



From Technology to the Network

ASP.NET 3.5

Application Architecture and Design

Build robust, scalable ASP.NET applications quickly and easily

Vivek Thakur

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ASP.NET 3.5 Application Architecture and Design Vivek Thakur, 2008-10-24 Build robust scalable ASP NET applications quickly and easily *ASP.NET 3.5 Application Architecture and Design* Rakesh Shejwal, Shadab Khan, 2005*

ASP.NET 3.5 Enterprise Application Development with Visual Studio 2008 Vince Varallo, 2009 This book provides a step by step guide for developing an ASP NET 3 5 application using the latest features in Visual Studio 2008 The Problem Design Solution series by Wrox is unique because it describes a large case study and builds an entire solution chapter by chapter for each incremental step This book uses a wide variety of new features in Visual Studio 2008 explains each in detail and produces a solution that you can use as a starting point for your own applications If you are responsible for designing or developing enterprise wide applications departmental applications portals or any line of business application then this book is for you Many applications have a similar set of features and this book builds an application with some of the most common features of enterprise applications Let's face it Every application has the same general set of features but implemented in a different way A database sits in the back end and you as the developer are responsible for enabling users to add update select and delete records If only it were that simple no The real development work starts when you sit with users and try to understand the business process and why they need a new or improved system in the first place A lot of companies have departments that use Excel and Access wizards to create small systems that eventually become a lifeline for some part of the business Usually something bad happens because of the nature of the tool they are using Senior level management is called in project managers are hired programmers are contracted and the Project Management Office PMO is called to save the world Suddenly this loosely defined process is high priority and people want documented standard operating procedures audit reports more productivity less people and of course a system that can do it all which is where you come in When you think about it it's a pretty daunting task You're expected to become an expert in someone else's business process flaws and all and create a system that the company will rely on as the backbone for their existence OK maybe I'm exaggerating just a little bit but when you go looking for that raise you might want to phrase it that way This book will give you the tools necessary to build a framework that can be extended to create a solution to solve your company's problems The design pattern uses the normal three layers the user interface UI the business logic layer BLL and the data access layer DAL but also builds the classes in each layer that encapsulate common business rules such as role based security workflow reporting dynamic menus data entry dynamic querying notifications exception handling and auditing As the book guides you through the complete solution each business requirement is thoroughly examined and some of the latest enhancements in ASP NET 3 5 and Visual Studio 2008 are used to implement them in a reusable framework Enterprise applications are typically complex and the teams that build enterprise applications come in all shapes and sizes Some of the roles include a project sponsor a project manager business analysts an architect UI developers middle tier developers database developers and if you're really

lucky testers Just a side note Users are not testers If you ever have the pleasure of working with professional testers you ll realize how important they are in the process and how they truly are quality assurance engineers Unfortunately a lot of companies aren t willing to invest in professional testers so the users and or developers end up assuming that role This book is mainly focused on the architect and developers but testers may find it valuable as well to help them understand the plumbing that goes into developing and architecting an enterprise application This book is for the intermediate to senior level developer or system architect It would be helpful if you have experience with Visual Studio the NET Framework ASP NET and C because that is what the samples are written in but the design pattern could be used in any language The book is focused on enterprise applications but the pattern could be used for any type of application that has a web front end and connects to a database The application framework built in this book provides a foundation that can be extended to meet the specific business needs of your organization The sample application in this book is built using Visual Studio 2008 ASP NET 3 5 C and SQL Server 2005 Each chapter goes into great detail with plenty of code samples and uses some of the new features in Visual Studio 2008 and the language enhancements in the NET Framework 3 5 The solution includes examples for technologies such as LINQ to SQL master pages custom controls GridViews business objects data objects and Crystal Reports Some of the language enhancements discussed include LINQ extension methods partial methods automatic properties anonymous types lambda expressions and object initializers Of course I realize that the code is what most developers are interested in and each chapter provides numerous examples The Problem Design Solution series is just that Each chapter has three sections with a description of the problem to be addressed the design considerations for choosing a solution for the problem and the solution that ultimately addresses the problem The solution includes the bulk of the code Each chapter builds upon the previous chapter and it is recommended that you read them in order The base classes that are described in the first few chapters are critical to an understanding of the rest of the book Later chapters build upon the base classes and extend their functionality in all three layers of the application

