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Build cross-platform solutions with .NET Core 2.0 through real-life

scenarios Key Features Bridges the gap between learning and doing and improves your software development skills Covers the best practices of .NET development to improve your productivity Example-based approach to get you started quickly with software programming Book Description With the rise in the number of tools and technologies available today, developers and architects are always exploring ways to create better and smarter solutions. Before, the differences between target platforms was a major roadblock, but that's not the case now. .NET Core 2.0 By Example will take you on an exciting journey to building better software. This book provides fresh and relevant content to .NET Core 2.0 in a succinct format that's enjoyable to read. It also delivers concepts, along with the implications, design decisions, and potential pitfalls you might face when targeting Linux and Windows systems, in a logical and simple way. With the .NET framework at its center, the book comprises of five varied projects: a multiplayer Tic-tac-toe game; a real-time chat application, Let'sChat; a chatbot; a microservice-based buying-selling application; and a movie booking application. You will start each chapter with a high-level overview of the content, followed by the above example applications described in detail. By the end of each chapter, you will not only be proficient with the concepts, but you'll also have created a tangible component in the application. By the end of the book, you will have built five solid projects using all the tools and support provided by the .NET Core 2.0 framework. What you will learn Build cross-platform applications with ASP.NET Core 2.0 and its tools Integrate, host, and deploy web apps with the cloud (Microsoft Azure) Leverage the ncurses native library to extend console capabilities in .NET Core on Linux and interop with native coden .NET Core on Linux and learn how to interop

with existing native code Reuse existing .NET Framework and Mono assemblies from .NET Core 2.0 applications Develop real-time web applications using ASP.NET Core Learn the differences between SOA and microservices and get started with microservice development using ASP.NET Core 2.0 Walk through functional programming with F# and .NET Core from scratch Who this book is for If you are a developer or architect and want to learn how to build cross-platform solutions using Microsoft .NET Core, this book is for you. It is assumed that you have some knowledge of the .NET Framework, OOP, and C# (or a similar programming language). 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 * The only book that shows how to build cross-platform .NET applications: provides hands-on experience with the revolutionary Mono and Portable.NET projects on Linux and Mac OS X. * Describes how to build cross-platform GUIs that run on any .NET implementation. * Promotes best practices through the use of design patterns and automated testing and building tools, such as NUnit and NAnt. Celebrate Thanksgiving with Annie and Snowball in this Level 2 Ready-to-Read story from the Theodor Seuss Geisel Award-winning creators of Henry and Mudge! Annie loves fall and she especially loves Thanksgiving. There is a big table at Annie's house, and she wants lots of people around it for a yummy dinner. But Annie lives with just her dad and her bunny, Snowball. She doesn't have a big family of her own. Who can she invite to share Thanksgiving? Become a professional .NET developer by learning expert techniques for building enterprise-grade applications Key Features Explore the advanced features of C# and .NET 5 to enhance your code and productivity Follow clear and easy instructions for building an end-to-end enterprise application Learn how to build scalable web applications and host them on the cloud Book Description .NET Core is one of the most popular programming platforms in the world for an increasingly large community of developers thanks to its excellent cross-platform support. This book will show you how to confidently use the features of .NET 5 with C# 9 to build robust

