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Professional

# ASP.NET Design Patterns

Foreword by Scott Hanselman, *Program Manager, Microsoft*

Scott Millett

# Professional Asp Net Design Patterns

**M Mark**



## **Professional Asp Net Design Patterns:**

Professional ASP.NET Design Patterns Scott Millett, 2010-09-09 Professional ASP NET Design Patterns is all about showing you how to use the power of design patterns and core design principles in real ASP NET applications The goal of this book is to educate developers on the fundamentals of object oriented programming design patterns principles and methodologies that can help you become a better programmer Design patterns and principles enable loosely coupled and highly cohesive code which will improve your code s readability flexibility and maintenance Each chapter addresses a layer in an enterprise ASP NET application and shows how proven patterns principles and best practices can be leveraged to solve problems and improve the design of your code In addition a professional level end to end case study is used to show how to use best practice design patterns and principles in a real website Professional ASP NET Design Patterns is for ASP NET developers who are comfortable with the NET framework but are looking to improve how they code and understand why design patterns design principles and best practices will make their code more maintainable and adaptable Readers who have had experience with design patterns before may wish to skip Part 1 of the book which acts as an introduction to the Gang of Four design patterns and common design principles including the S O L I D principles and Martin Fowler s enterprise patterns All code samples are written in C but the concepts can be applied very easily to VB NET This book covers well known patterns and best practices for developing enterprise level ASP NET applications The patterns used can be applied to any version of ASP NET from 1 0 to 4 0 The patterns themselves are language agnostic and can be applied to any object oriented programming language Professional ASP NET Design Patterns can be used both as a step by step guide and as a continuous source of reference to dip into at your leisure The book is broken into three distinct sections Part 1 is an introduction to patterns and design principles Part 2 examines how patterns and principles can be used in the various layers of an ASP NET application Part 3 represents an end to end case study showcasing many of the patterns covered in the book You may find it useful to work through the chapters before reading the case study or you may find it easier to see the patterns in action by reading the case study section first and referring back to Part 2 for a more detailed view on the patterns and principles used Within those parts the coverage includes The origins of the Gang of Four design patterns their relevance in today s world and their decoupling from specific programming languages An overview of some common design principles and the S O L I D design principles follows and the chapter ends with a description of Fowler s enterprise patterns Layering Your Application and Separating Your Concerns A description of the Transaction Script pattern followed by the Active Record with an exercise to demonstrate the pattern using the Castle Windsor project The Domain Model pattern demonstrated in an exercise with NHibernate and a review of the domain driven design DDD methodology Patterns and principles that can be used construct your objects and how to make sure that you are building your application for scalability and maintainability Factory Decorator Template State Strategy Composite Specification and Layer Supertype Design principles that can improve

your code's maintainability and flexibility these include Dependency Injection Interface Segregation and Liskov Substitution Principle Service Oriented Architecture the Facade design pattern messaging patterns such as Document Message Request Response Reservation and the Idempotent pattern The Data Access Layer Two data access strategies are demonstrated to help organize your persistence layer Repository and Data Access Objects Enterprise patterns and principles that will help you fulfill your data access requirement needs elegantly including Lazy Loading Identity Map Unit of Work and the Query Object An introduction to Object Relational Mappers and the problems they solve An enterprise Domain Driven exercise with POCO business entities utilizing both NHibernate and the MS Entity Framework The Presentation Layer how you can tie your loosely coupled code together Structure Map and an Inversion of Control container Presentation patterns including letting the view be in charge with the Model View Presenter pattern and ASP NET web forms the Front Controller presentation pattern utilizing the Command and Chain of Responsibility patterns as well as the Model View Controller Pattern implemented with the ASP NET MVC framework and Windsor's Castle Monorail framework The final presentation pattern covered is PageController as used in ASP NET web forms A pattern that can be used with organizational patterns namely the ViewModel pattern and how to automate domain entities to ViewModel mapping with AutoMapper The User Experience Layer AJAX JavaScript libraries including jQuery AJAX patterns Ajax Periodic Refresh and Timeout patterns maintaining history with the Unique URL pattern client side data binding with JTemplate and the Ajax Predictive Fetch pattern An end to end e-commerce store case study with ASP NET MVC NHibernate jQuery Json AutoMapper ASP NET membership provider and a second 3rd party authentication method and PayPal as a payment merchant

**Professional ASP.NET Design Patterns** Scott Millett, 2010-09-16 Design patterns are time tested solutions to recurring problems letting the designer build programs on solutions that have already proved effective Provides developers with more than a dozen ASP NET examples showing standard design patterns and how using them helps build a richer understanding of ASP NET architecture as well as better ASP NET applications Builds a solid understanding of ASP NET architecture that can be used over and over again in many projects Covers ASP NET code to implement many standard patterns including Model View Controller MVC ETL Master Master Snapshot Master Slave Snapshot Fa ade Singleton Factory Single Access Point Roles Limited View observer page controller common communication patterns and more

