

Dotnet Framework

Dirk Strauss,Jas Rademeyer

.NET Framework Essentials Thuan Thai, Hoang Lam, 2003 This concise guide for experienced programmers and software architects is a complete no-nonsense overview of key elements and programming languages central to all .NET application development

Programming in the .NET Environment Damien Watkins, Mark J. Hammond, Brad Abrams, 2003 Not only does this book describe the goals and architecture of the .NET Framework, but it also demonstrates how it implements facilities and services to meet these goals. This book shows developers how to produce generic frameworks, libraries, classes, and tools to be used in the .NET Framework.

Customizing ASP.NET Core 5.0 Jürgen Gutsch, 2021-01-28 A guide to discovering the hidden behaviors of ASP.NET Core that can be customized to optimize your .NET 5 applications Key Features Customize the default behavior of ASP.NET Core to get the most out of the framework Enhance the app configuration, change the default dependency injection, and build your own tag helpers Discover best practices for configuring ASP.NET Core, from user interface design to hosting it on platforms Book Description ASP.NET Core is the most powerful Microsoft web framework. Although it's full of rich features, sometimes the default configurations can be a bottleneck and need to be customized to suit the nature and scale of your app. If you're an intermediate-level .NET developer who wants to extend .NET Core to multiple use cases, it's important to customize these features so that the framework works for you effectively. Customizing ASP.NET Core 5.0 covers core features that can be customized for developing optimized apps. The customization techniques are also updated to work with the latest .NET 5 framework. You'll learn essential concepts relating to optimizing the framework such as configuration, dependency injection, routing, action filters, and more. As you progress, you'll be able to create custom solutions that meet the needs of your use case with ASP.NET Core. Later chapters will cover expert techniques and best practices for using the framework for your app development needs, from UI design to hosting. Finally, you'll focus on the new endpoint routing in ASP.NET Core to build custom endpoints and add third-party endpoints to your web apps for processing requests faster. By the end of this application development book, you'll have the skills you need to be able to customize ASP.NET Core to develop robust optimized apps. What you will learn Explore various application configurations and providers in ASP.NET Core 5 Understand dependency injection in .NET and learn how to add third-party DI containers Discover the concept of middleware and write your own middleware for ASP.NET Core apps Create various API output formats in your API-driven projects Get familiar with different hosting models for your ASP.NET Core app Develop custom routing endpoints and add third-party endpoints Configure WebHostBuilder effectively for your web applications Who this book is for This .NET 5 book is for .NET developers who need to change the default behaviors of the framework to help improve the performance of their applications. Intermediate-level knowledge of ASP.NET Core and C# is required before getting started with the book.

.NET Framework Essentials Thuan L. Thai, Hoang Q. Lam, 2001 .NET Framework Essentials is an objective, concise, and technical overview of the new Microsoft .NET Framework for developing web applications and services. Specifically written for intermediate to advanced VB, C/C++, Java, and Delphi developers, .NET Framework Essentials is also useful to system architects and leaders who are assessing tools for future projects. The authors devote special attention to the writing of .NET components plus web applications and services. This book takes on all of the most important .NET Framework topics--from the underlying Common Language Runtime (CLR) to its specialized packages for ASP.NET, Web Forms, Windows Forms, XML and data access (ADO.NET). The authors survey each of the major .NET languages, including VB.NET, C#, and Managed C++, as well as MSIL, the intermediate language understood by the CLR. They've included working code samples in every .NET language. Compact and free of fluff or proprietary hype, .NET Framework Essentials is an outstanding value for experienced programmers and architects who need to get up to speed quickly on a far-reaching new technology.

