# Beginning ASP.NET 4 in C# 2010

Start your journey with the fundamentals of building ASPNET websites

Matthew MacDonald

Apress\*

# Beginning Asp Net 4 In C 2010

Nick Lecrenski, Doug Holland, Allen Sanders, Kevin Ashley

#### Beginning Asp Net 4 In C 2010:

**Beginning ASP.NET 4 in C# 2010** Matthew MacDonald, 2010-09-19 The most up to date and comprehensive introductory ASP NET book you ll find on any shelf Beginning ASP NET 4 in C 2010 guides you through Microsoft s latest technology for building dynamic web sites Learn how to build sophisticated web pages guickly and easily using the most powerful tools available Starting with the basics this book provides exhaustive coverage of ASP NET guiding you from your first steps right through to advanced techniques such as making database gueries from within a web page tuning your website for optimal performance and deploying your website to production servers Within these pages you ll find tips for best practices and comprehensive discussions of key database and XML principles you need to know in order to be effective with ASP NET The book also fully explains the crucial coding techniques of object orientation and code behind on which your future as a successful ASP NET developer relies Beginning Asp.Net 4 In C# 2010-Apress Series Matthew Macdonald, 2010-11-01 Beginning ASP.NET 4.5.1: in C# and VB Imar Spaanjaars, 2014-03-24 Build your ASP NET 4.5. 1 skills with real world instruction In this comprehensive guide to getting started with ASP NET 4 5 1 best selling author Imar Spaanjaars provides a firm foundation for coders new to ASP NET and key insights for those not yet familiar with the important updates in the 4 5 1 release Readers learn how to build full featured ASP NET websites using Visual Studio Express 2013 for Web Microsoft s free development tool for ASP NET web applications Beginning ASP NET 4 5 1 guides you through the process of creating a fully functional database driven website from creation of the most basic site structure all the way down to the successful deployment of the website to a production environment Beginning ASP NET 4 5 1 in C and VB Explains how to get started with ASP NET 4 5 1 including an introduction to Microsoft s Visual Studio Express 2013 for Web Features helpful examples for designing websites with CSS and HTML and how to overcome common formatting problems Shares techniques for managing server controls in ASP NET including standard controls HTML controls and data controls Provides real world tips for creating consistent page layouts throughout your websites Covers practical functionality issues like validating user input sending e mail from your website and processing data at the server Details what the ASP NET state engine is and why it is important Shows how to access and modify data in a SQL Server database Includes coverage of jQuery LINQ and the Entity Framework Explores measures to take for optimal security Professional Windows 8 Programming Nick Lecrenski, Doug Holland, Allen Sanders, Kevin Ashley, 2012-12-07 It is an exciting time to be a Windows developer The arrival of Windows 8 is a complete game changer The operating system and its development platform offer you an entirely new way to create rich full featured Windows based applications This team of authors takes you on a journey through all of the new development features of the Windows 8 platform specifically how to utilize Visual Studio 2012 and the XAML C languages to produce robust apps that are ready for deployment in the new Windows Store Professional Windows 8 Programming Learn how to utilize XAML to create rich content driven user interfaces Make use of the new AppBar to create