**An Atypical ASP.NET Core 5 Design Patterns Guide** Carl-Hugo Marcotte, 2020-12-31 A NET developer's guide to crafting robust maintainable and flexible web apps by leveraging C# 9 and NET 5 features and component scale and application scale design patterns Key Features Apply software design patterns effectively starting small and progressing to cloud scale Discover modern application architectures such as vertical slice clean architecture and event driven microservices Explore ASP NET design patterns from options to full stack web development using Blazor Book Description Design patterns are a set of solutions to many of the common problems occurring in software development Knowledge of these design patterns helps developers and professionals to craft software solutions of

any scale ASP NET Core 5 Design Patterns starts by exploring basic design patterns architectural principles dependency injection and other ASP NET Core mechanisms You ll explore the component scale as you discover patterns oriented toward small chunks of the software and then move to application scale patterns and techniques to understand higher level patterns and how to structure the application as a whole The book covers a range of significant GoF Gangs of Four design patterns such as strategy singleton decorator facade and composite The chapters are organized based on scale and topics allowing you to start small and build on a strong base the same way that you would develop a program With the help of use cases the book will show you how to combine design patterns to display alternate usage and help you feel comfortable working with a variety of design patterns Finally you ll advance to the client side to connect the dots and make ASP NET Core a viable full stack alternative By the end of the book you ll be able to mix and match design patterns and have learned how to think about architecture and how it works What you will learn Apply the SOLID principles for building flexible and maintainable software Get to grips with NET 5 dependency injection Work with GoF design patterns such as strategy decorator and composite Explore the MVC patterns for designing web APIs and web applications using Razor Discover layering techniques and tenets of clean architecture Become familiar with CQRS and vertical slice architecture as an alternative to layering Understand microservices what they are and what they are not Build ASP NET UI from server side to client side Blazor Who this book is for This design patterns book is for intermediate level software and web developers with some knowledge of NET who want to write flexible maintainable and robust code for building scalable web applications Knowledge of C programming and an understanding of web concepts like HTTP is necessary

[Beginning SOLID Principles and Design Patterns for ASP.NET Developers](#) Bipin Joshi, 2016-04-08 This book teaches you all the essential knowledge required to learn and apply time proven SOLID principles of object oriented design and important design patterns in ASP NET Core 1 0 formerly ASP NET 5 applications You will learn to write server side as well as client side code that makes use of proven practices and patterns SOLID is an acronym popularized by Robert Martin used to describe five basic principles of good object oriented design Single Responsibility Open Closed Liskov Substitution Interface Segregation and Dependency Inversion This book covers all five principles and illustrates how they can be used in ASP NET Core 1 0 applications Design Patterns are time proven solutions to commonly occurring software design problems The most well known catalog of design patterns comes from Erich Gamma Richard Helm Ralph Johnson and John Vlissides the so called as GoF patterns Gang of Four patterns This book contains detailed descriptions of how to apply Creational Structural and Behavioral GoF design patterns along with some Patterns of Enterprise Application Architecture Popular JavaScript patterns are covered along with working examples of all these patterns in ASP NET Core 1 0 and C are included What You Will Learn How to apply SOLID principles to ASP NET applications How to use Gang of Four GoF design patterns in ASP NET applications Techniques for applying Patterns of Enterprise Application Architecture cataloged by Martin Fowler in ASP NET applications How to

