



Best Practices for **ASP.NET CORE** Application Development

Asp Core Application Development Building An

Shasha Hu

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

Asp Core Application Development Building An :

ASP.NET Core Application Development James Chambers,David Paquette,Simon Timms,2016-11-29 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Through four complete sprints this book takes you through every step needed to build brand new cross platform web apps with ASP NET Core and make them available on the Internet You won t just master Microsoft s revolutionary open source ASP NET Core technology you ll learn how to integrate the immense power of MVC Docker Azure Web Apps Visual Studio and Visual Studio Code C JavaScript TypeScript and Entity Framework Working through the authors carefully designed sprints you ll start with a blank canvas move through software architecture and design adjusting to user feedback recovering from mistakes builds testing deployment maintenance refactoring and more Along the way you ll learn techniques for delivering state of the art software to users more rapidly and repeatably than ever before ASP.NET Core Application Development James Chambers,David Paquette,Simon Timms,2017 **Building Web APIs with ASP.NET Core** Valerio De Sanctis,2023-05-30 Building Web APIs with ASP NET Core is a practical beginner s guide to creating your first web APIs using ASP NET Core In it you ll develop an API that feeds web based services including websites and mobile apps for a board games application The book is cleverly structured to mirror a real world development project with each chapter introducing a new feature request You ll build your API with an ecosystem of ASP NET Core tools that help simplify everything from setting up your data model to generating documentation **Asp.net Core Application Development** Jonas Fagerberg,2017-07-12 In ASP NET Core seasoned authors Simone Chiaretta and Ugo Lattanzi update you on all the advances provided by Microsoft s landmark framework By learning the foundations of the library and understanding the new versions of ASP NET MVC and Web API you ll be equipped with everything you need to build NET web applications on Windows Mac and Linux This updated and expanded second edition of Book provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business *Enterprise Application Development with C# 10 and .NET 6* Ravindra Akella,Arun Kumar Tamirisa,Suneel Kumar Kunani,Bhupesh Guptha Muthiyalu,2022-06-17 A comprehensive guide to every important component of C and NET 6 required to build robust enterprise web applications Key Features Explore the advanced features of C and NET 6 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 Building production ready enterprise applications can be a challenging task due to the overabundance of tools and their different versions that make app development complex This book simplifies the process

with an end to end road map for building enterprise applications from scratch using the latest features of NET Core 6 and C 10 Throughout the book you ll work on creating an enterprise app 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 The book then shows you how the latest Microsoft Visual Studio and C 10 help you simplify developer tasks and shares tips and tricks in Visual Studio to improve your productivity 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 6 and deploy them to the cloud while working with various cloud components using Azure What you will learn Design enterprise apps by making the most of the latest features of NET 6 Discover different layers of an app such as the data layer API layer and web layer Explore end to end architecture by implementing an enterprise web app using NET and C 10 and deploying it on Azure Focus on the core concepts of web application development and implement them in NET 6 Integrate the new NET 6 health and performance check APIs into your app Explore MAUI and build an application targeting multiple platforms Android iOS and Windows Who this book is for If you are a developer architect or senior programmer this book will show you how to leverage the features of NET 6 and the C language as well as help you grasp essential techniques to build your skills ASP.NET Core: Cloud-ready, Enterprise Web Application Development ,2017

