.NET 2.0, such as master pages, Web parts, theming, membership, personalization, and much more

Beginning ASP.NET 2.0 in C# 2005 - Matthew MacDonald

2006-11-22

\* Steers reader through the spectrum of ASP.NET web programming concepts. \* Developers and programmers can learn language and theory simultaneously. \* Professional ASP.NET developers and wannabes can master the core techniques to develop good coding practices to enhance their long-term skill set.

Professional ASP.NET 4 in C# and VB - Bill Evjen

2010-03-08

This book was written to introduce you to the features and capabilities that ASP.NET 4 offers, as well as to give you an explanation of the foundation that ASP.NET provides. We assume you have a general understanding of Web technologies, such as previous versions of ASP.NET, Active Server Pages 2.0/3.0, or JavaServer Pages. If you understand the basics of Web programming, you should not have much trouble following along with this book's content. If you are brand new to ASP.NET, be sure to check out *Beginning ASP.NET 4: In C# and VB* by Imar Spaanjaars (Wiley Publishing, Inc., 2010) to help you understand the basics. In addition to working with Web technologies, we also assume that you understand basic programming constructs, such as variables, For Each

loops, and object-oriented programming. You may also be wondering whether this book is for the Visual Basic developer or the C# developer. We are happy to say that it is for both! When the code differs substantially, this book provides examples in both VB and C#. This book explores the 4 release of ASP.NET. It covers each major new feature included in ASP.NET 4 in detail. The following list tells you something about the content of each chapter. Chapter 1, "Application and Page Frameworks." The first chapter covers the frameworks of ASP.NET applications as well as the structure and frameworks provided for single ASP.NET pages. This chapter shows you how to build ASP.NET applications using IIS or the built-in Web server that comes with Visual Studio 2010. This chapter also shows you the folders and files that are part of ASP.NET. It discusses ways to compile code and shows you how to perform cross-page posting. This chapter ends by showing you easy ways to deal with your classes from within Visual Studio 2010. Chapters 2, 3, and 4. These three chapters are grouped together because they all deal with server controls. This batch of chapters starts by examining the idea of the server control and its pivotal role in ASP.NET development. In addition to looking at the server control framework, these chapters delve into the plethora of server controls that are at your disposal for ASP.NET development projects. Chapter 2, "ASP.NET Server Controls and Client-Side Scripts," looks at the basics of working with server controls. Chapter 3, "ASP.NET Web Server Controls," covers the controls that have been part of the ASP.NET technology since its initial release and the controls that have been added in each of the ASP.NET releases. Chapter 4, "Validation Server Controls," describes a special group of server controls: those for validation. Chapter 5, "Working with Master Pages." Master pages provide a means of creating templated pages that enable you to work with the entire application, as opposed to single pages. This chapter examines the creation of these templates and how to apply them to your content pages throughout an ASP.NET application. Chapter 6, "Themes and Skins." The Cascading Style Sheet files you are allowed to use in ASP.NET 1.0/1.1 are simply not adequate in many regards, especially in the area of server controls. This chapter looks at how to deal with the styles that your applications require and shows you how to create a centrally managed look-and-feel for all the pages of your application by using themes and the skin files that are part of a theme. Chapter 7, "Data Binding." One of the more important tasks of ASP.NET is presenting data, and this chapter looks at the underlying capabilities that enable you to work with the data programmatically before issuing the data to a control. Chapter 8, "Data Management with ADO.NET." This chapter presents the ADO.NET data model provided by ASP.NET, which allows you to handle the retrieval, updating, and deleting of data quickly and logically. Chapter 9, "Querying with LINQ." The .NET Framework 4 includes a nice access model language called LINQ. LINQ is a set of extensions to the .NET Framework that encompass language-integrated query, set, and transform operations. This chapter introduces you to LINQ and how to effectively use this feature in your Web applications today. Chapter 10, "Working with XML and LINQ to XML." The .NET Framework and ASP.NET 4 have many capabilities built into their frameworks that enable you to easily extract, create, manipulate, and store XML. This chapter takes a close look at the XML technologies built into ASP.NET and the underlying .NET Framework. Chapter 11, "Introduction to the Provider Model." The provider model is built into ASP.NET to make the lives of developers so much easier and more productive than ever before. This chapter gives an overview of this provider model and how it is used throughout ASP.NET 4. Chapter 12, "Extending the Provider Model." After an introduction of the provider