.NET Core in Action Dustin Metzgar, 2018-07-12 Summary .NET Core in Action shows .NET developers how to build professional software applications with .NET Core. Learn how to convert existing .NET code to work on multiple platforms or how to start new projects with knowledge of the tools and capabilities of .NET Core. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology .NET Core is an open source framework that lets you write and run .NET applications on Linux and Mac, without giving up on Windows. Built for everything from lightweight web apps to industrial-strength distributed systems, it's perfect for deploying .NET servers to any cloud platform, including AWS and GCP. About the Book .NET Core in Action introduces you to cross-platform development with .NET Core. This hands-on guide concentrates on new Core features as you walk through familiar tasks like testing, logging, data access, and networking. As you go, you'll explore modern architectures like microservices and cloud data storage, along with practical matters like performance profiling, localization, and signing assemblies. What's Inside Choosing the right tools Testing, profiling, and debugging Interacting with web services Converting existing projects to .NET Core Creating and using NuGet packages About the Reader All examples are in C#. About the Author Dustin Metzgar is a seasoned developer and architect involved in numerous .NET Core projects. Dustin works for Microsoft. Table of Contents Why .NET Core? Building your first .NET Core applications How to build with .NET Core Unit testing with xUnit Working with relational databases Simplify data access with object-relational mappers Creating a microservice Debugging Performance and profiling Building world-ready applications Multiple frameworks and runtimes Preparing for release appendix A - Frameworks and runtimes appendix B - xUnit command-line options appendix C - What's in the .NET Standard Library? appendix D - NuGet cache locations

C# 7 and .NET Core 2.0 Blueprints Dirk Strauss, Jas Rademeyer, 2018-03-28 Leverage the features of C# 7 and .NET core 2.0 to build real-world .NET core applications Key Features Easy-to-follow real-world projects that get you up and running with the new features of C# 7 and .NET Core 2.0 The practical applications will assist you with concepts such as Entity Framework Core, serverless computing, and more in .NET Core 2.0 Explore OAuth concepts and build ASP.NET Core applications using MongoDB Book Description .NET Core is a general purpose, modular, cross-platform, and open source implementation of .NET. With the latest release of .NET Core, many more APIs are expected to show up, which will make APIs consistent across .Net Framework, .NET Core, and Xamarin. This step-by-step guide will teach you the essential .NET Core and C# concepts with the help of real-world projects. The book starts with a brief introduction to the latest features of C# 7 and .NET Core 2.0 before moving on to explain how C# 7 can be implemented using the object-oriented paradigm. You'll learn to work with relational data using Entity Framework and see how to use ASP.NET Core practically. This book will show you how .NET Core allows the creations of cross-platform applications. You'll also learn about SignalR to add real-time functionality to your application. Then you will see how to use MongoDB and how to implement MongoDB into your applications. You'll learn about serverless computing and OAuth concepts, along with running ASP.NET Core applications with Docker Compose. This project-based guide uses practical applications to demonstrate these concepts. By the end of the book, you'll be proficient in developing applications using .NET Core 2.0. What you will learn How to incorporate Entity Framework Core to build ASP .NET Core MVC applications Get hands-on experience with SignalR, and NuGet packages Working with MongoDB in your ASP.NET Core MVC application Get hands-on experience with .NET Core MVC, Middleware, Controllers, Views, Layouts, Routing, and OAuth Implementing Azure Functions and learn what Serverless computing means See how .NET Core enables cross-platform applications that run on Windows, macOS and Linux Running a .NET Core MVC application with Docker Compose Who this book is for This book is for .NET developers who would like to master and implement C# 7 and .NET Core 2.0 with practical projects. Basic knowledge of .NET Core and C# is assumed.

Applied Microsoft .NET Framework Programming in Microsoft Visual Basic .NET Jeffrey Richter, Francesco Balena, 2003 The Microsoft .NET Framework provides powerful technologies such as ASP.NET Web Forms, XML Web services, and Windows Forms to simplify developing applications and components that work seamlessly on the Internet. This book shows how to make the most of the .NET Framework's common language runtime (CLR). Written by two highly respected developer/writers and intended for anyone who understands OOP concepts such as data abstraction, inheritance, and polymorphism, this book clearly explains the extensible type system of the CLR, examines how the CLR manages the behavior of types, and explores how an application manipulates types. While focusing on Visual Basic .NET, its in-depth explanations and concepts apply equally to all programming languages that target the .NET Framework. Topics covered include: The .NET Framework architecture Building, packaging, deploying, and administering applications and

their types Building and deploying shared assemblies Type fundamentals Primitive, reference, and value types Operations common to all objects Type members and accessibility Constants, fields, methods, properties, and events Working with text Enumerated types and bit flags Array types Interfaces Custom attributes Delegates Error handling with exceptions Automatic memory management AppDomains and reflection