Enterprise Application Development with C# 9 and .NET 5 Ravindra Akella,Arun Kumar Tamirisa,Suneel Kumar Kunani,Bhupesh Guptha Muthiyalu,2021-03-19 Become a professional NET developer by learning expert techniques for building enterprise grade applications Key FeaturesExplore the advanced features of C and NET 5 to enhance your code and productivityFollow clear and easy instructions for building an end to end enterprise applicationLearn how to build scalable web applications and host them on the cloudBook 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 nally 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 will 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 [ASP.NET Core 8 and Angular](#) Valerio De Sanctis, 2024-02-28 Build robust scalable web applications using ASP.NET Core 8 Angular and Entity Framework Core Purchase of the print or Kindle book includes a free PDF eBook Key Features Combine ASP.NET Core and Angular to build highly versatile web applications 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 If you want to learn how to use ASP.NET Core with Angular effectively this hands on guide is for you Improve the way you create debug and deploy web applications while keeping up to date with the latest developments in .NET 8 and modern Angular including .NET Minimal APIs and the new Angular standalone API defaults You will begin by setting up SQL Server 2022 and building a data model with Entity Framework Core You will progress to fetching and displaying data handling user input with Angular reactive forms and implementing front end and back end validators for maximum effect After that you will perform advanced debugging and explore unit testing features with xUnit for .NET and Jasmine and Karma for Angular You will use Identity API endpoints in ASP.NET Core and functional route guards in Angular to add authentication and authorization to your apps Finally you will learn how to deploy to Windows Linux and Azure 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 Explore the new Angular and ASP.NET Core template with Visual Studio 2022 Use modern interfaces and patterns such as the HTML5 pushState API webhooks and UI data bindings Add real time capabilities to Angular apps with SignalR and gRPC Implement authentication and authorization using JWTs Perform DBMS structured logging using providers such as Serilog Convert a standard web application to a progressive web application PWA Deploy an Angular app to Azure Static Web Apps Add GraphQL support to back end and front end using HotChocolate and Apollo Angular Who this book is for This book is for developers who have some familiarity with ASP.NET Core and Angular and want to learn how to use them effectively together **.NET MAUI Cookbook** Alexander Russkov, 2024-12-13 Build robust cross

platform apps with practical recipes covering UI best practices and performance optimization to authentication offline data synchronization and AI integration

Key Features Follow step by step recipes with best practices for a performant UI and structured business logic Perform essential modern tasks like integration with Web API Google OAuth SignalR and AI Check out additional sections for deep understanding common pitfalls and GitHub examples Purchase of the print or Kindle book includes a free PDF eBook

Book Description Think about how much time you usually spend building an app in a technology you're still mastering grasping new concepts navigating roadblocks and even rewriting entire modules as you learn This book saves you that time helping you create a modern NET MAUI application like a pro The chapters address a wide range of tasks and concepts essential for real world apps including UI best practices and advanced tips MVVM dependency injection performance and memory profiling Since real world applications often go beyond frontend development this book also explores integration with backend services for authentication data processing synchronization and real time updates Additionally you'll learn to implement multiple AI integration strategies all without any prior machine learning experience Mastery comes with practice so the book is organized with step by step recipes each tackling a specific task Each recipe includes detailed explanations to help you apply what you're learning to your own unique projects By the end of this book you'll have developed the skills to build high performance interactive cross platform applications with NET MAUI saving valuable time on your future projects

What you will learn Discover effective techniques for creating robust adaptive layouts Leverage MVVM DI cached repository and unit of work patterns Integrate authentication with a self hosted service and Google OAuth Incorporate session management and role based data access Tackle real time updates chunked file uploads and offline data mode Explore AI integration strategies from local device to cloud models Master techniques to fortify your app with platform specific APIs Identify and eliminate performance and memory issues

Who this book is for This book is for intermediate developers familiar with NET MAUI basics and is perfect for those looking to deepen their understanding and refine their skills for creating cross platform applications and delivering top quality applications The book offers advanced techniques and practical examples for handling real world development challenges effectively

Web API Development with ASP.NET Core 8 Xiaodi Yan, 2024-04-05

Develop web API applications using design patterns advanced customization and cutting edge technologies such as SignalR gRPC and GraphQL while leveraging powerful cloud platforms and tools to accelerate development

Key Features Gain proficiency in building modern ASP NET Core web API applications Develop the skills to effectively test debug and secure your web API applications Streamline development workflows and boost productivity with cloud computing platforms and industry standard CI CD tools Purchase of the print or Kindle book includes a free PDF eBook