model, this chapter looks at some of the ways to extend the provider model found in ASP.NET 4. This chapter also reviews a couple of sample extensions to the provider model. Chapter 13, "Site Navigation." Most developers do not simply develop single pages—they build applications. One of the application capabilities provided by ASP.NET 4 is the site navigation system covered in this chapter. Chapter 14, "Personalization." Developers are always looking for ways to store information pertinent to the end user. After it is stored, this personalization data has to be persisted for future visits or for grabbing other pages within the same application. The ASP.NET team developed a way to store this information—the ASP.NET personalization system. The great thing about this system is that you configure the entire behavior of the system from the web.config file. Chapter 15, "Membership and Role Management." This chapter covers the membership and role management system developed to simplify adding authentication and authorization to your ASP.NET applications. This chapter focuses on using the web.config file for controlling how these systems are applied, as well as on the server controls that work with the underlying systems. Chapter 16, "Portal Frameworks and Web Parts." This chapter explains Web Parts—a way of encapsulating pages into smaller and more manageable objects. Chapter 17, "HTML and CSS Design with ASP.NET." Visual Studio 2010 places a lot of focus on building a CSS-based Web. This chapter takes a close look at how you can effectively work with HTML and CSS design for your ASP.NET applications. Chapter 18, "ASP.NET AJAX." AJAX is an acronym for Asynchronous JavaScript and XML. In Web application development, it signifies the capability to build applications that make use of the XMLHttpRequest object. Visual Studio 2010 contains the ability to build AJAX-enabled ASP.NET applications from the default install of the IDE. This chapter takes a look at this way to build your applications. Chapter 19, "ASP.NET AJAX Control Toolkit." Along with the capabilities to build ASP.NET applications that make use of the AJAX technology, a series of controls is available to make the task rather simple. This chapter takes a good look at the ASP.NET AJAX Control Toolkit and how to use this toolkit with your applications today. Chapter 20, "Security." This chapter discusses security beyond the membership and role management features provided by ASP.NET 4. This chapter provides an in-depth look at the authentication and authorization mechanics inherent in the ASP.NET technology, as well as HTTP access types and impersonations. Chapter 21, "State Management." Because ASP.NET is a request-response-based technology, state management and the performance of requests and responses take on significant importance. This chapter introduces these two separate but important areas of ASP.NET development. Chapter 22, "Caching." Because of the request-response nature of ASP.NET, caching (storing previous generated results, images, and pages) on the server becomes rather important to the performance of your ASP.NET applications. This chapter looks at some of the advanced caching capabilities provided by ASP.NET, including the SQL cache invalidation feature which is part of ASP.NET 4. This chapter also takes a look at object caching and object caching extensibility. Chapter 23, "Debugging and Error Handling." This chapter tells you how to properly structure error handling within your applications. It also shows you how to use various debugging techniques to find errors that your applications might contain. Chapter 24, "File I/O and Streams." This chapter takes a close look at working with various file types and streams that might come into your ASP.NET applications. Chapter 25, "User and Server Controls." Not only can you use the plethora of server controls that come with ASP.NET, but you can also use the same framework these controls use and build your own. This chapter describes building your own server