a chrome less menu system See how to support Sensors and Geo location on Windows 8 devices Integrate your app into the Windows 8 ecosystem with Contracts and Extensions Walks you through the new Windows 8 navigation system for multi page apps Minimize code with Data Binding and MVVM design patterns Features tips on getting your app ready for the Windows store Maximize revenue for your app by learning about available monetization strategies Pro Silverlight 5 in C# Matthew MacDonald, 2012-06-10 Silverlight 5 is the latest iteration of Microsoft's cross browser technology for creating rich user experiences on the Web Like its predecessor it rides atop the NET Framework for maximum ease of use and coding efficiency The new technology carries forward much of the work that has been done before and augments it in many important respects including support for H 264 video major improvements to the graphics engine including true 3D rendering and much richer data binding options for interfacing with other applications Pro Silverlight 5 in C is an invaluable reference for professional developers who want to discover the new features of Silverlight Author Matthew MacDonald's expert advice guides you through creating rich media applications using Silverlight in the environment you re most productive in no matter what the target platform As you learn about the features that put Silverlight in direct competition with Adobe Flash such as rich support for 2D and 3D drawing animations and media playback you ll experience the plumbing of NET and the design model of WPF through Silverlight all of the same NET technology that developers use to design next generation Windows applications Pro Silverlight 5 in C is a comprehensive tutorial written from professional developer to professional developer Please note the print version of this title is black the eBook is full color **Pro Silverlight 5 in VB** Matthew MacDonald, 2012-06-12 Silverlight 5 is the latest iteration of Microsoft's cross browser technology for creating rich user experiences on the Web Like its predecessor Silverlight 4 it rides atop the NET Framework for maximum ease of use and coding efficiency. The new technology carries forward much of the work that has been done before and augments it in many important respects including support for H 264 video major improvements to the graphics engine including true 3D rendering and much richer data binding options for interfacing with other applications Pro Silverlight 5 in VB is an invaluable reference for professional developers wanting to discover the new features of Silverlight Author Matthew MacDonald s expert advice guides you through creating rich media applications using Silverlight in the environment you re most productive in no matter what the target platform As you learn about the features that put Silverlight in direct competition with Adobe Flash such as rich support for 2D and 3D drawing animations and media playback you ll experience the plumbing of NET and the design model of WPF through Silverlight all of the same NET technology that developers use to design next generation Windows applications MacDonald provides a comprehensive tutorial written from professional developer to professional developer **Professional ASP.NET 4 in C# and VB** Bill Evjen, Scott Hanselman, Devin Rader, 2010-03-08 This book was written to introduce you to the features and capabilities that ASP NET 4 offers as well as to give you an explanation of the foundation that ASP NET provides We assume you have a general understanding of Web technologies such

as previous versions of ASP NET Active Server Pages 2 0 3 0 or JavaServer Pages If you understand the basics of Web programming you should not have much trouble following along with this book s content If you are brand new to ASP NET be sure to check out Beginning ASP NET 4 In C and VB by Imar Spaanjaars Wiley Publishing Inc 2010 to help you understand the basics In addition to working with Web technologies we also assume that you understand basic programming constructs such as variables For Each loops and object oriented programming You may also be wondering whether this book is for the Visual Basic developer or the C developer We are happy to say that it is for both When the code differs substantially this book provides examples in both VB and C This book explores the 4 release of ASP NET It covers each major new feature included in ASP NET 4 in detail The following list tells you something about the content of each chapter Chapter 1 Application and Page Frameworks The first chapter covers the frameworks of ASP NET applications as well as the structure and frameworks provided for single ASP NET pages This chapter shows you how to build ASP NET applications using IIS or the built in Web server that comes with Visual Studio 2010 This chapter also shows you the folders and files that are part of ASP NET It discusses ways to compile code and shows you how to perform cross page posting This chapter ends by showing you easy ways to deal with your classes from within Visual Studio 2010 Chapters 2 3 and 4 These three chapters are grouped together because they all deal with server controls This batch of chapters starts by examining the idea of the server control and its pivotal role in ASP NET development In addition to looking at the server control framework these chapters delve into the plethora of server controls that are at your disposal for ASP NET development projects Chapter 2 ASP NET Server Controls and Client Side Scripts looks at the basics of working with server controls Chapter 3 ASP NET Web Server Controls covers the controls that have been part of the ASP NET technology since its initial release and the controls that have been added in each of the ASP NET releases Chapter 4 Validation Server Controls describes a special group of server controls those for validation Chapter 5 Working with Master Pages Master pages provide a means of creating templated pages that enable you to work with the entire application as opposed to single pages This chapter examines the creation of these templates and how to apply them to your content pages throughout an ASP NET application Chapter 6 Themes and Skins The Cascading Style Sheet files you are allowed to use in ASP NET 1 0 1 1 are simply not adequate in many regards especially in the area of server controls This chapter looks at how to deal with the styles that your applications require and shows you how to create a centrally managed look and feel for all the pages of your application by using themes and the skin files that are part of a theme Chapter 7 Data Binding One of the more important tasks of ASP NET is presenting data and this chapter looks at the underlying capabilities that enable you to work with the data programmatically before issuing the data to a control Chapter 8 Data Management with ADO NET This chapter presents the ADO NET data model provided by ASP NET which allows you to handle the retrieval updating and deleting of data quickly and logically Chapter 9 Querying with LINQ The NET Framework 4 includes a nice access model language called LINQ LINQ is a set of extensions to the NET Framework that encompass