Book Description Web API applications have become increasingly significant in recent years fueled by the ever accelerating pace of technological advancements However with this rapid evolution comes the need to create web API apps that are not only functional but also adaptable maintainable and scalable to meet the demands of users and businesses alike This book

draws from the author's immense technical expertise and decades of experience in software development to help you address this challenge head on equipping you with the knowledge and skills required to develop web API apps from scratch By providing a deeper understanding of the various protocols implemented by ASP NET Core including RESTful SignalR WebSocket gRPC and GraphQL supplemented by practical examples and optimization techniques such as using middleware testing caching and logging this book offers invaluable insights for both newcomers as well as seasoned developers to meet modern web development requirements Additionally you'll discover how to use cloud platforms such as Azure and Azure DevOps to enhance the development and operational aspects of your application By the end of this book you'll be fully prepared to undertake enterprise grade web API projects with confidence harnessing the latest advancements in ASP NET Core 8 to drive innovation What you will learn Build a strong foundation in web API fundamentals Explore the ASP NET Core 8 framework and other industry standard libraries and tools for high performance scalable web APIs Apply essential software design patterns such as MVC dependency injection and the repository pattern Use Entity Framework Core for database operations and complex query creation Implement robust security measures to protect against malicious attacks and data breaches Deploy your application to the cloud using Azure and leverage Azure DevOps to implement CI CD Who this book is for This book is for developers who want to learn how to build web APIs with ASP NET Core and create flexible maintainable scalable applications with NET platform Basic knowledge of C NET and Git will assist with understanding the concepts more easily

.NET MAUI Cross-Platform Application Development Roger Ye, 2023-01-27 Build apps for Android iOS macOS and Windows using Microsoft's NET Multi platform App UI and Blazor Key Features Get familiar with Microsoft's UI toolkit to build amazing interfaces for iOS Android Windows and macOS Build a cross platform password manager based on the famous Windows app KeePass Explore NET MAUI development and Hybrid app development using Blazor Book Description An evolution of Xamarin Forms NET Multi platform App UI NET MAUI is a cross platform framework for creating native mobile and desktop apps with C and XAML Using NET MAUI you can develop apps that'll run on Android iOS macOS and Windows from a single shared code base This step by step guide provides a comprehensive introduction to those who are new to NET MAUI that will have you up to speed with app development using NET MAUI in no time The book begins by showing you how to develop a cross platform application using NET MAUI and then helps you build an app throughout the chapters You'll gain all the knowledge needed to create a cross platform application for Android iOS the mac OS and Windows from a single shared code base using NET MAUI As you advance you'll get to grips with the entire application development lifecycle from design and implementation through to deployment to the app store through the development of a password manager app using KeePassLib The concluding chapters will teach you how to integrate the latest frontend technology into your app through NET MAUI Blazor By the end of this book you'll have learned how to develop your own cross platform applications using NET MAUI What you will learn Discover the latest features of NET 6 that can be used in mobile and desktop app

development Find out how to build cross platform apps with NET MAUI and Blazor Implement device specific features using NET MAUI Essentials Integrate third party libraries and add your own device specific features Discover NET class unit test using xUnit net and Razor components unit test using bUnit Deploy apps in different app stores on mobile as well as desktop Who this book is for This book is an entry level NET MAUI book for mobile developers interested in cross platform application development with working experience of the NET Core framework as well as fresh or junior engineers who ve just begun their career in mobile app development Native application developers desktop or Xamarin developers who want to migrate to NET MAUI will also benefit from this book Basic knowledge of modern object oriented programming language such as C Java or Kotlin is assumed

Creating ASP.NET Core Web Applications Dirk Strauss, 2021-03-20 Design and develop an ASP NET Core web application using NET Core 3 0 This book shows you how to publish a web application to a web server and connect the published web application to a production database Creating ASP NET Core Web Applications starts by setting up the Visual Studio project where you will learn about Razor pages Entities and creating a data service You will create models along with methods to use a query string and handle bad requests Modifying data with Tag helpers is discussed as well as installation of Entity Framework working with database migrations and implementing a data access service You will learn how to use layout pages and sections with Partial Views _ViewImports and _ViewStart files You also will create custom middleware and log application events You will be able to deploy the web application as well as connect it to a SQL Server database What You Will Learn Work with models Modify data Work with EF Core and SQL Server Work with Razor pages and Partial Views Use separate scripts for production vs development Trace client side errors using Chrome Developer tools Create cascading style sheets CSS with Sassy CSS SCSS Explore middleware Deploy your web application to IIS Who This Book Is For Software developers on the NET stack who want to create ASP NET Core web applications

