

# ASP.NET Core Application Development

Building an application in four sprints



James Chambers David Paquette Simon Timms

## **Asp Core Application Development Building An**

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#### Asp Core Application Development Building An:

**ASP.NET Core Application Development** James Chambers, David Paguette, 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 **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 **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 Programming ASP.NET Core Dino Esposito, 2018-05-10 The complete pragmatic guide to building high value solutions with ASP NET Core Programming ASP NET Core is the definitive guide to practical web based application development with Microsoft s new ASP NET Core framework Microsoft MVP Dino Esposito introduces proven techniques and well crafted example code for solving real problems with ASP NET Core Step by step he guides you through using all key ASP NET Core technologies including MVC for HTML generation NET Core EF Core ASP NET Identity dependency injection and much more Esposito thoroughly covers ASP NET Core s cross platform capabilities and what s changed from older ASP NET versions but he doesn't stop there he offers a complete learning path for every developer who wants to build production solutions including mobile specific solutions Microsoft MVP Dino Esposito shows how to Create new projects and understand their structure Set up and use the familiar MVC application model in ASP NET Core Write controller class code to govern all stages of request processing Serve HTML from controllers or directly via Razor Pages Master the Razor language for quickly defining the layout of HTML views Manage cross cutting concerns such as global configuration data error and exception handling controller class design and dependency injection Secure applications with user authentication and ASP NET Core s policy based user authorization API Design for efficient data access and choose the right option for reading and writing data

Build ASP NET Core Web APIs that return JSON XML or other data Use data binding to programmatically update visual components with fresh information Build device friendly web views for iOS and Android Explore the radically new ASP NET Core runtime environment and Dependency Injection DI infrastructure ASP.NET Core: Cloud-ready, Enterprise Web .NET MAUI Cookbook Alexander Russkov, 2024-12-13 Build robust cross platform apps Application Development ,2017 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 DescriptionThink 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 C# 7.1 and .NET Core 2.0 - Modern Cross-Platform Development Mark J. Price, 2017-11-30 C 7 1 and NET Core 2 0 Modern Cross Platform Development Third Edition is a practical guide to creating powerful cross platform applications with C 7 and NET Core 2 0 About This Book Build modern cross platform applications with NET Core 2 0 Get up to speed with C and up to date with all the latest features of C 7 1 Start creating professional web applications with ASP NET Core 2 0 Who This Book Is For This book is targeted towards

readers who have some prior programming experience or have a science technology engineering or mathematics STEM background and want to gain a solid foundation with C and to be introduced to the types of applications they could build and will work cross platform on Windows Linux and macOS What You Will Learn Build cross platform applications using C 7 1 and NET Core 2 0 Explore ASP NET Core 2 0 and learn how to create professional websites services and applications Improve your application's performance using multitasking Use Entity Framework Core and LINQ to guery and manipulate data Master object oriented programming with C to increase code reuse and efficiency Familiarize yourself with cross device app development using the Universal Windows Platform Protect and manage your files and data with encryption streams and serialization Get started with mobile app development using Xamarin Forms Preview the nullable reference type feature of C 8 In Detail C 7 1 and NET Core 2 0 Modern Cross Platform Development Third Edition is a practical guide to creating powerful cross platform applications with C 7 1 and NET Core 2 0 It gives readers of any experience level a solid foundation in C and NET The first part of the book runs you through the basics of C as well as debugging functions and object oriented programming before taking a quick tour through the latest features of C 7 1 such as default literals tuples inferred tuple names pattern matching out variables and more After quickly taking you through C and how NET works this book dives into the NET Standard 2 0 class libraries covering topics such as packaging and deploying your own libraries and using common libraries for working with collections performance monitoring serialization files databases and encryption The final section of the book demonstrates the major types of application that you can build and deploy cross device and cross platform In this section you ll learn about websites web applications web services Universal Windows Platform UWP apps and mobile apps By the end of the book you ll be armed with all the knowledge you need to build modern cross platform applications using C and NET Style and approach This book takes a step by step approach and is filled with exciting projects and fascinating theory It uses three high impact sections to equip you with all the tools you ll need to build modern cross platform applications using C Building Web Applications with Visual Studio 2017 Philip Japikse, Kevin Grossnicklaus, Ben and NET Core 2 0 Dewey, 2017-07-08 Learn how to build web applications from three Microsoft MVPs After building the data application layer using Entity Framework Core and a RESTful service using ASP NET Core you will then build the client side web application three ways first using ASP NET Core then using Angular 2 and finally using React You will be able to compare and contrast these UI frameworks and select the best one for your needs NET Core is a complete rewrite of the popular NET and its related frameworks While many concepts are similar between NET Core and the NET 4 6 framework there are revolutionary changes as well including updates to Entity Framework Core and ASP NET Core The first section of this book covers the three main parts of building applications with C Entity Framework ASP NET Core Services and ASP NET Core Web Applications There is also an explosion in popularity of JavaScript frameworks for client side development and the authors cover two of the most popular UI frameworks Start with TypeScript for developing clean JavaScript along with a client side