C# 10 and .NET 6 – Modern Cross-Platform Development Mark J. Price, 2021-11-09 Publisher's Note: Microsoft will stop supporting .NET 6 from November 2024. The newer 8th edition of the book is available that covers .NET 8 (end-of-life November 2026) with C# 12 and EF Core 8. Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore the newest additions to C# 10, the .NET 6 class library, and Entity Framework Core 6 Create professional websites and services with ASP.NET Core 6 and Blazor Build cross-platform apps for Windows, macOS, Linux, iOS, and Android Book Description Extensively revised to accommodate all the latest features that come with C# 10 and .NET 6, this latest edition of our comprehensive guide will get you coding in C# with confidence. You'll learn object-oriented programming, writing, testing, and debugging functions, implementing interfaces, and inheriting classes. The book covers the .NET APIs for performing tasks like managing and querying data, monitoring and improving performance, and working with the filesystem, async streams, and serialization. You'll build and deploy cross-platform apps, such as websites and services using ASP.NET Core. Instead of distracting you with unnecessary application code, the first twelve chapters will teach you about C# language constructs and many of the .NET libraries through simple console applications. In later chapters, having mastered the basics, you'll then build practical applications and services using ASP.NET Core, the Model-View-Controller (MVC) pattern, and Blazor. What you will learn Build rich web experiences using Blazor, Razor Pages, the Model-View-Controller (MVC) pattern, and other features of ASP.NET Core Build your own types with object-oriented programming Write, test, and debug functions Query and manipulate data using LINQ Integrate and update databases in your apps using Entity Framework Core, Microsoft SQL Server, and SQLite Build and consume powerful services using the latest technologies, including gRPC and GraphQL Build cross-platform apps using XAML Who this book is for Designed for both beginners and C# and .NET programmers who have worked with C# in the past and want to catch up with the changes made in the past few years, this book doesn't need you to have any C# or .NET experience. However, you should have a general understanding of programming before you jump in.

Understanding System.IO for .NET Core 3 Roger Villela, 2020-05-29 Take full advantage of the .NET APIs in System.IO to achieve fundamental I/O operations and produce better quality software. You'll start with the basics of creating a .NET Core custom library for System.IO. You will learn the purpose and benefits of a custom cross-platform .NET Core library along with the implementation architecture of the custom library components. Moving forward, you will learn how to use the .NET APIs of System.IO for getting information about resources. Here, you will go through drives, directories, files, and much more in the .NET API. You'll discuss manipulation of resources and the environment, where you will learn how to build custom IO actions for resource manipulation followed by its properties and security. Next, you will learn special .NET API operations with System.IO with demonstrations on working with collection of resources, directories, files, and system information. Finally, you will go through the managed and unmanaged streams in the .NET API such as memory stream, file stream, and much more. After reading Understanding System.IO for .NET Core 3, you will be able to work with different features of .System.IO in .NET Core and implement its internal and commercial tools for different I/O scenarios. What You Will Learn Discover the inner workings of the System.IO BCL implementation on the .NET Core platform Work with System.IO mechanisms available through the .NET Core platform Write a custom library that encapsulates .NET APIs from System.IO Design and implement various tools in System.IO Who This Book Is For Developers with prior experience of working in .NET or .NET Core.