Beginning C# 7 Programming with Visual Studio 2017 Benjamin Perkins, Jacob Vibe Hammer, Jon D. Reid, 2018-04-17 Easily get started programming using the ultra versatile C 7 and Visual Studio 2017 Beginning C 7 Programming with Visual Studio 2017 is the beginner s ultimate guide to the world s most popular programming language Whether you re new to programming entirely or just new to C there has never been a better time to get started The new C 7 and Visual Studio 2017 updates feature a number of new tools and features that streamline the workflow simplify the code and make it easier than ever to build high quality apps This book walks you through everything you need to know starting from the very basics to have you programming in no time You ll learn about variables flow control and object oriented programming then move into Web and Windows programming as well as databases and XML The companion website provides downloadable code examples and practical Try It Out sections provide explicit step by step instructions for writing your own useful customizable code C 7 can be used to build Windows applications program Windows 10 and write Web apps when used alongside ASP NET With programming skills becoming de rigueur in fields far beyond the tech world C 7 is a great place to start building

versatile helpful skills This book gets you started quickly and easily with instruction from a master team of C programmers Learn how to program using the world s leading programming language Build smarter faster apps using the latest features in C 7 and Visual Studio 2017 Find and fix bugs sooner saving headaches down the line Integrate with all NET Core Azure applications cloud services Docker containers and more The world of programming can seem intimidating to a beginner and the prospect of learning a whole new language can seem daunting Beginning C 7 Programming with Visual Studio 2017 demystifies the process and shows you how to bring your ideas to life

ASP.NET Core: Cloud-ready, Enterprise Web Application Development Mugilan T. S. Ragupathi, Valerio De Sanctis, James Singleton, 2017-06-09 Create fast scalable and high performance applications with C and ASP NET Core About This Book Get first principle coverage of the latest ASP NET Core MVC Find out how to bring together the capabilities and features of both Angular 2 and ASP NET Core Discover common areas you might encounter performance problems with and areas you don t need to worry about Who This Book Is For This book is for developers who want to learn to build web applications using ASP NET Core those who want to make a career building web applications using Microsoft technology and those who are working on other web frameworks and want to learn ASP NET Core What You Will Learn Get to know the concepts of ASP NET MVC Create a Controller with action methods Build a view using several features of the Razor View engine Construct a Model for ASP NET Core MVC application Find out how the features of ASP NET Core and Angular 2 perfectly complement each other Handle requests and actions using server side and client side Routing Create a Data Model using Entity Framework Core Learn how to use Angular 2 components and master directives Improve performance at the network level and I O level and how to optimize the application as a whole Monitor performance as part of Continuous Integration and regression testing In Detail ASP NET Core is the new open source and cross platform web application framework from Microsoft ASP NET Core MVC helps you build robust web applications using the Model View Controller design This guide will help you in building applications that can be deployed on non Windows platforms such as Linux Starting with an overview of the MVC pattern you will quickly dive into the aspects that you need to know to get started with ASP NET You will learn about the core architecture of model view and control Integrating your application with Bootstrap validating user input interacting with databases and deploying your application are some of the things that you will learn to execute with this fast paced guide You will test your knowledge as you build a fully working sample application using the skills you ve learned throughout the book Moving forward this guide will teach you to combine the impressive capabilities of ASP NET Core and Angular 2 Not only will you learn how Angular 2 can complement your NET skills and toolkit you ll also learn everything you need to build a complete dynamic single page application Find out how to get your data model in place and manage an API before styling and designing your frontend for an exceptional user experience You will find out how to optimize your application for SEO identify and secure vulnerabilities and how to successfully deploy and maintain your application From here you will delve into the latest frameworks and