enterprise applications. Throughout the book, you'll work on creating an enterprise app and adding a key component to the app with each chapter, before finally getting it ready for testing and deployment. You'll learn concepts relating to advanced data structures, the Entity Framework Core, parallel programming, and dependency injection. As you progress, you'll cover various authentication and authorization schemes provided by .NET Core to make your apps and APIs secure. Next, you'll build web apps using ASP.NET Core 5 and deploy them on the cloud while working with various cloud components using Azure. The book then shows you how to use the latest Microsoft Visual Studio 2019 and C# 9 to simplify developer tasks, and also explores tips and tricks in Visual Studio 2019 to improve your productivity. Later, you'll discover various testing techniques such as unit testing and performance testing as well as different methods to deploy enterprise apps. By the end of this book, you'll be able to create enterprise apps using the powerful features of .NET 5 and deploy them on the cloud. What you will learn Design enterprise apps by making the most of the latest features of .NET 5 Discover different layers of an app, such as the data layer, API layer, and web layer Explore end-to-end architecture, implement an enterprise web app using .NET and C# 9, and deploy the app on Azure Focus on the core concepts of web application development such as dependency injection, caching, logging, configuration, and authentication, and implement them in .NET 5 Integrate the new .NET 5 health and performance check APIs with your app Understand how .NET 5 works and contribute to the .NET 5 platform Who this book is for If you are a developer, architect, or senior programmer who wants to leverage the features of .NET 5 and the C# language, as well as grasp essential techniques to build your skills, then this C# .NET 5 book is for you. Beginner to intermediate-level knowledge of the .NET framework and C# programming is required to understand the concepts covered in this book more effectively. With the clarity and precision intrinsic to the Test-Driven Development (TDD) process itself, experts James Newkirk and Alexei Vorontsov demonstrate how to implement TDD principles and practices to drive lean, efficient coding—and better design. The best way

to understand TDD is to see it in action, and Newkirk and Vorontsov walk step by step through TDD and refactoring in an n-tier, .NET-connected solution. And, as members of the development team for NUnit, a leading unit-testing framework for Microsoft .NET, the authors can offer matchless insights on testing in this environment—ultimately making their expertise your own. Test first—and drive ambiguity out of the development process: Document your code with tests, rather than paper Use test lists to generate explicit requirements and completion criteria Refactor—and improve the design of existing code Alternate programmer tests with customer tests Change how you build UI code—a thin layer on top of rigorously tested code Use tests to make small, incremental changes—and minimize the debugging process Deliver software that's verifiable, reliable, and robust CD-ROM contains: Searchable electronic version of text -- Source code for more than 75 complete sample programs and components written in C# -- .NET Framework SDK, plus service pack 1. The Microsoft .NET Framework represents an exciting new world for developers who work with Microsoft Access, Visual Basic, and Visual Basic for Applications. This book provides complete, practical details on how to take advantage of this world by building or upgrading Access-based client applications with Visual Basic .NET. It gives you specific instructions about how the .NET Framework pertains to Access development. Then it explores programming with Visual Basic .NET and ADO.NET, and it puts it all together with examples and code samples that show how to develop robust Web applications and services with these tools. Topics covered include: What's in the Microsoft .NET Framework for Access developers Getting started with Visual Basic .NET and Microsoft Visual Studio .NET Visual Basic.NET techniques for data types, procedures, loops, arrays, classes, class inheritance, event processing, structured exception handling, and file processing Code behind Windows Forms and programming with form controls Form navigation, the Data Form Wizard, and programming the DataGrid control Learning ADO.NET architecture and programming data access and manipulation, plus drilling down on datasets and parent-child relations with ADO.NET A Windows Form sample to browse, manipulate,

and handle concurrency violations Learning ASP.NET page design and implementing ADO.NET with ASP.NET pages Using, creating, and deploying XML Web services Securing .NET Windows and Web applications using Access databases Appendix: XML syntax and schema conventions plus Visual Studio .NET XML Designers INCLUDES SAMPLE CODE ON THE WEB! Sample code available at the COMPANION CONTENT link on this page "Internationalization and Localization Using Microsoft .NET" shows how to localize code using Visual Studio .NET. Author Nick Symonds is an experienced developer and project manager of Windows applications intended for use worldwide. Symonds knows the advantages of localization in the design stage and the disadvantages of localizing a project after the fact. Both methods of localizing code are discussed in this book. VS .NET has quite a few tools available for the developer to aid in the localization process. These tools are discussed in depth, and the pros and cons of each are presented to the reader. Symonds includes a comprehensive example of a resource editor that takes readers through writing this editor in both C# and VB .NET. This project is not only useful as a product in itself, but is also instructive in how to write fairly complicated code in both .NET languages. Microsoft's C# ("C sharp") is a modern, object-oriented programming language built from the ground up to exploit the power of XML-based Web services on Microsoft's new .NET platform. With its Visual C++ development system heritage, C# will enable millions of C and C++ developers to use existing skills to rapidly build sophisticated XML-based .NET applications. Why Will Web Developers Switch to C#? ...Because it's the ideal solution for C and C++ programmers who need to combine rapid development with the power to access all the functionality of the Microsoft.NET platform. They want an environment that is completely in sync with emerging Web standards and one that provides easy integration with existing applications. C#.net Web Developer's Guide will enhance developer productivity and help them eliminate programming errors that can lead to increased development costs. This book teaches Web developers to quickly and easily build solutions for the Microsoft .NET platform. Web developers will learn to use C# components to build Web services and