.NET Framework Standard Library Annotated Reference, Volume 1 (paperback) Brad Abrams, 2008-01-10 Edited by a Lead Program Manager on Microsoft's .NET Framework team, .NET Framework Standard Library Annotated Reference, Volume 1, is the definitive reference for the .NET Framework base class library. This book utilizes extensive annotations and code samples from the creators of the technology to move beyond the online documentation and provide .NET developers with a dictionary-style reference to the most-used parts of the Framework. This volume covers a subset of the ISO CLI Standards, including the Base Class Library and the Extended Numerics Library. In the printed book you will find informative overviews of each namespace covered and an easy-to-follow alphabetic reference of types in the standard, including type-level descriptions, sample code with output, and annotations from the design team and standardization committee. With the ECMA and ISO standards as its core, this book includes: Annotations from key members of the Microsoft design team and the Standardization committee. Comments cover everything from design rationale and history to common problems and shortcomings. An overview of each namespace, describing its functionality and the inheritance hierarchy of types it defines. Type descriptions. Each type is covered in its own chapter, with a detailed description of how the type is to be used and a quick reference of the C# declaration syntax for all members defined on the type. Also noted: which members are only available in the Microsoft implementation of the .NET Framework, which are not available in the .NET Compact Framework, and which are only available in V1.1 of the .NET Framework. Code samples. Types are illustrated by fully compilable code samples with output included. Reference tabs and an exhaustive index, which allow readers to quickly and easily navigate the text. Reusable source code for more than one thousand samples. All code has been tested with versions 1.0, 1.1, and the 2.0 technical preview of the .NET Framework, and, where appropriate, with the .NET Compact Framework.

C# 7 and .NET Core 2.0 High Performance Ovais Mehboob Ahmed Khan, 2018-04-25 Improve the speed of your code and optimize the performance of your apps Key Features Understand the common performance pitfalls and improve your application's performance Get to grips with multi-threaded and asynchronous programming in C# Develop highly performant applications on .NET Core using microservice architecture Book Description While writing an application, performance is paramount. Performance tuning for realworld applications often involves activities geared toward finding bottlenecks; however, this cannot solve the dreaded problem of slower code. If you want to improve the speed of your code and optimize an application's performance, then this book is for you. C# 7 and .NET Core 2.0 High Performance begins with an introduction to the new features of what?explaining how they help in improving an application's performance. Learn to identify the bottlenecks in writing programs and highlight common performance pitfalls, and learn strategies to detect and resolve these issues early. You will explore multithreading and asynchronous programming with .NET Core and learn the importance and efficient use of data structures. This is followed with memory management techniques and design guidelines to increase an application's performance. Gradually, the book will show you the importance of microservices architecture for building highly performant applications and implementing resiliency and security in .NET Core. After reading this book, you will learn how to structure and build scalable, optimized, and robust applications in C#7 and .NET. What you will learn Measure application performance using BenchmarkDotNet Explore the techniques to write multithreaded applications Leverage TPL and PLinq libraries to perform asynchronous operations Get familiar with data structures to write optimized code Understand design techniques to increase your application's performance Learn about memory management techniques in .NET Core Develop a containerized application based on microservices architecture Learn tools and techniques to monitor application performance Who this book is for This book is for .NET developers looking at improving the speed of their code or simply wanting to take their skills to the next level. Basic C# knowledge is assumed.

Building Web Applications with .NET Core 2.1 and JavaScript Philip Japikse, Kevin Grossnicklaus, Ben Dewey, 2019-12-13 Roll up your sleeves and jump into building web applications using .NET Core 2.1 and the most popular JavaScript frameworks. You will start by building a data access layer using Entity Framework Core, a RESTful service using ASP.NET Core, and then you will build a web application following the MVC pattern, also using ASP.NET Core. The resulting application is an example e-commerce site using the most appropriate capabilities in .NET Core for building a line of business applications. The second half of Building Web Applications with .NET Core 2.1 and JavaScript is dedicated to teaching you how to develop applications on the client with JavaScript, Bootstrap, and related tooling such as TypeScript, WebPack, NPM, and more. Each JavaScript framework will build the same UI as the ASP.NET Core web application from the first half of the book, leveraging the same ASP.NET Core RESTful service and Entity Framework Core data access layer.

Building the same UI in the different JavaScript frameworks provides the context and knowledge to reasonably compare and contrast the tools. What You Will Learn Ramp up quickly on Entity Framework Core and ASP.NET Core Use TypeScript to deliver better JavaScript Manage your JavaScript build process Know how to build UIs with ASP.NET Core MVC, Angular, and React to make better decisions on which technologies to adopt in your projects Conduct an apples-to-apples comparison of ASP.NET Core, Angular, and React Who This Book Is For .NET architects, consultants, and developers who want to modernize their skill set. Some understanding of JavaScript and the Web is useful.