language integrated query set and transform operations This chapter introduces you to LINQ and how to effectively use this feature in your Web applications today Chapter 10 Working with XML and LINQ to XML The NET Framework and ASP NET 4 have many capabilities built into their frameworks that enable you to easily extract create manipulate and store XML This chapter takes a close look at the XML technologies built into ASP NET and the underlying NET Framework Chapter 11 Introduction to the Provider Model The provider model is built into ASP NET to make the lives of developers so much easier and more productive than ever before This chapter gives an overview of this provider model and how it is used throughout ASP NET 4 Chapter 12 Extending the Provider Model After an introduction of the provider model this chapter looks at some of the ways to extend the provider model found in ASP NET 4 This chapter also reviews a couple of sample extensions to the provider model Chapter 13 Site Navigation Most developers do not simply develop single pages they build applications One of the application capabilities provided by ASP NET 4 is the site navigation system covered in this chapter Chapter 14 Personalization Developers are always looking for ways to store information pertinent to the end user After it is stored this personalization data has to be persisted for future visits or for grabbing other pages within the same application The ASP NET team developed a way to store this information the ASP NET personalization system. The great thing about this system is that you configure the entire behavior of the system from the web config file Chapter 15 Membership and Role Management This chapter covers the membership and role management system developed to simplify adding authentication and authorization to your ASP NET applications This chapter focuses on using the web config file for controlling how these systems are applied as well as on the server controls that work with the underlying systems Chapter 16 Portal Frameworks and Web Parts This chapter explains Web Parts a way of encapsulating pages into smaller and more manageable objects Chapter 17 HTML and CSS Design with ASP NET Visual Studio 2010 places a lot of focus on building a CSS based Web This chapter takes a close look at how you can effectively work with HTML and CSS design for your ASP NET applications Chapter 18 ASP NET AJAX AJAX is an acronym for Asynchronous JavaScript and XML In Web application development it signifies the capability to build applications that make use of the XMLHttpRequest object Visual Studio 2010 contains the ability to build AJAX enabled ASP NET applications from the default install of the IDE This chapter takes a look at this way to build your applications Chapter 19 ASP NET AJAX Control Toolkit Along with the capabilities to build ASP NET applications that make use of the AJAX technology a series of controls is available to make the task rather simple This chapter takes a good look at the ASP NET AJAX Control Toolkit and how to use this toolkit with your applications today Chapter 20 Security This chapter discusses security beyond the membership and role management features provided by ASP NET 4 This chapter provides an in depth look at the authentication and authorization mechanics inherent in the ASP NET technology as well as HTTP access types and impersonations Chapter 21 State Management Because ASP NET is a request response based technology state management and the performance of requests and responses take on significant importance This chapter