applications that are available across the Internet, from any application running on any platform. * Timely coverage of newly released product - programmers and developers are anxious to learn about the new technology * Comes with Syngress' revolutionary wallet-sized CD containing a printable HTML version of the book and all of the source code examples and demos of popular C# upgrade and programming tools Microsoft's introduction of its XML Web platform, .NET Framework, and its C# programming language signal Microsoft's total entry into e-commerce, fundamentally changing the way businesses and people interact over the Internet. Building Web Applications with C# and .NET: A Complete Reference is a comprehensive resource with a sharp focus on how to develop and deploy distributed applications using Microsoft's .NET Framework and C#. Written for C++, Visual Basic, Java, and ASP programmers making the transition to .NET, the text begins by providing the fundamentals of network programming and then expands these basics to demonstrate how to use the concepts and capabilities of .NET for developing distributed applications. Heavily referenced with many exercises, the text provides a clear, detailed exposition on the essential elements of the .NET Framework requisite to distributed programming. Coverage of ASP, C#, ADO Database Access, HTML, XM, WSDL and SOAP, and Web Services make this text the ultimate reference on the .Net Framework. Numerous examples illustrate the concepts and techniques discussed and the hands-on exercises demonstrate the visual studio development environment. Building Web Applications with C# and .NET: A Complete Reference includes a tutorial on the C# programming language and provides you with the skills and tools that you will need to develop and deploy distributed applications. Build efficient web apps and deliver great results by integrating Angular and the .NET framework About This Book Become a more productive developer and learn to use frameworks that implement good development practices Achieve advanced autocompletion, navigation, and refactoring in Angular using Typescript Follow a gradual introduction to the concepts with a lot of examples and explore the evolution of a production-ready application Who This Book Is For If you are a .NET developer who now wants to

efficiently build single-page applications using the new features that Angular 4 has to offer, then this book is for you. Familiarity of HTML, CSS, and JavaScript is assumed to get the most from this book. What You Will Learn Create a standalone Angular application to prototype user interfaces Validate complex forms with Angular version 4 and use Bootstrap to style them Build RESTful web services that work well with single-page applications Use Gulp and Bower in Visual Studio to run tasks and manage JavaScript packages Implement automatic validation for web service requests to reduce your boilerplate code Use web services with Angular version 4 to offload and secure your application logic Test your Angular version 4 and web service code to improve the quality of your software deliverables In Detail Are you are looking for a better, more efficient, and more powerful way of building front-end web applications? Well, look no further, you have come to the right place! This book comprehensively integrates Angular version 4 into your tool belt, then runs you through all the new options you now have on hand for your web apps without bogging you down. The frameworks, tools, and libraries mentioned here will make your work productive and minimize the friction usually associated with building server-side web applications. Starting off with building blocks of Angular version 4, we gradually move into integrating TypeScript and ES6. You will get confident in building single page applications and using Angular for prototyping components. You will then move on to building web services and full-stack web application using ASP.NET WebAPI. Finally, you will learn the development process focused on rapid delivery and testability for all application layers. Style and approach This book covers everything there is to know about getting well-acquainted with Angular 4 and .NET without bogging you down. Everything is neatly laid out under clear headings for quick consultation, offering you the information required to understand a concept immediately, with short, relevant examples of each feature. Experience the dynamic changes of the next generation of Visual Basic! Best-selling author, Diane Zak takes Microsoft's .NET platform head on with this innovative book for beginning programmers. Unlike other programming titles, this book teaches programming from a task-