controls and how to use them within your applications. Chapter 26, "Modules and Handlers." This chapter looks at two methods of manipulating the way ASP.NET processes HTTP requests: HttpModule and IHttpHandler. Each method provides a unique level of access to the underlying processing of ASP.NET, and each can be a powerful tool for creating Web applications. Chapter 27, "ASP.NET MVC." ASP.NET MVC is the latest major addition to ASP.NET and has generated a lot of excitement from the development community. ASP.NET MVC supplies you with the means to create ASP.NET using the Model-View-Controller models that many developers expect. ASP.NET MVC provides developers with the testability, flexibility, and maintainability in the applications they build. It is important to remember that ASP.NET MVC is not meant to be a replacement to the ASP.NET everyone knows and loves, but instead is simply a different way to construct your applications. Chapter 28, "Using Business Objects." Invariably, you are going to have components created with previous technologies that you do not want to rebuild but that you do want to integrate into new ASP.NET applications. If this is the case, the .NET Framework makes incorporating your previous COM components into your applications fairly simple and straightforward. This chapter also shows you how to build .NET components instead of turning to the previous COM component architecture. Chapter 29, "ADO.NET Entity Framework." The inclusion of the ADO.NET Entity Framework in ASP.NET makes mapping objects from the database to the objects within your code significantly simpler. Using Visual Studio 2010, you are able to visually design your entity data models and then very easily access these models from code allowing the ADO.NET Entity Framework to handle the connections and transactions to the underlying database. Chapter 30, "ASP.NET Dynamic Data." This feature in ASP.NET 4 allows you to quickly and easily put together a reporting and data entry application from your database. You are also able to take these same capabilities and incorporate them into a pre-existing application. Chapter 31, "Working with Services." This chapter reveals the ease not only of building XML Web services, but consuming them in an ASP.NET application. This chapter then ventures further by describing how to build XML Web services that utilize SOAP headers and how to consume this particular type of service. Another feature in ASP.NET, ADO.NET Data Services, allows you to create a RESTful service layer using an Entity Data Model. Using this capability, you can quickly set up a service layer that allows you to expose your content as AtomPub or JSON, which will allow the consumer to completely interact with the underlying database. Chapter 32, "Building Global Applications." ASP.NET provides an outstanding way to address the internationalization of Web applications. Changes to the API, the addition of capabilities to the server controls, and even Visual Studio itself equip you to do the extra work required to more easily bring your application to an international audience. This chapter looks at some of the important items to consider when building your Web applications for the world. Chapter 33, "Configuration." This chapter teaches you to modify the capabilities and behaviors of ASP.NET using the various configuration files at your disposal. Chapter 34, "Instrumentation." ASP.NET gives you greater capability to apply instrumentation techniques to your applications. The ASP.NET Framework includes performance counters, the capability to work with the Windows Event Tracing system, possibilities for application tracing (covered in Chapter 23 of this book), and the most exciting part of this discussion—a health monitoring system that allows you to log a number of different events over an application's lifetime. This chapter takes an in-depth look at this health monitoring system. Chapter 35, "Administration and Management." This chapter provides an overview of the GUI tools that

come with ASP.NET today that enable you to manage your Web applications easily and effectively. Chapter 36, "Packaging and Deploying ASP.NET Applications." So you have built an ASP.NET application—now what? This chapter takes the building process one step further and shows you how to package your ASP.NET applications for easy deployment. Many options are available for working with the installers and compilation model to change what you are actually giving your customers. Appendix A, "Migrating Older ASP.NET Projects." This appendix focuses on migrating ASP.NET 1.x, 2.0, or 3.5 applications to the 4 Framework. Appendix B, "ASP.NET Ultimate Tools." Based on Scott Hanselman's annual Tools pick blog posting, many of the tools here will expedite your development process and, in many cases, make you a better developer. Appendix C, "Silverlight 3 and ASP.NET." Silverlight is a means to build fluid applications using XAML. This technology enables developers with really rich vector-based applications. Appendix D, "Dynamic Types and Languages." As of the release of ASP.NET 4, you can now build your Web applications using IronRuby and IronPython. This appendix takes a quick look at using dynamic languages in building your Web applications. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