.NET Standard 2.0 Cookbook Fiqri Ismail, 2018-05-18 Get the most out of .NET framework using standard libraries and create a .NET Standard 2.0 library from scratch Key Features Write code once and share within .NET ecosystem in Windows, Linux and macOS Give your .NET Libraries a common framework in cloud and on premise with the latest .NET Standard 2.0 Build a wide range of applications from Mobile with Xamarin to Web with ASP.NET Book Description The .NET Standard is a standard that represents a set of APIs that all .NET platforms have to implement, making it easy for developers to access and use one common library for their development needs. This book begins with a quick refresher, helping you understand the mechanics of the new standard and offering insight into how it works. You'll explore the core library concepts, such as working with collections, configurations, I/O, security, and multithreading. You'll explore the iOS and Android libraries of Xamarin and we'll guide you through creating a .NET Standard 2.0 library, which you'll use with both Android and iOS applications. In the final chapters, you'll learn the various debugging and diagnostics tools to deliver quality libraries and create a NuGet package of the .NET Standard 2.0 library. By the end of this book, you'll be able to expand your current workflow to various .NET flavors and have the essential skills to create a .NET Standard 2.0 library from scratch to package and deliver it to the world. What you will learn Create a .NET Standard 2.0 library Use System.IO within the .NET Standard 2.0 Make use of your legacy .NET libraries with the new .NET Core standard Explore the thread support to create a multithreaded .NET Standard 2.0 library Create a .NET Standard 2.0 library and use it with an Android and iOS application Implement various Visual Studio 2017 diagnostics and debugging tools Create a NuGet Package and submit the package to the NuGet Package Manager Use Visual Studio 2017 azure tools to deploy the application to Azure Test and deliver a .NET Standard 2.0 library Who this book is for This book is for .NET developers who are looking to build dynamic applications with the latest .NET Standard. C# knowledge is required.

Expert .NET Micro Framework Jens Khner, 2009-11-27 The Microsoft .NET Micro Framework is a small and efficient .NET runtime environment used to run managed code on devices that are too small and resource constrained for Windows CE and the Compact Framework. Expert .NET Micro Framework will teach you everything you need to know to use the .NET Micro Framework to create effective embedded applications. It begins with the basics of accessing hardware and networking before delving deep into the less-known areas such as cryptography and globalization, and how to use technologies such as wireless communication that are not directly supported by the .NET Micro Framework. This book is a must if you want to get as much as possible out of the .NET Micro Framework to write powerful embedded applications. Expert .NET Micro Framework also describes how to use resources and write globalized and multilingual embedded applications. You will learn how to effectively use binary serialization to store data permanently in flash memory or exchange data with a PDA or PC. Topics like cryptography and encrypted data exchange with a .NET or Compact Framework application are covered.

C# 8.0 and .NET Core 3.0 – Modern Cross-Platform Development Mark J. Price, 2019-10-31 Publisher's Note: Microsoft stops supporting .NET Core 3.1 in December 2022. The newer 7th edition of this book is available that covers .NET 7 (end-of-life May 2024) or .NET 6 (end-of-life November 2024), with C# 11 and EF Core 7. Key Features Build modern, cross-platform applications with .NET Core 3.0 Get up to speed with C#, and up to date with all the latest features of C# 8.0 Start creating professional web applications with ASP.NET Core 3.0 Book Description In C# 8.0 and .NET Core 3.0 – Modern Cross-Platform Development, Fourth 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 new chapters on Content Management Systems (CMS) and machine learning with ML.NET. The book covers all the topics you need. Part 1 teaches the fundamentals of C#, including object-oriented programming, and new C# 8.0 features such as nullable reference types, simplified switch pattern matching, and default interface methods. Part 2 covers the .NET Standard APIs, such as managing and querying data, monitoring and improving performance, working with the filesystem, async streams, serialization, and encryption. Part 3 provides examples of cross-platform applications you can build and deploy, such as web apps using ASP.NET Core or mobile apps using Xamarin.Forms. The book introduces three technologies for building Windows desktop applications including Windows Forms, Windows Presentation Foundation (WPF), and Universal Windows Platform (UWP) apps, as well as web applications, web services, and mobile apps. What you will learn Build cross-platform applications for Windows, macOS, Linux, iOS, and Android Explore application development with C# 8.0 and .NET Core 3.0 Explore ASP.NET Core 3.0 and create professional web applications Learn object-oriented programming and C# multitasking Query and manipulate data using LINQ Use Entity Framework Core and work with relational databases Discover Windows app development using the Universal Windows Platform and XAML Build mobile applications for iOS and Android using Xamarin.Forms Who this book is for Readers with some prior programming experience or with a science, technology, engineering, or mathematics (STEM) background, who want to gain a solid foundation with C# 8.0 and .NET Core 3.0.