driven approach rather than a command-driven approach. It includes extensive hands-on, end-of-chapter materials and tutorials. By working through the tutorials, which are each motivated by a realistic case, individuals learn how to use programming applications found in the workplace. Second, the content, organization, and approach of this book exploit the already-familiar, popular Windows environment. Master the latest programming tools with this highly successful book. Brilliantly compiled by author Juval Lowy, *Programming .NET Components, Second Edition* is the consummate introduction to the Microsoft .NET Framework--the technology of choice for building components on Windows platforms. From its many lessons, tips, and guidelines, readers will learn how to use the .NET Framework to program reusable, maintainable, and robust components. Following in the footsteps of its best-selling predecessor, *Programming .NET Components, Second Edition* has been updated to cover .NET 2.0. It remains one of the few practical books available on this topic. This invaluable resource is targeted at anyone who develops complex or enterprise-level applications with the .NET platform--an ever-widening market. In fact, nearly two million Microsoft developers worldwide now work on such systems. *Programming .NET Components, Second Edition* begins with a look at the fundamentals of component-oriented programming and then progresses from there. It takes the time to carefully examine how components can simplify and add flexibility to complex applications by allowing users to extend their capabilities. Next, the book introduces a variety of .NET essentials, as well as .NET development techniques. Within this discussion on component development, a separate chapter is devoted to each critical development feature, including asynchronous calls, serialization, remoting, security, and more. All the while, hazardous programming pitfalls are pointed out, saving the reader from experiencing them the hard way. A .NET expert and noted authority on component-oriented programming, Lowy uses his unique access to Microsoft technical teams to the best possible advantage, conveying detailed, insider information in easy-to-grasp, activity-filled language. This hands-on approach is designed to allow individuals to learn by doing

rather than just reading. Indeed, after digesting *Programming .NET Components, Second Edition*, readers should be able to start developing .NET components immediately. *Programming .NET Components, Second Edition* is the consummate introduction to the Microsoft .NET Framework--the technology of choice for building components on Windows platforms. From its many lessons, tips, and guidelines, readers will learn how to use the .NET Framework to program reusable, maintainable, and robust components. Following in the footsteps of its best-selling predecessor, *Programming .NET Components, Second Edition* has been updated to cover .NET 2.0. This invaluable resource is targeted at anyone who develops complex or enterprise-level applications with the .NET platform--an ever-widening market. This book is a step-by-step, practical tutorial with a simple approach to help you build RESTful web applications and services on the .NET framework quickly and efficiently. This book is for ASP.NET web developers who want to explore REST-based services with C# 5. This book contains many real-world code examples with explanations whenever necessary. Some experience with C# and ASP.NET 4 is expected. Learn how to develop robust, Web-enabled and Microsoft Windows-based applications by taking advantage of C# and the Microsoft .NET Framework. The Microsoft .NET initiative builds on industry standards to make interoperable software services available anywhere, on any device, over the Internet. Behind the initiative is the Microsoft .NET Framework, which combines a managed run-time environment with one of the richest class libraries ever invented to make building and deploying Web-enabled applications easier than ever. Find out how to leverage the full power of the .NET Framework with this definitive, one-stop resource, written by a leading authority in his trademark easy-to-follow, conversational style. You'll learn about the key programming models embodied in the .NET Framework, including Windows(R) Forms, Web Forms, and XML Web services. And you'll benefit from a wealth of how-to examples, code samples, and complete working programs in C#. A software architect's digest of core practices, pragmatically applied Designing effective architecture is your best strategy for managing project complexity--and

improving your results. But the principles and practices of software architecting—what the authors call the “science of hard decisions”—have been evolving for cloud, mobile, and other shifts. Now fully revised and updated, this book shares the knowledge and real-world perspectives that enable you to design for success—and deliver more successful solutions. In this fully updated Second Edition, you will:

- Learn how only a deep understanding of domain can lead to appropriate architecture
- Examine domain-driven design in both theory and implementation
- Shift your approach to code first, model later—including multilayer architecture
- Capture the benefits of prioritizing software maintainability
- See how readability, testability, and extensibility lead to code quality
- Take a user experience (UX) first approach, rather than designing for data
- Review patterns for organizing business logic
- Use event sourcing and CQRS together to model complex business domains more effectively
- Delve inside the persistence layer, including patterns and implementation.