introduces these two separate but important areas of ASP NET development Chapter 22 Caching Because of the request response nature of ASP NET caching storing previous generated results images and pages on the server becomes rather important to the performance of your ASP NET applications This chapter looks at some of the advanced caching capabilities provided by ASP NET including the SQL cache invalidation feature which is part of ASP NET 4 This chapter also takes a look at object caching and object caching extensibility Chapter 23 Debugging and Error Handling This chapter tells you how to properly structure error handling within your applications It also shows you how to use various debugging techniques to find errors that your applications might contain Chapter 24 File I O and Streams This chapter takes a close look at working with various file types and streams that might come into your ASP NET applications Chapter 25 User and Server Controls Not only can you use the plethora of server controls that come with ASP NET but you can also use the same framework these controls use and build your own This chapter describes building your own server controls and how to use them within your applications Chapter 26 Modules and Handlers This chapter looks at two methods of manipulating the way ASP NET processes HTTP requests HttpModule and HttpHandler Each method provides a unique level of access to the underlying processing of ASP NET and each can be a powerful tool for creating Web applications Chapter 27 ASP NET MVC ASP NET MVC is the latest major addition to ASP NET and has generated a lot of excitement from the development community ASP NET MVC supplies you with the means to create ASP NET using the Model View Controller models that many developers expect ASP NET MVC provides developers with the testability flexibility and maintainability in the applications they build It is important to remember that ASP NET MVC is not meant to be a replacement to the ASP NET everyone knows and loves but instead is simply a different way to construct your applications Chapter 28 Using Business Objects Invariably you are going to have components created with previous technologies that you do not want to rebuild but that you do want to integrate into new ASP NET applications If this is the case the NET Framework makes incorporating your previous COM components into your applications fairly simple and straightforward This chapter also shows you how to build NET components instead of turning to the previous COM component architecture Chapter 29 ADO NET Entity Framework The inclusion of the ADO NET Entity Framework in ASP NET makes mapping objects from the database to the objects within your code significantly simpler Using Visual Studio 2010 you are able to visually design your entity data models and then very easily access these models from code allowing the ADO NET Entity Framework to handle the connections and transactions to the underlying database Chapter 30 ASP NET Dynamic Data This feature in ASP NET 4 allows you to quickly and easily put together a reporting and data entry application from your database You are also able to take these same capabilities and incorporate them into a pre existing application Chapter 31 Working with Services This chapter reveals the ease not only of building XML Web services but consuming them in an ASP NET application This chapter then ventures further by describing how to build XML Web services that utilize SOAP headers and how to consume this particular type of service Another feature in ASP NET ADO NET

Data Services allows you to create a RESTful service layer using an Entity Data Model Using this capability you can quickly set up a service layer that allows you to expose your content as AtomPub or ISON which will allow the consumer to completely interact with the underlying database Chapter 32 Building Global Applications ASP NET provides an outstanding way to address the internationalization of Web applications Changes to the API the addition of capabilities to the server controls and even Visual Studio itself equip you to do the extra work required to more easily bring your application to an international audience This chapter looks at some of the important items to consider when building your Web applications for the world Chapter 33 Configuration This chapter teaches you to modify the capabilities and behaviors of ASP NET using the various configuration files at your disposal Chapter 34 Instrumentation ASP NET gives you greater capability to apply instrumentation techniques to your applications The ASP NET Framework includes performance counters the capability to work with the Windows Event Tracing system possibilities for application tracing covered in Chapter 23 of this book and the most exciting part of this discussion a health monitoring system that allows you to log a number of different events over an application's lifetime This chapter takes an in depth look at this health monitoring system Chapter 35 Administration and Management This chapter provides an overview of the GUI tools that come with ASP NET today that enable you to manage your Web applications easily and effectively Chapter 36 Packaging and Deploying ASP NET Applications So you have built an ASP NET application now what This chapter takes the building process one step further and shows you how to package your ASP NET applications for easy deployment Many options are available for working with the installers and compilation model to change what you are actually giving your customers Appendix A Migrating Older ASP NET Projects This appendix focuses on migrating ASP NET 1 x 2 0 or 3 5 applications to the 4 Framework Appendix B ASP NET Ultimate Tools Based on Scott Hanselman's annual Tools pick blog posting many of the tools here will expedite your development process and in many cases make you a better developer Appendix C Silverlight 3 and ASP NET Silverlight is a means to build fluid applications using XAML This technology enables developers with really rich vector based applications Appendix D Dynamic Types and Languages As of the release of ASP NET 4 you can now build your Web applications using IronRuby and IronPython This appendix takes a quick look at using dynamic languages in building your Web applications Note CD ROM DVD and other supplementary materials are not included as part of eBook file **Beginning ASP.NET 4 in VB 2010** Matthew MacDonald, 2010-12-31 The most up to date and comprehensive introductory ASP NET book you ll find on any shelf Beginning ASP NET 4 in VB 2010 guides you through Microsoft s latest technology for building dynamic web sites This book will enable you to build dynamic web pages on the fly and assumes only the most basic knowledge of Visual Basic The book provides exhaustive coverage of ASP NET guiding you from your first steps right up to the most advanced techniques such as querying databases from within a web page and tuning your site for optimal performance Within these pages you ll find tips for best practices and comprehensive discussions of key database and XML principles you need to know in order to be