software design patterns to improve your application performance The course offers premium highly practical content on the recently released ASP NET Core and includes material from the following Packt books Learning ASP NET Core MVC Programming ASP NET Core and Angular 2 and ASP NET Core 1 0 High Performance Style and approach This learning path takes a first principles approach to help you understand and implement ASP NET MVC solutions **Asp.net Core Application Development** James Chambers,David Paquette,2017-07-03 Search is everywhere yet it is one of the most misunderstood functionalities of the IT industry In Apache Solr author Xavier Morera guides you through the basics of this highly popular enterprise search tool You ll learn how to set up an index and how to make it searchable then query it with a simple enterprise search Explanations for precision and recall are also included to help you ensure that relevant accurate results have been returned Custom UIs using SolrItas and SolrNet are also covered This updated and expanded second edition of Book provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business **Professional Visual Studio 2017** Bruce Johnson,2017-11-06 Skip the basics and delve right into Visual Studio 2017 advanced features and tools Professional Visual Studio 2017 is the industry favorite guide to getting the most out of Microsoft s primary programming technology From touring the new UI to exploiting advanced functionality this book is designed to help professional developers become more productive A unique IDE centric approach provides a clear path through the typical workflow while exploring the nooks and crannies that can make your job easier Visual Studio 2017 includes a host of features aimed at improving developer productivity and UI and this book covers them all with clear explanation new figures and expert insight Whether you re new to VS or just upgrading this all inclusive guide is an essential resource to keep within arm s reach Visual Studio 2017 fixes the crucial issues that kept professionals from adopting VS 2015 and includes new features and tools that streamline the developer s job This book provides the straightforward answers you need so you can get up to speed quickly and get back to work Master the core functionality of Visual Studio 2017 Dig into the tools that make writing code easier Tailor the environment to your workflow not the other way around Work your way through configuration debugging building deployment customizing and more Microsoft is changing their release cadence it s only been about two years since the last release so developers need to quickly get a handle on new tools and features if they hope to remain productive The 2017 release is designed specifically to help you get more done in less time with greater accuracy and attention to detail If you re ready to get acquainted Professional Visual Studio 2017 is your ideal guide Modern Full-Stack Web Development with ASP.NET Core Alexandre Malavasi,2025-02-27 Master APIs authentication cloud deployment and DevOps processes to create full stack web apps with ASP NET Core Blazor React

Angular and Vue Free with your book DRM free PDF version access to Packt's next gen Reader Key Features Integrate Angular Vue.js and React frameworks into ASP.NET Core projects following frontend development best practices Use ASP.NET Core to its full potential to create a versatile backend layer based on RESTful APIs Secure your application against threats and vulnerabilities in a time efficient way Purchase of the print or Kindle book includes a free PDF eBook Book Description In the ASP.NET Core ecosystem choosing the right JavaScript framework is key to addressing diverse project requirements Written by a four time Microsoft MVP with 16 years of software development experience this book is your comprehensive guide to mastering full stack development combining ASP.NET Core's robust backend capabilities with the dynamic frontend power of Vue.js Angular and React This book uses ASP.NET Core to teach you best practices for integrating modern JavaScript frameworks and creating responsive high performance applications that deliver seamless client server interactions and scalable RESTful APIs In addition to building expertise in ASP.NET Core's core strengths such as API security architecture principles and performance optimization the chapters will help you develop the essential frontend skills needed for full stack development Sections on Blazor take a C# based approach to creating interactive UIs showcasing ASP.NET Core's flexibility in handling both server and client side needs By the end of this book you will have a complete toolkit for designing deploying and maintaining complex full stack applications along with practical knowledge of both backend and frontend development What you will learn Explore ASP.NET Core basics including its architecture components and differences from previous versions Understand advanced topics like dependency injection middleware configuration and logging in depth Develop complex server side web applications using ASP.NET Core Grasp the basics of Blazor and see how it enables you to build interactive web UIs using C# Create simple client side applications using Blazor WebAssembly Integrate JavaScript frameworks with ASP.NET Core for full stack web development Who this book is for This book is for beginners in web development and anyone looking to build a strong foundation in ASP.NET Core as well as gain essential knowledge of JavaScript frameworks like Angular React and Vue.js Whether you're new to web development or have some experience this book offers a project based hands on approach to mastering ASP.NET Core as the backbone of full stack applications Alongside ASP.NET Core you'll develop basic skills in modern JavaScript frameworks and learn to integrate them effectively to build dynamic robust web applications from the ground up