build tool such as Gulp Grunt and WebPack Using the same data access layer and RESTful service from the NET Core application you can rebuild the UI using Angular 2 Then repeat the process using React for a true comparison of building client side applications using ASP NET Core Angular 2 and React What You ll Learn Understand the fundamentals of NET Core and what that means to the traditional NET developer Build a data access layer with Entity Framework Core a RESTful service with ASP NET Core MVC and a website with ASP NET Core MVC and Bootstrap Automate many build tasks with client side build utilities Who This Book Is For Intermediate to advanced NET developers .NET Web Development *Unleashed* Pasquale De Marco, 2025-07-17 In a rapidly evolving digital landscape businesses and organizations rely on robust and engaging web applications to connect with customers streamline operations and drive growth NET Web Development Unleashed is the ultimate guide for developers seeking to master the art of crafting dynamic and high performance web applications using ASP NET Core This comprehensive book takes you on a journey through the world of ASP NET Core web development providing a solid foundation in the core concepts tools and techniques Whether you re a seasoned professional seeking to expand your skillset or a novice developer eager to venture into the world of web development this book is your trusted companion With a focus on practical application NET Web Development Unleashed offers step by step tutorials real world examples and insightful case studies to reinforce your understanding of the concepts discussed You ll delve into the intricacies of C programming explore the architectural components of ASP NET Core and master the Model View Controller MVC design pattern Unlock the power of Razor Pages to create user friendly and responsive web pages and delve into the world of ASP NET Core Web API to construct powerful RESTful web services Discover the secrets of securing ASP NET Core applications implementing authentication and authorization mechanisms and employing best practices to safeguard your applications from potential vulnerabilities Optimize the performance of your web applications by leveraging caching strategies scaling techniques and continuous integration and deployment practices With NET Web Development Unleashed you ll gain the skills and knowledge necessary to create cutting edge web applications that captivate users and drive business success Join us on this exhilarating journey as we empower you to unlock the full potential of ASP NET Core and transform your web development skills Dive into the world of NET web development today and unlock a world of possibilities If you like this book write a review **Learn WinUI 3.0** Alvin Ashcraft, 2021-03-26 A beginner s guide to building Windows applications with WinUI for UWP and desktop applications Key FeaturesCreate modern Windows 10 applications and gain access to UI controls that were previously limited to UWP applicationsDiscover how to modernize your existing Win32 apps with a modern Windows 10 UILearn to embed a single page application SPA in a WinUI application with a web framework like BlazorBook Description WinUI 3 0 takes a whole new approach to delivering Windows UI components and controls and is able to deliver the same features on more than one version of Windows 10 Learn WinUI 3 0 is a comprehensive introduction to WinUI and Windows apps for anyone who is new to WinUI Universal Windows Platform UWP and XAML applications The

book begins by helping you get to grips with the latest features in WinUI and shows you how XAML is used in UI development You ll then set up a new Visual Studio environment and learn how to create a new UWP project Next you ll find out how to incorporate the Model View ViewModel MVVM pattern in a WinUI project and develop unit tests for ViewModel commands Moving on you ll cover the Windows Template Studio WTS new project wizard and WinUI libraries in a step by step way As you advance you ll discover how to leverage the Fluent Design system to create beautiful WinUI applications You ll also explore the contents and capabilities of the Windows Community Toolkit and learn to create a new UWP user control Toward the end the book will teach you how to build debug unit test deploy and monitor apps in production By the end of this book you ll have learned how to build WinUI applications from scratch and modernize existing WPF and WinForms applications using WinUI controls What you will learnGet up and running with WinUI and discover how it fits into the landscape of Project Reunion and Windows UI developmentBuild new Windows apps quickly with robust templatesDevelop testable and maintainable apps using the MVVM patternModernize WPF and WinForms applications with WinUI and XAML IslandsDiscover how to build apps that can target Windows and leverage the power of the webInstall the XAML Controls Gallery sample app and explore available WinUI controls Who this book is for This book is for anyone who wants to develop Windows applications with a modern user experience UX If you are familiar with UWP and WPF and are looking to enhance your knowledge of Windows development and modernize existing apps you will find this book useful Hands on experience with C and NET is expected but no prior knowledge of WinUI is required C# 7 and .NET: Designing Modern Cross-platform Applications Mark J. Price, Ovais Mehboob Ahmed Khan, 2018-12-21 Explore C and the NET Core framework to create applications and optimize them with ASP NET Core 2 Key FeaturesGet to grips with multi threaded concurrent and asynchronous programming in C and NET CoreDevelop modern cross platform applications with NET Core 2 0 and C 7 OCreate efficient web applications with ASP NET Core 2 Book Description C is a widely used programming language thanks to its easy learning curve versatility and support for modern paradigms. The language is used to create desktop apps background services web apps and mobile apps NET Core is open source and compatible with Mac OS and Linux There is no limit to what you can achieve with C and NET Core This Learning Path begins with the basics of C and object oriented programming OOP and explores features of C such as tuples pattern matching and out variables You will understand NET Standard 2 0 class libraries and ASP NET Core 2 0 and create professional websites services and applications You will become familiar with mobile app development using Xamarin Forms and learn to develop high performing applications by writing optimized code with various profiling techniques By the end of C 7 and NET Designing Modern Cross platform Applications you will have all the knowledge required to build modern cross platform apps using C and NET This Learning Path includes content from the following Packt products C 7 1 and NET Core 2 0 Modern Cross Platform Development Third Edition by Mark J PriceC 7 and NET Core 2 0 High Performance by Ovais Mehboob Ahmed KhanWhat you will learnExplore