**C# 9 and .NET 5 – Modern Cross-Platform Development** - Mark J. Price 2020-11-10

Publisher's Note: Microsoft will stop supporting .NET 5 in early May 2022. A new edition of this book is available that uses .NET 6 (an LTS release with support up until November 2024), C# 10, and Visual Studio 2022, as well as Visual Studio Code. Key Features • Explore the newest additions to C# 9, the .NET 5 class library, Entity Framework Core and Blazor • Strengthen your command of ASP.NET Core 5.0 and create professional websites and services • Build cross-platform apps for Windows, macOS, Linux, iOS, and Android Book Description In C# 9 and .NET 5 – Modern Cross-Platform Development, Fifth Edition, expert teacher Mark J. Price gives you everything you need to start programming C# applications. This latest edition uses the popular Visual Studio Code editor to work across all major operating systems. It is fully updated and expanded with a new chapter on the Microsoft Blazor framework. The book's first part teaches the fundamentals of C#, including object-oriented programming and new C# 9 features such as top-level programs, target-typed new object instantiation, and immutable types using the record keyword. Part 2 covers the .NET APIs, for performing tasks like managing and querying data, monitoring and improving performance, and working with the file system, async streams, serialization, and encryption. Part 3 provides examples of cross-platform apps you can build and deploy, such as websites and services using ASP.NET Core or mobile apps using Xamarin.Forms. The best type of application for learning the C# language constructs and many of the .NET libraries is one that does not distract with unnecessary application code. For that reason, the C# and .NET topics covered in Chapters 1 to 13 feature console applications. In Chapters 14 to 20, having mastered the basics of the language and libraries, you will build practical applications using ASP.NET Core, Model-View-Controller (MVC), and Blazor. By the end of the book, you will have acquired the understanding and skills you need to use C# 9 and .NET 5 to create websites, services, and mobile apps. What you will learn • Build your own types with object-oriented programming • Query and manipulate data using LINQ • Build websites and services using ASP.NET Core 5 • Create intelligent apps using machine learning • Use Entity Framework Core and work with relational databases • Discover Windows app development using the Universal Windows Platform and XAML • Build rich web experiences using the Blazor

framework • Build mobile applications for iOS and Android using Xamarin.Forms Who this book is for This book is best for C# and .NET beginners, or programmers who have worked with C# in the past but feel left behind by the changes in the past few years. This book doesn't expect you to have any C# or .NET experience; however, you should have a general understanding of programming. Students and professionals with a science, technology, engineering, or mathematics (STEM) background can certainly benefit from this book. Table of Contents • Hello, C#! Welcome, .NET Core! • Speaking C# • Controlling Flow and Converting Types • Writing, Debugging, and Testing Functions • Building Your Own Types with Object-Oriented Programming • Implementing Interfaces and Inheriting Classes • Understanding and Packaging .NET Types • Working with Common .NET Types • Working with Files, Streams, and Serialization (N.B. Please use the Look Inside option to see further chapters) Review "Mark Price's extraordinary book covers every aspect of C# 9 and .NET 5. It is filled with step-by-step demonstrations and will be of tremendous value both to those who want to learn C# and to more experienced C# programmers making the transition to C# 9. Highly recommended!" -- Jesse Liberty - author of Programming C# and Learning C# (O'Reilly Media)

**Programming ASP.NET MVC 4** - Jess Chadwick 2012-09-26 Provides information on using ASP.NET MVC 4 to build server-side Web applications.