C# 6.0 and the .NET 4.6 Framework ANDREW TROELSEN, Philip Japikse, 2015-11-16 This new 7th edition of Pro C# 6.0 and the .NET 4.6 Platform has been completely revised and rewritten to reflect the latest changes to the C# language specification and new advances in the .NET Framework. You'll find new chapters covering all the important new features that make .NET 4.6 the most comprehensive release yet, including: A Refined ADO.NET Entity Framework Programming Model Numerous IDE and MVVM Enhancements for WPF Desktop Development Numerous updates to the ASP.NET Web APIs This comes on top of award winning coverage of core C# features, both old and new, that have made the previous editions of this book so popular. Readers will gain a solid foundation of object-oriented development techniques, attributes and reflection, generics and collections as well as numerous advanced topics not found in other texts (such as CIL opcodes and emitting dynamic assemblies). The mission of this book is to provide you with a comprehensive foundation in the C# programming language and the core aspects of the .NET platform plus overviews of technologies built on top of C# and .NET (ADO.NET and Entity Framework, Windows Communication Foundation (WCF), Windows Presentation Foundation (WPF), ASP.NET (WebForms, MVC, WebAPI).). Once you digest the information presented in these chapters, you'll be in a perfect position to apply this knowledge to your specific programming assignments, and you'll be well equipped to explore the .NET universe on your own terms. What You Will Learn: Be the first to understand the .NET 4.6 platform and C# 6. Discover the ins and outs of the leading .NET technology. Learn from an award-winning author who has been teaching the .NET world since version 1.0. Find complete coverage of XAML, .NET 4.6 and Visual Studio 2015 together with discussion of the new Windows Runtime.

ASP.NET Core in Action, Second Edition Andrew Lock, 2021-03-18 ASP.NET Core in Action, Second Edition is a comprehensive guide to creating web applications with ASP.NET Core 5.0. Go from basic HTTP concepts to advanced framework customization. Summary Fully updated to ASP.NET 5.0, ASP.NET Core in Action, Second Edition is a hands-on primer to building cross-platform web applications with your C# and .NET skills. Even if you've never worked with ASP.NET you'll start creating productive cross-platform web apps fast. And don't worry about late-breaking changes to ASP.NET Core. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Build full-stack web applications that run anywhere. Developers love ASP.NET Core for its libraries and pre-built components that maximize productivity. Version 5.0 offers new features for server-side apps, as well as background services for cross-platform development. About the book ASP.NET Core in Action, Second Edition is a comprehensive guide to creating web applications with ASP.NET Core 5.0. Go from basic HTTP concepts to advanced framework customization. Illustrations and annotated code make learning visual and easy. Master logins, dependency injection, security, and more. This updated edition covers the latest features, including Razor Pages and the new hosting paradigm. What's inside Developing apps for Windows and non-Windows