An 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 FeaturesApply software design patterns effectively starting small and progressing to cloud scaleDiscover modern application architectures such as vertical slice clean architecture and event driven microservicesExplore ASP NET design patterns from options to full stack web development using BlazorBook 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

Architecting ASP.NET

Core Applications Dario Benevento, 2025-03-25 DESCRIPTION Architecting ASP NET Core Applications aims to be a reference guide for building modern reliable and scalable web applications This book guides you from foundational concepts to advanced techniques ensuring a solid understanding of ASP NET Core s architecture and capabilities This book provides a practical guide to mastering ASP NET Core from fundamental design principles like SOLID to advanced concepts such as modular architecture SignalR for real time communication and deploying with Docker and Kubernetes It explains when and how to apply these techniques offering hands on examples with repositories for solving real world challenges Readers will learn key topics like RESTful API design Clean Architecture Domain Driven Design Hexagonal Architecture routing middleware CQRS and modular monoliths The book also covers Blazor for frontend development Entity Framework Core for data access automated testing security debugging and performance tuning ensuring well rounded expertise in ASP NET Core development By the end of this book you will be equipped to design and implement sophisticated ASP NET Core applications confidently applying architectural principles best practices and advanced techniques to build high quality web solutions WHAT YOU WILL LEARN Design scalable and maintainable applications using popular principles like SOLID DRY and KISS Understand the architecture of systems and how to apply these principles in real life Implement secure high performance APIs and advanced deployment techniques Use Docker and Kubernetes for modern systems Solve real world business problems with practical coding examples Build modular architectures with real time communication using SignalR WHO THIS BOOK IS FOR This book is for developers and aspiring architects with a basic understanding of C and ASP NET Core

Additionally software design professionals will find this book to be a refresher on contemporary backend development practices

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ASP.NET 3.5 Enterprise Application

Development with Visual Studio 2008 Vincent Varallo, 2009-02-10 This book provides a step by step guide for developing an ASP NET 3.5 application using the latest features in Visual Studio 2008 The Problem Design Solution series by Wrox is unique because it describes a large case study and builds an entire solution chapter by chapter for each incremental step This book uses a wide variety of new features in Visual Studio 2008 explains each in detail and produces a solution that you can use as a starting point for your own applications If you are responsible for designing or developing enterprise wide applications departmental applications portals or any line of business application then this book is for you Many applications have a similar set of features and this book builds an application with some of the most common features of enterprise applications Let's face it Every application has the same general set of features but implemented in a different way A database sits in the back end and you as the developer are responsible for enabling users to add update select and delete records If only it were that simple no The real development work starts when you sit with users and try to understand the business process and why they need a new or improved system in the first place A lot of companies have departments that use Excel and Access wizards to create small systems that eventually become a lifeline for some part of the business Usually something bad happens because of the nature of the tool they are using Senior level management is called in project managers are hired programmers are contracted and the Project Management Office PMO is called to save the world Suddenly this loosely defined process is high priority and people want documented standard operating procedures audit reports more productivity less people and of course a system that can do it all which is where you come in When you think about it it's a pretty daunting task You're expected to become an expert in someone else's business process flaws and all and create a system that the company will rely on as the backbone for their existence OK maybe I'm exaggerating just a little bit but when you go looking for that raise you might want to phrase it that way This book will give you the tools necessary to build a framework that can be extended to create a solution to solve your company's problems The design pattern uses the normal three layers the user interface UI the business logic layer BLL and the data access layer DAL but also builds the classes in each layer that encapsulate common business rules such as role based security workflow reporting dynamic menus data entry dynamic querying notifications exception handling and auditing As the book guides you through the complete