**Professional ASP.NET 3.5 Security, Membership, and Role Management with C# and VB** - Bilal Haidar 2009-04-03

This book is intended for developers who are already familiar with and have a solid understanding of ASP.NET 1.1 and ASP.NET 2.0 security concepts, especially in the areas of forms authentication, page security, and website authorization. It assumes that you have a good understanding of the general functionality of Membership and Role Manager. It is also assumes that you have some familiarity working with ASP.NET AJAX 3.5. The book aims to "peel back the covers" of various ASP.NET security features so you can gain a deeper understanding of the security options available to you. Explaining the new IIS 7.0 and its Integrated mode of execution is also included in the book. This book was written using the .NET 3.5 Framework along with the .NET Framework SPI on both Windows Sever 2008 and Windows Vista. The sample code in the book has been verified to work with .NET 3.5 Framework and .NET 3.5 Framework SPI on Windows Vista. To run all of the samples in the book you will need the following: Windows Server 2008 or Windows Vista Internet Information Services 7.0 (IIS 7.0) Visual Studio 2008 RTM Either SQL Server 2000 or SQL Server 2005 A Window's Sever 2008 domain running at Windows Server 2008 functional level This book covers many topics and areas in ASP.NET 2.0 and ASP.NET 3.5. It first introduces Internet Information Services 7.0 (IIS 7.0). It goes on to explain in detail the new IIS 7.0 Integrated mode of execution. Next, detailed coverage of how security is applied when the ASP.NET application starts up and when a request is processed in the newly introduced integrated request-processing pipeline is discussed. After this, the book branches out and begins to cover security information for features such as trust levels, forms authentication, page security, and session state. This will show you how you can benefit from the IIS 7.0 Integrated mode to make better use of ASP.NET features. You will also gain an understanding of the lesser known security features in ASP.NET 2.0 and ASP.NET 3.5. In chapter 10 the book changes direction and addresses two security services in ASP.NET 2.0 and ASP.NET 3.5: Membership and Role Manager. You will learn about the provider model that underlies each of these features. The internals of the feature are also discussed, as well as the SQL- and Active Directory-based providers included with them. The discussion of ASP.NET features is continued in chapter 17, which is dedicated to the



ASP.NET AJAX 3.5 security integration with ASP.NET 3.5; it will also show how to authenticate and authorize users with JavaScript code written from the client-side. The book closes with a chapter about the best practices ASP.NET developers should follow to protect their applications from attack. Chapter 1 starts by refreshing ideas on application pools and worker processes. It later gets into the major components that make up IIS 7.0. Chapter 2 begins by introducing the advantages of the IIS 7.0 and ASP.NET integrated mode. Chapter 3 gives you a walkthrough of the security processing that both IIS 7.0 and ASP.NET perform in the integrated/unified request-processing pipeline. Chapter 4 defines what an ASP.NET trust level is and how ASP.NET trust levels work to provide secure environments for running web applications. Chapter 5 covers the security features in the 2.0 and 3.5 Frameworks' configuration systems. Chapter 6 explains ASP.NET 2.0 and ASP.NET 3.5 features for forms authentication. Chapter 7 demonstrates using IIS 7.0 wildcard mappings and ASP.NET 2.0 and ASP.NET 3.5 support for wildcard mappings to share authentication and authorization information with Classic ASP applications. Chapter 8 covers security features and guidance for session state. Chapter 9 describes some lesser known page security features from ASP.NET 1.1 and describes how ASP.NET 2.0 and ASP.NET 3.5 options for securing viewstate and postback events. Chapter 10 gives you an architectural overview of the provider model in both ASP.NET 2.0 and ASP.NET 3.5. Chapter 11 talks about the Membership feature in ASP.NET 2.0 and ASP.NET 3.5 Chapter 12 delves into both the SqlMembershipProvider as well as general database design assumptions that are included in all of ASP.NET 2.0's and ASP.NET 3.5's SQL-based features. Chapter 13 covers other membership provider that ships in ASP.NET 2.0 and ASP.NET 3.5-ActiveDirectoryMembershipProvider. Chapter 14 describes the Role Manager feature that provides built-in authorization support for ASP.NET 2.0 and ASP.NET 3.5. Chapter 15 discusses the SqlRoleProvider and its underlying SQL schema. Chapter 16 covers the AuthorizationStoreRoleProvider, which is a provider that maps Role Manager functionality to the Authorization Manager. Chapter 17 discusses how ASP.NET AJAX 3.5 integrates with ASP.NET 3.5 Membership and Role management features through newly introduced web services. Chapter 18 covers the best practices that can be followed to secure ASP.NET applications. Bilal Haidar has authored several online articles for [www.aspalliance.com](http://www.aspalliance.com), [www.code-magazine.com](http://www.code-magazine.com), and [www.aspnetpro.com](http://www.aspnetpro.com). He is one of the top posters at the ASP.NET forums. He has been a Microsoft MVP in ASP.NET since 2004 and is also a Microsoft certified trainer. Currently, Bilal works as a senior developer for Consolidated Contractors Company (CCC), whose headquarters are based in Athens, Greece. Stefan Schackow, the previous author of this book, is a Program Manager on the Web Platform and Tools Team at Microsoft. He worked on the new application services stack in Visual Studio 2005 and owned the Membership, Role Manager, Profile, Personalization, and Site Navigation features in ASP.NET 2.0. Currently he is working on Silverlight for Microsoft. Stefan is a frequent speaker at Microsoft developer conferences.