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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 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 Framework Core in Action, Second Edition Jon P Smith, 2021-06-08 Entity Framework Core in Action Second Edition teaches you to write flawless database interactions for NET applications Following relevant examples from author Jon Smith s extensive experience you ll progress quickly from EF basics to advanced techniques In addition to the latest EF features this book addresses performance security refactoring and unit testing This updated edition also contains new material on NoSQL databases **Programming ASP.NET Core** Dino Esposito, 2018 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 **Learning ASP.NET Core MVC Programming** Mugilan T. S. Ragupathi, 2016-11-16 Learn the fundamentals of ASP NET MVC and build real world web applications using ASP NET Core MVC About This Book Get a first principles coverage of ASP NET MVC and the latest release Core This book is uniquely designed for developers who are looking to transition their skills into the NET development field The standalone chapter structure leaves you free to explore ASP NET MVC to immediately solve your pain points Who This Book Is For This book is for developers who want to learn to build web applications using ASP NET Core developers who want to make a career building web applications using Microsoft technology and developers who are working in Ruby on Rails or other web frameworks and want to learn ASP NET Core MVC No knowledge of the ASP NET platform or the NET platform is required Even though you do not need to have experience in C an understanding of the basic constructs loops conditionals classes and objects of any modern programming language would be helpful What You Will Learn Get to know the concepts of ASP NET MVC and build a new static web page using HTML CSS and jQuery Set up a development environment and run a sample application using the template Create a Controller with action methods Build a view using several features of the Razor View engine Construct a Model for ASP NET Core MVC application Devise a custom mechanism to provide maximum flexibility to your application through routing Validate the user input on the client side using jQuery Enhance your applications using Bootstrap Explore new configuration and deployment scenarios step by step guide to deploying ASP NET Core web application in Linux In Detail ASP NET Core MVC helps you build robust web applications using the Model View Controller design This guide will help you in building applications which can be deployed on non windows platforms such as Linux In today s age it is crucial that you possess the ability to separate the programming and business logic and this is exactly what ASP NET Core MVC application will help you achieve This version comes with a number of improvements that enable fast TDD friendly development to create sophisticated applications You would also learn

the fundamentals of Entity framework and on how to use the same in ASP NET Core web applications The book presents the fundamentals and philosophies of ASP NET Core Starting with an overview of the MVC pattern we quickly dive into the aspects that you need to know to get started with ASP NET You will learn about the core architecture of model view and control Integrating your application with Bootstrap validating user input interacting with databases and deploying your application are some of the things that you will be able to execute with this fast paced guide The end of the book will test your knowledge as you build a fully working sample application using the skills you ve learned throughout the book Style and approach This book takes a first principles approach to help you understand and implement ASP NET MVC solutions It is focused primarily on giving you practical skills rather than the old conventional theoretical teaching 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 FeaturesCustomize the default behavior of ASP NET Core to get the most out of the frameworkEnhance the app configuration change the default dependency injection and build your own tag helpersDiscover best practices for configuring ASP NET Core from user interface design to hosting it on platformsBook 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 5Understand 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 appsCreate various API output formats in your API driven projectsGet familiar with different hosting models for your ASP NET Core appDevelop custom routing endpoints and add third party endpointsConfigure WebHostBuilder effectively for your web applicationsWho 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

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