This book is for anyone who wants to learn how to build rich and interactive Microsoft ASP.NET web sites. With the knowledge you gain from this book, you create a great foundation to build any type of web site, ranging from simple hobby-related web sites to sites you may be creating for commercial purposes. Using this book’s step-by-step format you’ll learn to:

- Obtain, install, and customize Visual Web Developer (VWD) 2008
- create a new web site and how to add new pages to it.
- use the numerous tools in VWD to create HTML and ASP.NET pages
- use the VWD tools and CSS, the language that is used to format web pages
- What ASP.NET server controls are, what they are used for, and how to use them
- program web pages Visual Basic or C#
- create consistent-looking pages through the use of master pages, skins, and themes
- build the navigation structure of your site
- create and use User Controls and enhance them to repeat content like menus and banners
- accept, validate, and process user input and send e-mail from your ASP.NET web application
- create good looking, flicker free web page interaction with ASP.NET Ajax
- the basics of SQL, the language used access and alter data in a database
- use the database tools found in Visual Web Developer
- use the ASP.NET data controls to create an interface for

your users to interact with your application’s data use LINQ to SQL to access SQL Server databases without writing a lot of manual code

- change the visual appearance of your data through the use of control styles
- interact with the data-bound controls and speed up your application
- use the security ASP.NET features to create user accounts, distinguish between anonymous and logged on users, and manage the users in your system
- create personalized web pages with content targeted at individual users
- find and fix problems with VWD debugging tools
- deploy and run your final web site

"Microsoft Certified Professional Developer"—Cover. Get expert guidance on patterns—simple, proven mechanisms by which software professionals can share important architectural tradeoffs and design decisions—and help reduce the complexity of building high-performance, enterprise-class business solutions. Focusing on architectural, design, and implementation patterns for Microsoft .NET, this guide captures the knowledge of seasoned developers and shares their time-tested patterns and best practices. Developers and architects learn how to use individual patterns for specific technical scenarios, as well as how to combine patterns to build more complex solutions. All PATTERNS & PRACTICES guides are reviewed and approved by Microsoft engineering teams, consultants, partners, and customers—delivering accurate, real-world information that’s been technically validated and tested. 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 Dig into LINQ -- and transform the way you work with data. With LINQ, you can query data from a variety of sources -- including databases, objects, and XML files -- directly from Microsoft Visual Basic or C#. Guided by data-access experts who've worked in depth with LINQ and the Microsoft development teams, you'll learn how .NET Framework 4 implements LINQ, and how to exploit it. Clear examples show you how to deliver your own data-access solutions faster and with leaner code. Discover how to: Use LINQ to query databases, object collections, arrays, XML, Microsoft Excel files, and other sources Apply LINQ best practices to build data-enabled .NET applications and services Manipulate data in a relational database with ADO.NET Entity Framework or LINQ to SQL Read, write, and manage XML content more efficiently with LINQ to XML Extend LINQ to support additional data sources by creating custom operators and providers Examine other implementations, such as LINQ to SharePoint Use LINQ within the data, business, and service layers of a distributed application Get code samples on the Web Take Web Application Programming to a Whole New Level Microsoft's .NET Framework means enormous changes for Web programming. Using Visual Studio's ASP.NET and VB.NET, and a host of established and up-and-coming Internet technologies, you can build cleaner, more powerful Web applications, and you can do it more quickly than ever before. Mastering ASP.NET with VB.NET is packed with the vital information you need to get started and build the skills to develop the new generation of dynamic, easy-to-maintain web sites. Coverage includes: * Using HTML and CSS effectively * Creating code-behind classes * Making effective use of intrinsic objects * Handling files * Sending email