#### **C# 7 and .NET: Designing Modern Cross-platform Applications** - Mark J. Price 2018-12-21

Explore C# and the .NET Core framework to create applications and optimize them with ASP.NET Core 2 Key Features Get to grips with multi-threaded, concurrent, and asynchronous programming in C# and .NET Core Develop modern, cross-platform applications with .NET Core 2.0 and C# 7.0 Create efficient web applications with ASP.NET Core 2. Book Description C# is a widely used programming

language, thanks to its easy learning curve, versatility, and support for modern paradigms. The language is used to create desktop apps, background services, web apps, and mobile apps. .NET Core is open source and compatible with Mac OS and Linux. There is no limit to what you can achieve with C# and .NET Core. This Learning Path begins with the basics of C# and object-oriented programming (OOP) and explores features of C#, such as tuples, pattern matching, and out variables. You will understand .NET Standard 2.0 class libraries and ASP.NET Core 2.0, and create professional websites, services, and applications. You will become familiar with mobile app development using Xamarin.Forms and learn to develop high-performing applications by writing optimized code with various profiling techniques. By the end of C# 7 and .NET: Designing Modern Cross-platform Applications, you will have all the knowledge required to build modern, cross-platform apps using C# and .NET. This Learning Path includes content from the following Packt products: C# 7.1 and .NET Core 2.0 - Modern Cross-Platform Development - Third Edition by Mark J. Price C# 7 and .NET Core 2.0 High Performance by Ovais Mehboob Ahmed Khan What you will learn Explore ASP.NET Core to create professional web applications Master OOP with C# to increase code reusability and efficiency Protect your data using encryption and hashing Measure application performance using BenchmarkDotNet Use design techniques to increase your application's performance Learn memory management techniques in .NET Core Understand tools and techniques to monitor application performance Who this book is for This Learning Path is designed for developers who want to gain a solid foundation in C# and .NET Core, and want to build cross-platform applications. To gain maximum benefit from this Learning Path, you must have basic knowledge of C#.

#### **Building Microservices with ASP.NET Core** - Kevin Hoffman 2017-08-31

Chapter 7. Building an ASP.NET Core Web Application; ASP.NET Core Basics; Adding ASP.NET MVC Middleware; Adding a Controller; Adding a Model; Adding a View; Invoking REST APIs from JavaScript; Building Cloud-Native Web Applications; API First; Configuration; Logging; Session State; Data Protection; Backing Services; Environment Parity; Port Binding; Telemetry; Authentication and Authorization; Summary; Chapter 8. Service Discovery; Refresher on Cloud-Native Factors; External Configuration; Backing Services; Introducing Netflix Eureka; Discovering and Advertising ASP.NET Core Services

*ASP.NET 2.0 Instant Results* - Imar Spaanjaars 2006-03-24  
*ASP.NET 2.0 Instant Results* helps you quickly create dynamic Web pages with ASP.NET 2.0. The book is centered around a dozen ready-to-use projects with all the code for all the projects included on the books CD-ROM - that you can use immediately. ASP.NET 2.0 Instant Results dives into working code so you can learn it rapidly. The book and projects are written for intermediate-level programmers with some .NET experience. The projects and book provide a quick start reference so you can use ASP.NET 2.0 immediately. Each of the 12 project features step-by-step set-up instructions with a description of each project that enables you to understand and then modify it so you can reuse it in different situations. The 12 projects covered in the book with complete source-code on the CD are: Online diary and organizer File share Chat server Survey engine CMS Blog Photo album Customer support site WebShop Appointment booking system Greeting cards Bug base Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.