[Programming Microsoft ASP.NET 2.0 Core Reference](#) Dino Esposito, 2006 Build your expertise as you move beyond the basics and delve into the core topics of programming with ASP.NET 2.0 Useful to both experienced developers and those developing new skills this ultimate reference is packed with expert guidance hands on programming instruction and practical examples to help you advance your mastery of developing applications for the Web Discover how to Author rich visually consistent pages and manage layout with themes and Master pages Create personalized pages that persist user preferences Retrieve modify and manage data with Microsoft ADO.NET Configure the HTTP pipeline to serve ASP.NET 2.0 pages Control program flow by tracing and

handling exceptions Design caching layers and learn state management techniques to optimize application performance Manage users with membership control registration and authentication capabilities Build real world data access layers using common design patterns Use custom collections with data source controls Learn the internals of grid controls PLUS Get code samples on the Web *Professional ASP.NET 4.5 in C# and VB* Jason N. Gaylord,Christian Wenz,Pranav Rastogi,Todd Miranda,Scott Hanselman,2013-05-06 The all new approach for experienced ASP NET professionals ASP NET is Microsoft s technology for building dynamically generated web pages from database content Originally introduced in 2002 ASP NET has undergone many changes in multiple versions and iterations as developers have gained a decade of experience with this popular technology With that decade of experience this edition of the book presents a fresh new overhauled approach A new focus on how to build ASP NET sites and applications relying on field tested reliable methods Integration of One ASP NET philosophy treating ASP NET Web Forms and ASP NET MVC as equal tools each with their proper time and place Coverage of hot new ASP NET 4 5 additions such as the Web API Websockets and HTML5 CSS3 use in layout but only to the extent that the tools themselves are practical and useful for working ASP NET developers *Professional ASP NET 4 5 in C and VB* is an essential tool for programmers who need to be productive and build reliably performing sites with the latest ASP NET Framework and Visual Studio **C# and .NET Core Test-Driven Development** Ayobami Adewole,2018-05-18 Learn how to apply a test driven development process by building ready C 7 and NET Core applications Key Features Create tests to quickly detect and resolve issues when writing portable code Uncover code integration issues that improve code quality using continuous integration Set up and use data driven unit testing to verify your code Book Description This book guides developers to create robust production ready C 7 and NET Core applications through the practice of test driven development process In C and NET Core Test Driven Development you will learn the different stages of the TDD life cycle basics of TDD best practices and anti patterns It will teach you how to create an ASP NET Core MVC sample application write testable code with SOLID principles and set up a dependency injection for your sample application Next you will learn the xUnit testing framework and learn how to use its attributes and assertions You ll see how to create data driven unit tests and mock dependencies in your code You will understand the difference between running and debugging your tests on NET Core on LINUX versus Windows and Visual Studio As you move forward you will be able to create a healthy continuous integration process for your sample application using GitHub TeamCity Cake and Microsoft VSTS By the end of this book you will have learned how to write clean and robust code through the effective practice of TDD set up CI build steps to test and build applications as well as how to package application for deployment on NuGet What you will learn Write flexible maintainable and verifiable code for NET Core Write testable code using SOLID principles and dependency injections Recognize the characteristics of a good unit test Structure and group your unit test Use mock objects to handle dependencies Set up an end to end continuous integration process Who this book is for This book is for NET developers who would like to build efficient

applications by implementing principles of test driven development C programming and working knowledge of VS is assumed

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Asp Core Application Development Building An Introduction

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