effective with ASP NET The book also emphasizes the invaluable coding techniques of object orientation and code behind which will start you off on the track to building real world web sites right from the beginning rather than just faking it with simplified coding practices By the time you ve finished the book you will have mastered the core techniques and have all the knowledge you need to begin work as a professional ASP NET developer **Start Here! Learn Microsoft Visual Basic** 2012 Michael Halvorson, 2012-12-15 Ready to learn Microsoft Visual Basic Start Here Learn the fundamentals of modern programming with Visual Basic 2012 and begin building your first Windows 8 apps for the desktop If you have absolutely no previous experience with Visual Basic no problem simply start here This book introduces must know concepts and techniques through easy to follow explanations examples and exercises Here's where you start learning Visual Basic Learn the fundamentals of programming with Visual Basic Discover how to to bind controls to data Design and interact with user interfaces built with XAML Build and debug complete applications Learn the basics of Windows 8 application design Find out how to deliver your applications to the Windows Store Beginning ASP.NET 4 Imar Spaanjaars, 2010-07-23 The definitive programming guide to ASP NET by popular author and Microsoft MVP Imar Spaanjaars Updated for ASP NET 4 this introductory book retains its helpful examples and step by step format from the previous version and keeps the style of offering code examples written in both C and Visual Basic Beloved author and Microsoft ASP NET MVP walks you through ASP NET Microsoft's technology for building dynamically generated Web pages from database content You'll discover many improvements that ASP NET 4 offers over the previous version such as the ASP NET MVC framework Ajax improvements ¡Query support and more You ll gradually build a Web site example that takes you through the processes of building basic ASP NET Web pages adding features with pre built server controls designing consistent pages displaying data and more Popular author and Microsoft ASP NET MVP Imar Spaanjaars updates you on the latest updates to ASP NET 4 Microsoft s technology for building dynamic Web pages from database content Shows you how the 4 version differs from ASP NET 3 5 and reviews its new features including the ASP NET MVC framework various Ajax improvements jQuery support and more Spaanjaars s distinct writing style puts you at ease with learning ASP NET 4 Introduction to Security and Network Forensics William J. Buchanan, 2011-06-06 Keeping up with the latest developments in cyber security requires ongoing commitment but without a firm foundation in the principles of computer security and digital forensics those tasked with safeguarding private information can get lost in a turbulent and shifting sea Providing such a foundation Introduction to Security and N .NET 4 Wrox PDF Bundle Bill Evjen, Christian Nagel, Rod Stephens, Robert Vieira, Nick Randolph, 2010-09-17 The books included in this set are 9780470502204 Professional ASP NET 4 in C and VB Written by three highly recognized and regarded ASP NET experts this book provides comprehensive coverage on ASP NET 4 with a unique approach featuring examples in both C and VB as is the incomparable coverage of core ASP NET After a fast paced refresher on essentials such as server controls the book delves into expert coverage of all the latest capabilities of ASP NET 4