solution each business requirement is thoroughly examined and some of the latest enhancements in ASP.NET 3.5 and Visual Studio 2008 are used to implement them in a reusable framework. Enterprise applications are typically complex and the teams that build enterprise applications come in all shapes and sizes. Some of the roles include a project sponsor, a project manager, business analysts, an architect, UI developers, middle tier developers, database developers, and if you're really lucky, testers. Just a side note: Users are not testers. If you ever have the pleasure of working with professional testers, you'll realize how important they are in the process and how they truly are quality assurance engineers. Unfortunately, a lot of companies aren't willing to invest in professional testers, so the users and/or developers end up assuming that role. This book is mainly focused on the architect and developers, but testers may find it valuable as well to help them understand the plumbing that goes into developing and architecting an enterprise application. This book is for the intermediate to senior level developer or system architect. It would be helpful if you have experience with Visual Studio, the .NET Framework, ASP.NET, and C# because that is what the samples are written in, but the design pattern could be used in any language. The book is focused on enterprise applications, but the pattern could be used for any type of application that has a web front end and connects to a database. The application framework built in this book provides a foundation that can be extended to meet the specific business needs of your organization. The sample application in this book is built using Visual Studio 2008, ASP.NET 3.5, C#, and SQL Server 2005. Each chapter goes into great detail with plenty of code samples and uses some of the new features in Visual Studio 2008 and the language enhancements in the .NET Framework 3.5. The solution includes examples for technologies such as LINQ to SQL, master pages, custom controls, GridViews, business objects, data objects, and Crystal Reports. Some of the language enhancements discussed include LINQ extension methods, partial methods, automatic properties, anonymous types, lambda expressions, and object initializers. Of course, I realize that the code is what most developers are interested in, and each chapter provides numerous examples. The Problem Design Solution series is just that. Each chapter has three sections: a description of the problem to be addressed, the design considerations for choosing a solution for the problem, and the solution that ultimately addresses the problem. The solution includes the bulk of the code. Each chapter builds upon the previous chapter, and it is recommended that you read them in order. The base classes that are described in the first few chapters are critical to an understanding of the rest of the book. Later chapters build upon the base classes and extend their functionality in all three layers of the application.

Customizing 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 Features: Customize the default behavior of ASP.NET Core to get the most out of the framework. Enhance the app configuration, change the default dependency injection, and build your own tag helpers. Discover best practices for configuring ASP.NET Core from user interface design to hosting it on platforms. Book 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 learnExplore various application configurations and providers in ASP NET Core 5Understand dependency injection in NET and learn how to add third party DI containersDiscover 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

ASP.NET MVC Framework Preview Steven Sanderson,2009-04-08 The ASP NET MVC framework is the latest evolution of Microsoft s ASP NET web platform It introduces a radical high productivity programming model promotes cleaner code architecture supports test driven development and provides powerful extensibility combined with all the benefits of ASP NET 3 5 ASP NET MVC Framework Preview is a first look at this technology s main features designed to give you a head start getting to grips with this powerful new technology

ASP Vivek Thakur,2008

Professional ASP.NET 3.5 SP1 Edition Bill Evjen,Scott Hanselman,Devin Rader,2009 Professional ASP NET 3 5 SP1 In C and VB ASP NET 3 5 brings the power of Visual Studio 2008 along with the multitude of language improvements in C 2008 and Visual Basic 2008 as well as powerful new technology called LINQ together with the ASP NET 2 0 Framework you already know and love Packed with valuable coverage of ASP NET 3 5 SP1 this essential resource offers both C and VB examples throughout the book and shares new and updated content on the ADO NET Entity Framework ADO NET Dynamic Data and ADO NET Data Services While ASP NET 3 5 boasts server controls like the ListView and the incredibly flexible GridView it also includes advancements in AJAX technology combined with JavaScript debugging features in Visual Studio 2008 With this book a stellar author team covers the new controls in the AJAX toolbox the back button history and script combining and they also examine the new capabilities of WCF including changes to DataContractSerializer In addition the

accompanying CD ROM features the entire book in PDF format What you will learn from this book The concepts underlying the server control and its pivotal role in ASP NET development How to create templated ASP NET pages using the master page feature How to work with data from enterprise databases including SQL Server Ways to debug package and deploy ASP NET applications monitor their health and performance and handle errors How to retrieve update and delete data quickly and logically using LINQ with side by side examples comparing LINQ to existing techniques Ways to localize your web site in multiple languages for a world wide audience Methods for adding AJAX capabilities to your ASP NET applications The many benefits of the new data access additions Ways to use and extend the Provider Model for accessing data stores processes and more What freeware tools you need in Scott Hanselman s ASP NET Ultimate Developer Tools appendix Who this book is for This book is for programmers and developers who are looking to make the transition to ASP NET 3 5 SP1 with Visual Studio 2008 and either C 3 0 2008 or Visual Basic 9 2008 CD ROM includes the full book in PDF format and a selection of 7 Wrox Blox mini e books including Internet Explorer 8 and Its Impact on Your ASP NET Web Sites Jumping from ASP NET to Silverlight 2 Leverage LINQ in ASP NET 3 5 Projects

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