* Writing a Windows service * Communicating with other Web Forms * Communicating with databases * Using XML namespace objects * Performing transforms with XSLT and XHTML * Creating user controls * Creating custom controls * Writing dynamic client-side code * Using DHTML appropriately * Creating Web Services * Writing applications that use Web Services Practical Software Architecture Solutions from the Legendary Robert C. Martin ("Uncle Bob") 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. bull; The WinForms team at Microsoft is praising Sells as a definitive authority on the subject bull; The content and structure are

based on years of experience both building apps with WinForms as well as teaching other developers about WinForms bull; Chris Sells is widely revered in the programming community, and has been named by Microsoft as one of eight "Software Legends" * Coverage of all three significant .NET code generation mechanisms: Manual code generation, XSL/XML and CodeDom. * Includes a database metadata extraction tool based on SQL-92 standards. * Real solutions to the problem of protecting handcrafted code across regeneration. * Covers code generation in the broader picture of how applications are developed. * Includes real world samples for a complete middle tier and simple User Interface. Grasp the basic concepts that drive all Microsoft .NET-based languages—and prepare yourself to learn .NET programming. If you have absolutely no previous experience, no problem—simply start here! This ebook provides the foundation for all other .NET programming language books in the Start Here! series. You'll explore programming concepts and techniques with clear explanations, easy-to-follow examples, and exercises. It's the perfect reference for understanding how computer programs work. Delve into object-oriented concepts such as properties, methods, and events Discover what multiprocessing is—and how it's changing computing Examine how programs store data in files, object stores, and databases Explore controls, such as labels, text boxes, menus, and scroll bars Learn how programming environments help you design and run programs Get an extensive glossary of key programming terms Explains how COM and COM+ fit into the .NET architecture, covering topics including COM and .NET components, programming, and interoperability. Think Microsoft .NET will provide the "big .NET picture" to help both developers and IT decision-makers decide whether they should explore .NET further. It is not a how-to book and isn't code-laden. The reader will take away a deep understanding of what .NET is and an understanding of the .NET Framework. This knowledge will provide an orientation and give them enough information to make a sound decision on whether or not they want to use .NET in their IT department or development future. Bart A. DePetrillo is the co-founder of Newtelligence AG, a German company specializing in application development, consulting, and training for

.NET technologies. He is also the author of technical educational materials for Microsoft and the ".NET Initiative." His company has presented at the Microsoft .NET Technical Summit, Systems 2000 Conference, SIGS/101 Component Development 2000, and Microsoft TechEd 2000. The ultimate programming guide to ASP.NET 4.5, by popular author and Microsoft MVP Imar Spaanjaars Updated for ASP.NET 4.5, this introductory book is filled with helpful examples and contains a user-friendly, step-by-step format. Written by popular author and Microsoft ASP.NET MVP Imar Spaanjaars, this book walks you through ASP.NET, Microsoft's technology for building dynamically generated web pages. This edition retains the highly accessible approach to building the Planet Wrox website example, an online community site featuring product reviews, picture sharing, bonus content for registered users, and more. Contains the comprehensive guide to the latest technology additions to ASP.NET 4.5 Shows how to build basic ASP.NET web pages and configure their server Includes information on how to add features with pre-built server controls Reveals how to design pages and make them consistent Contains the information needed for getting user input and displaying data Beginning ASP.NET 4.5 in C# and VB uses Spaanjaars's distinct writing style to put you at ease with learning ASP.NET 4.5. Readers will maximize their performance on the MCPD Exam 70-519 and sharpen on-the-job skills with the help of this official Microsoft study guide. This certification exam measures the ability to develop and implement XML Web Services and server components using Visual C# and the Microsoft .NET Framework. This exam, released in September 2002, counts as a core credit toward the new MCAD (Microsoft Certified Application Developer) certification as well as a core credit toward the new MCS D .NET track. Readers preparing for this exam find our Training Guide series to be the most successful self-study tool in the market. This book is their one-stop shop because of its teaching methodology, the accompanying PrepLogic testing software, and superior Web site support at quepublishing.com. The Student's Essential Guide to .NET provides a clear and simple overview of Microsoft's .NET technologies. It is aimed at second and third year