organize code and apply design patterns in JavaScript Who This Book Is For This book is for ASP NET developers familiar with ASP NET Core 1 0 C and Visual Studio **Containerisation and Multimodal Transport in India** K. V. Hariharan,2003 ASP.NET 4.0 Programming Joydip Kanjilal,2008-12-15 The new features in ASP NET 3 5 make it easier than ever to build standards based next generation websites Foreword by Scott Barnes Microsoft Corporation Author frequently speaks at industry conferences *ASP.NET E-COMM*, HOFFMAN,2003-01-28 This title shows how to build a complete e commerce site from design to deployment It shows how to incorporate all the features offered on major e commerce sites straight into your own projects quickly and easily **.NET Design Patterns** Praseed Pai,Shine Xavier,2017-01-31 Explore the world of NET design patterns and bring the benefits that the right patterns can offer to your toolkit today About This Book Dive into the powerful fundamentals of NET framework for software development The code is explained piece by piece and the application of the pattern is also showcased This fast paced guide shows you how to implement the patterns into your existing applications Who This Book Is For This book is for those with familiarity with NET development who would like to take their skills to the next level and be in the driver s seat when it comes to modern development techniques Basic object oriented C programming experience and an elementary familiarity with the NET framework library is required What You Will Learn Put patterns and pattern catalogs into the right perspective Apply patterns for software development under C NET Use GoF and other patterns in real life development scenarios Be able to enrich your design vocabulary and well articulate your design thoughts Leverage object functional programming by mixing OOP and FP Understand the reactive programming model using Rx and RxJs Writing compositional code using C LINQ constructs Be able to implement concurrent parallel programming techniques using idioms under NET Avoiding pitfalls when creating compositional readable and maintainable code using imperative functional and reactive code In Detail Knowing about design patterns enables developers to improve their code base promoting code reuse and making their design more robust This book focuses on the practical aspects of programming in NET You will learn about some of the relevant design patterns and their application that are most widely used We start with classic object oriented programming OOP techniques evaluate parallel programming and concurrency models enhance implementations by mixing OOP and functional programming and finally to the reactive programming model where functional programming and OOP are used in synergy to write better code Throughout this book we ll show you how to deal with architecture design techniques GoF patterns relevant patterns from other catalogs functional programming and reactive programming techniques After reading this book you will be able to convincingly leverage these design patterns factory pattern builder pattern prototype pattern adapter pattern facade pattern decorator pattern observer pattern and so on for your programs You will also be able to write fluid functional code in NET that would leverage concurrency and parallelism Style and approach This tutorial based book takes a step by step approach It covers the major patterns and explains them in a detailed manner along with code examples *Pro*

*Design Patterns in C#* Adam Freeman, 2017-10-24 Pro C Design Patterns will teach you those design patterns that have always been present at some level in your code but were never recognized acknowledged or fully utilized Implementation of specific pattern approaches will prove their value to any NET developer This book shows you how to can harness the power and flexibility of the C language to apply the most important and enduring design patterns to your applications taking your development from journeyman to master Best selling NET author Adam Freeman explains how to get the most from design patterns He starts with the nuts and bolts and shows you everything through to advanced features going in depth to give you the knowledge you need This book brings design patterns to life and shows you how to bring structure and scale to your C code with a practical no nonsense approach You ll also discover less well known but useful patterns like memento composite command and mediator

**An Atypical ASP.NET Core 6 Design Patterns Guide** Carl-Hugo Marcotte, Abdelhamid Zebdi, 2022-03-28 The professional developer s essential guide to building robust maintainable and flexible web apps by leveraging C 10 and NET 6 features and component and application scale design patterns Key Features Apply the SOLID architectural principles and software design patterns effectively with a focus on dependency injection Discover modern application architectures such as vertical slice clean architecture and event driven microservices Explore full stack ASP NET Core with an overview of Blazor Book Description An Atypical ASP NET Core 6 Design Patterns Guide Second Edition approaches programming like playing with LEGO snapping small pieces together to create something beautiful Thoroughly updated for ASP NET Core 6 with further coverage of microservices patterns data contracts and event driven architecture this book gives you the tools to build and glue reliable components together to improve your programmatic masterpieces The chapters are organized based on scale and topic allowing you to start small and build on a strong base the same way that you would develop a program You will begin by exploring basic design patterns SOLID architectural principles dependency injection and other ASP NET Core 6 mechanisms You will explore component scale patterns and then move to higher level application scale patterns and techniques to better structure your applications Finally you ll advance to the client side to connect the dots with tools like Blazor and make ASP NET Core a viable full stack web development framework You will supplement your learning with practical use cases and best practices exploring a range of significant Gang of Four GoF design patterns along the way By the end of the book you will be comfortable combining and implementing patterns in different ways and crafting software solutions of any scale What you will learn Apply the SOLID principles for building flexible and maintainable software Get to grasp NET dependency Injection Work with GoF design patterns such as strategy decorator facade and composite Explore the MVC patterns for designing web APIs and web applications using Razor Discover layering techniques and tenets of clean architecture Become familiar with CQRS and vertical slice architecture as an alternate to layering Understand microservices and when they can benefit your applications Build an ASP NET user interfaces from server side to client side Blazor Who this book is for The book is intended for intermediate software and web developers with an