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Millett, Christian Nagel, Daron Yondem, 2011-11-22 A team of MVP authors guides you through the NET 4 Framework Written by a group of experienced MVPs this unparalleled book delves into the intricate and often daunting world of NET 4 Each author draws from a particular area of expertise to provide invaluable information on using the various NET 4 C 4 Silverlight 4 and Visual Studio tools in the real world The authors break down the vast NET 4 Framework into easily digestible portions to offer you a strong foundation on what makes NET such a popular and successful framework for building a wide range of solutions Breaks down the NET 4 Framework into easily understandable sections Features more than a dozen MVPs serving as authors each of whom focuses on a particular area of expertise Covers such topics as Windows Presentation Foundation Silverlight 4 Windows Communication Foundation ASP NET performance the entity framework and more Shares C tips and tricks and NET architecture best practices from a team of Microsoft MVPs Real World NET 4 and C is the ultimate resource for discovering and understanding the NET 4 Framework Beginning ASP.NET 4.5 in C# Matthew MacDonald, 2012-10-24 This book is the most comprehensive and up to date introduction to ASP NET ever written Focussing solely on C with no code samples duplicated in other languages award winning author Matthew MacDonald introduces you to the very latest thinking and best practices for the ASP NET 4.5 technology Assuming no prior coding experience you ll be taught everything you need to know from the ground up Starting from first principals you ll learn the skills you need to be an effective ASP NET developer who is ready to progress to more sophisticated projects and professional work You ll be taught how to use object orientation and code behind techniques to lay out your code clearly in a way other developers can easily understand You ll learn how to guery databases from within you web pages spice up your layouts using ASP NET AJAX and deploy your finished websites to production servers You ll also learn how to debug your code when things go wrongand the performance and scalability issues that can affect your web projects as they grow With you book you can take your first step towards becoming a successful ASP NET developer with confidence Pro ASP.NET 4 in C# 2010 Matthew MacDonald, Adam Freeman, 2010-11-08 ASP NET 4 is the principal standard for creating dynamic web pages on the Windows platform Pro ASP NET 4 in C 2010 raises the bar for high quality practical advice on learning and deploying Microsoft s dynamic web solution This edition is updated with everything you need to master up to version 4 of ASP NET including coverage of ASP NET MVC ASP NET AJAX 4 ASP NET Dynamic Data and Silverlight 3 Seasoned NET professionals Matthew MacDonald and Mario Szpuszta explain how you can get the most from these groundbreaking technologies They cover ASP NET 4 as a whole illustrating both the newer features and the functionality carried over from previous versions of ASP This book will give you the knowledge you need to code real ASP NET 4 applications in the best possible style .NET 4 Wrox eBook Bundle Bill Evjen, Christian Nagel, Rod Stephens, Robert Vieira, Nick Randolph, Scott Hanselman, 2010-10-26 The books included in this set are 9780470502204 Professional ASP NET 4 in C and VB Written by three highly recognized and regarded ASP NET experts this book provides comprehensive coverage on ASP NET 4 with a unique approach featuring

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mastery then this is the book for you Table of Contents Introducing ASP NET MVC 4 Installing ASP NET MVC 4 The Have You Seen Me ASP NET MVC 4 Web Application Controllers Views Models Data Validation Ajax and jQuery Security Routing Visual Studio 2010 and .NET 4 Six-in-One István Novák, Andras Testing the Application Deploying the Application Velvart, Adam Granicz, György Balássy, Attila Hajdrik, Mitchel Sellers, Gastón C. Hillar, Ágnes Molnár, Joydip Kanjilal, 2010-10-01 Complete coverage of all key NET 4 and Visual Studio 2010 languages and technologies NET 4 is Microsoft's latest version of their core programming platform and Visual Studio 2010 is the toolset that helps write NET 4 applications This comprehensive resource offers one stop shopping for all you need to know to get productive with NET 4 Experienced author and NET guru Mitchel Sellers reviews all the important new features of NET 4 including NET charting and ASP NET charting ASP NET dynamic data and jQuery and the addition of F as a supported package language The expansive coverage is divided into six distinctive parts for easy navigation and addresses Visual Studio 2010 NET 4 ASP NET the C language the VB NET language and the new F language A practical approach and complete examples round out this much needed reference Focuses on the new and important features of the latest version Microsoft's core programming platform NET 4 as well as Visual Studio 2010 which allows you to write NET 4 applications Provides comprehensive coverage divided into six parts Visual Studio 2010 NET 4 ASP NET the C language the VB NET language and the new F language Discusses Visual Studio snippets and templates NET charting components the NET framework and WPF LINQ and the Entity framework Explores various aspects of Visual Basic 2010 such as multi line lambdas auto implemented properties nullable optional parameters and more This investigative look at NET 4 and Visual Studio 2010 will help you identify and isolate key elements that can benefit you immediately MSDN Magazine ,2009-07

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