undergraduate students and postgraduate students on Computing or Computer Science courses who are required to look at a modern operating system, (Microsoft Windows 9x, Nt 2000 or XP) and to design and code simple or even not so simple examples. The approach is based upon the student's learning the technology of .NET through examples using the supported languages C#, VB and C++. The examples are based on fun, familiar games, and students are encouraged to review reference material to refine their skills on key aspects of the architecture. Review questions and worked examples enhance the learning process and the material is supported by the author's website, which contains extensive ancillary material. * Student-focused treatment with many examples and exercises, together with solutions * Integrates the use of .NET with the supported languages C#, VB and C++ * Authors supporting website contains solutions, source code and other extras The practical guide to C# .NET development for experienced programmers. Running case study covers the entire .NET development process. .NET attributes, collections, threading, security, versioning, remoting, and more. Put .NET collections to work-and manage issues with GUI data binding, threading, data querying, and storage. Led by a data collection expert, you'll gain task-oriented guidance, exercises, and extensive code samples to tackle common problems and improve application performance. This one-stop reference is designed for experienced Microsoft Visual Basic® and C# developers-whether you re already using collections or just starting out. An outstanding author team presents the ultimate Wrox guide to ASP.NET MVC 4 Microsoft insiders join giants of the software development community to offer this in-depth guide to ASP.NET MVC, an essential web development technology. Experienced .NET and ASP.NET developers will find all the important information they need to build dynamic, data-driven websites with ASP.NET and the newest release of Microsoft's Model-View-Controller technology. Featuring step-by-step guidance and lots of code samples, this guide gets you started and moves all the way to advanced topics, using plenty of examples. Designed to give experienced .NET and ASP.NET programmers everything needed to work with the newest

version of MVC technology Expert author team includes Microsoft ASP.NET MVC insiders as well as leaders of the programming community Covers controllers, views, models, forms and HTML helpers, data annotation and validation, membership, authorization, security, and routing Includes essential topics such as Ajax and jQuery, NuGet, dependency injection, unit testing, extending MVC, and Razor Includes additional real-world coverage requested by readers of the previous edition as well as a new case study example chapter "The guide is intended to serve as a practical and convenient overview of, and reference to, the general principles of architecture and design on the Microsoft platform and the .NET Framework". Architect and design highly scalable, robust, clean and highly performant applications in .NET Core About This Book Incorporate architectural soft-skills such as DevOps and Agile methodologies to enhance program-level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book Who This Book Is For This book is for experienced .NET developers who are aspiring to become architects of enterprise-grade applications, as well as software architects who would like to leverage .NET to create effective blueprints of applications. What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM tools, application insights, and their usage to monitor performance, testability, and optimization tools in an enterprise Explore various authentication models such as social media-based authentication, 2FA and OpenID Connect, learn authorization techniques Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers Gain knowledge about the recent market trends and practices and how they can be achieved with .NET Core and Microsoft tools and technologies In Detail If you want to design and develop enterprise applications using .NET Core as the development framework and learn about industry-wide best practices and guidelines, then this book is for you. The book starts with a

brief introduction to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you about the types of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques, such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and

usage of the emerging fields, such as DevOps, BigData, architectural practices, and Artificial Intelligence. Style and approach Filled with examples and use cases, this guide takes a no-nonsense approach to show you the best tools and techniques required to become a successful software architect. Build robust, scalable ASP.NET applications quickly and easily. If you're simply curious about what .NET offers, this book provides a strong overview of the .NET Framework and the C# and Visual Basic .NET languages, helping you to assess these new technologies through the lens of Visual FoxPro. If you're already "sold" and are ready to learn specifics about how to use .NET in your software development projects, this book provides plenty of "how to", "step-by-step" and "best practices" information that will help you climb the .NET learning curve and get up and running quickly.