understanding of NET who want to write flexible maintainable and robust code for building scalable web applications Knowledge of C programming and an understanding of web concepts like HTTP is necessary [Testing ASP.NET Web Applications](#) Jeff McWherter, Ben Hall, 2011-06-15 A unique resource that combines all aspects of Web testing and makes it completely specific to ASP NET As Microsoft s key Web technology for creating dynamic data driven Web sites and Web applications ASP NET is incredibly popular This is the first book to combine several testing topics and make them specific to ASP NET The author duo of Microsoft MVPs covers both the test driven development approach and the specifics of automated user interface testing performance load and stress testing accessibility testing and security testing This definitive guide walks you through the many testing pitfalls you might experience when developing ASP NET applications The authors explain the fundamental concepts of testing and demystify all the correct actions you need to consider and the tools that are available so that you may successfully test your application Author duo of Microsoft MVPs offer a unique resource a combination of several testing topics and making them specific to ASP NET Microsoft s key Web technology for creating dynamic data driven Web sites and applications Guides you through the many testing pitfalls you may experience when developing ASP NET applications Reviews the fundamental concepts of testing and walks you through the various tools and techniques available and for successfully testing an application Discusses several different types of testing acceptance stress accessibility and security Examines various testing tools such as NUnit VS test suite WCAT Selenium Fiddler Firebug and more This one of a kind resource will help you become proficient in successful application testing [Dr. Dobb's Journal of Software Tools for the Professional Programmer](#) ,2003 [Beginning ASP.NET 1.1 Databases](#) Dan Maharry, Damien Foggon, 2004-08-03 This title built from the Expert s Voice principles of Apress and will have a single author voice and speak directly to the reader from a known expert rather than the cacophony of the Wiley title This title will be positioned within a larger ASP NET book tree and publishing program from Apress the reader will be able to progress through this program from Apress and understand which books are suitable for them at any point in their career Apress targets the skill sets that programmers specifically need in their ASP NET programming career offering the right skills that the reader requires in their work and growth towards becoming an expert 2 months ASP Today com subscription FREE for customers ASP NET v2 PREVIEW FREE with this book **Beginning VB .NET 1.1 Databases** Dan Maharry, 2005-02-15 Visual Basic NET is a powerful NET programming language that is often considered the workhorse of programming Further development in VB NET accounts for a huge portion of all programming efforts To understand VB NET is to meet challenging programming projects head on Author Dan Maharry livens the topic with his unique style and presents you with the skill set you want and need to enter today s VB NET programming jobs This book is an ideal read for beginning and intermediate VB NET students who want to understand the core of VB NET and database programming Maharry is at the height of his powers and promises to lead you on a memorable VB NET journey [Professional ASP.NET 2.0 Design](#) Jacob J. Sanford, 2007-09-11 While not

specifically a designer's book an overview of good web design and even a cheater's guide to PhotoShop will be included with the intent of taking the average ASP.NET Programmer and given them the knowledge to be Renaissance Men and Women of web design

**Design Patterns in .NET** Dmitri Nesteruk, 2019-05-11 Implement design patterns in .NET using the latest versions of the C# and F# languages This book provides a comprehensive overview of the field of design patterns as they are used in today's developer toolbox Using the C# programming language Design Patterns in .NET explores the classic design pattern implementation and discusses the applicability and relevance of specific language features for the purpose of implementing patterns You will learn by example reviewing scenarios where patterns are applicable MVP and patterns expert Dmitri Nesteruk demonstrates possible implementations of patterns discusses alternatives and pattern inter relationships and illustrates the way that a dedicated refactoring tool ReSharper can be used to implement design patterns with ease What You'll Learn Know the latest pattern implementations available in C# and F# Refer to researched and proven variations of patterns Study complete self contained examples including many that cover advanced scenarios Use the latest implementations of C# and Visual Studio ReSharper Who This Book Is For Developers who have some experience in the C# language and want to expand their comprehension of the art of programming by leveraging design approaches to solving modern problems *Business World*, 2008-05 **Dr. Dobb's Journal**, 2007 Integration Patterns Microsoft Corporation, 2004 Contains a catalog of 18 integration patterns including implementations that use BizTalk Server 2004 Host Integration Server 2004 ASP.NET Visual Studio .NET Visio 2003 and the .NET Framework Preface *Professional Design Patterns in VB .NET* Chaur Wu, Tom Fischer, Peter Stromquist, John Slater, 2008-01-01 Professional Design Patterns in VB .NET Building Adaptable Applications is not merely design pattern theory No no Instead the authors show design patterns applied to real world architectural scenarios so you can witness the patterns in action reaping benefits along the way The core of this book contains three case studies which explain design pattern application in each main tier of an application data business and presentation layers These case studies flesh out your understanding of design patterns illustrating how the scenarios can be realistically employed and recognized by all Visual Basic .NET programmers Also featured how design patterns can be used in conjunction with .NET Remoting to be applied across tiers as well as within them And since many VB .NET programmers may not be wholly familiar with UML the authors also provide a UML primer as an appendix

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