servers Configuring applications Building custom components Logging, testing, and security About the reader For intermediate C# developers. About the author Andrew Lock is a Microsoft MVP who has worked with ASP.NET Core since before its first release. Table of Contents PART 1 - GETTING STARTED WITH ASP.NET CORE 1 Getting started with ASP.NET Core 2 Your first application 3 Handling requests with the middleware pipeline 4 Creating a website with Razor Pages 5 Mapping URLs to Razor Pages using routing 6 The binding model: Retrieving and validating user input 7 Rendering HTML using Razor views 8 Building forms with Tag Helpers 9 Creating a Web API for mobile and client applications using MVC PART 2 - BUILDING COMPLETE APPLICATIONS 10 Service configuration with dependency injection 11 Configuring an ASP.NET Core application 12 Saving data with Entity Framework Core 13 The MVC and Razor Pages filter pipeline 14 Authentication: Adding users to your application with Identity 15 Authorization: Securing your application 16 Publishing and deploying your application PART 3 - EXTENDING YOUR APPLICATIONS 17 Monitoring and troubleshooting errors with logging 18 Improving your application's security 19 Building custom components 20 Building custom MVC and Razor Pages components 21 Calling remote APIs with HttpClientFactory 22 Building background tasks and services 23 Testing your application

Learning ASP.NET Core 2.0 Jason De Oliveira, Michel Bruchet, 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

Network Programming for the Microsoft .NET Framework Anthony Jones, Jim Ohlund, Lance Olson, 2004 Learn the best ways to exploit the networking APIs in the .NET Framework—and deliver greater flexibility, interoperability, and power to your network applications. Three network programming specialists from Microsoft demonstrate how to use the System.Net namespace, which contains the core classes for network development, across a range of scenarios—from writing your first socket-based application to developing high performance N-tier Web applications. Whether you're a Win32-based network programmer moving to the .NET Framework or you're an XML Web Services or .NET Remoting developer looking for a better understanding of how these technologies relate to the network, this singular reference delivers the code and instruction you need. Discover how to: Use serialization techniques—binary, XML, and SOAP—to package complex data Enable concurrent programming—and increase application flexibility—with threads and asynchronous I/O Resolve URIs without writing protocol-specific code Communicate over IP networks using DNS, IPv4, and IPv6 Learn core to advanced socket programming techniques for both client and server operations Employ the .NET Web-related classes to retrieve HTTP content—proxy servers, cookies, credentials, and more Fine-tune XML Web services in your network programs and customize the underlying HTTP protocol for optimal efficiency Write a .NET Remoting custom channel to communicate over any data transmission medium Utilize code access security, encryption technology, and HTTP authentication techniques Boost application performance and scalability by streamlining resources

Customizing ASP.NET Core 6.0 Jürgen Gutsch, 2021-12-31 Explore hidden behaviors and customization techniques to help you get the most out of ASP.NET Core for building web applications Key Features Second edition updated and enhanced to cover the latest .NET 6 features and changes Learn expert techniques to implement authentication and authorization for securing your web apps Discover best practices for configuring ASP.NET Core, from user interface design to hosting it on platforms Book Description ASP.NET Core comes packed full of hidden features for building sophisticated web applications. You'd be missing out on a lot of its capabilities by not customizing it to work for your applications. With Customizing ASP.NET Core 6.0, you'll discover techniques to help you get the most out of the framework to deliver robust applications. In this updated second edition, you'll cover the latest features and changes in the .NET 6 LTS version. You'll find new insights and customization techniques for important topics such as authentication and authorization. The book will also show you how to work with caches and change the default behavior of ASP.NET Core apps. You'll learn essential concepts relating to optimizing the framework, such as configuration, dependency injection, routing, action filters, and more. As you progress, you'll be able to create custom solutions that meet the needs of your use case with ASP.NET Core. Later chapters will cover expert techniques and best practices for using the framework for your app development needs, from UI design to hosting. Finally, you'll focus on the new endpoint routing in ASP.NET Core to build custom endpoints and add third-party endpoints to your web apps for processing requests faster. By the end of this book, you'll be able to customize ASP.NET Core to develop robust optimized apps. What you will learn Explore various application configurations and providers in ASP.NET Core 6 Enable and work with caches to improve the performance of your application Understand dependency injection in .NET and learn how to add third-party DI containers Discover the concept of middleware and write your middleware for ASP.NET Core apps Create various API output formats in your API-driven projects Get familiar with different hosting models for your ASP.NET Core app Who this book is for This .NET 6 book is for .NET developers who need to change the default behaviors of the framework to help improve the performance of their applications. Intermediate-level knowledge of ASP.NET Core and C# is required before getting started with the book.

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