

Beginning Solid Principles And Design Patterns For AspNet Developers

Beginning Solid Principles And Design Patterns For AspNet Developers Beginning Solid Principles and Design Patterns for ASPNET Developers Building a Sturdy House Not a Card Castle Imagine youre building a house Would you start by slapping up walls without a foundation Of course not Youd lay a solid base meticulously plan the structure and ensure each element works in harmony with the others Building robust and maintainable ASPNET applications is no different Ignoring fundamental principles and design patterns is like building a card castle impressive at first glance but destined to crumble under the slightest pressure This article will guide you through the foundational elements of SOLID principles and common design patterns helping you build a sturdy scalable and elegant ASPNET application a house that can withstand the storms of future development The SOLID Foundation Five Principles for Stability SOLID is an acronym representing five design principles championed by Robert C Martin Uncle Bob These principles arent just buzzwords theyre the cornerstones of clean maintainable code Think of them as the blueprints for your architectural masterpiece

- 1 Single Responsibility Principle SRP A class should have only one reason to change Imagine a class responsible for both fetching user data and generating reports A change in reporting requirements would necessitate modifying this class potentially affecting its data fetching capabilities a risky proposition Instead separate these responsibilities into distinct classes `UserDataService` and `ReportGenerator` This modularity reduces complexity and minimizes the risk of unintended consequences I once worked on a project where a single behemoth class handled almost everything Debugging it was a nightmare akin to navigating a maze blindfolded SRP saved us from a similar fate on subsequent projects
- 2 OpenClosed Principle OCP Software entities classes modules functions etc should be open for extension but closed for modification Modifying existing code is risky it can introduce bugs and break existing functionality Instead use inheritance interfaces or extension methods to add new features without touching the core code Think of it like adding a new room to your house you dont need to rebuild the entire structure
- 3 Liskov Substitution Principle LSP Subtypes should be substitutable for their base types without altering the correctness of the program If you have a `Bird` class and a `Penguin` class inheriting from it but penguins cant fly LSP is violated You cant simply use a `Penguin` where a `Bird` is expected without breaking the code Careful consideration of inheritance and polymorphism is key to adhering to LSP
- 4 Interface Segregation Principle ISP Clients shouldnt be forced to depend upon interfaces they dont use A large bloated interface is like a multitool with every imaginable function cumbersome and inefficient Instead break down large interfaces into smaller more specific ones This

improves code flexibility and reusability Consider a scenario where you have an interface defining methods for both printing and emailing documents If a class only needs printing functionality it shouldnt be forced to implement the email methods

5 Dependency Inversion Principle DIP

Highlevel modules shouldnt depend on lowlevel modules Both should depend on abstractions Abstractions shouldnt depend on details Details should depend on abstractions This principle promotes loose coupling and better testability Imagine a ShoppingCart highlevel module directly interacting with a Database lowlevel module If you switch databases you have to modify the ShoppingCart Instead use an IDataAccess interface allowing the ShoppingCart to remain oblivious to the specific database implementation

Common Design Patterns Prefabricated Building Blocks

Design patterns are reusable solutions to commonly occurring problems in software design Theyre like prefabricated building blocks that you can incorporate into your application to improve its architecture and functionality Here are a few crucial patterns for ASPNET developers

Repository Pattern

Abstracts data access logic simplifying database interactions and making your application more testable Its like a dedicated construction crew handling all your material delivery

Factory Pattern

Creates objects without specifying their concrete classes This promotes loose coupling and makes it easy to add new object types without modifying existing code Imagine a factory producing various types of doors for your house you dont need to specify the exact type of door every time

Singleton Pattern

Ensures that a class has only one instance and provides a global point of access to it Useful for managing resources that should only exist once eg a database connection Think of it like having a single main water supply for your entire house

MVC ModelViewController

Separates concerns into three interconnected parts Model 3 data View presentation and Controller logic Its like dividing your houses construction into specialized teams one for the foundation Model one for the interior design View and one for plumbing and electrical work

Controller Actionable Takeaways

Start by understanding and applying the SOLID principles They are not just theoretical concepts they directly impact code maintainability and scalability Gradually incorporate design patterns into your projects focusing on patterns that address specific challenges Dont try to use every pattern all at once Refactor your code regularly Cleaning up and improving your codebase is an ongoing process not a onetime event Embrace testing Unit testing integration testing and endtoend testing are essential for ensuring the quality and reliability of your application Learn from others Explore opensource projects attend conferences and engage with the ASPNET community

FAQs

- 1 Are SOLID principles and design patterns applicable to all projects While not mandatory for every tiny project adhering to these principles becomes increasingly important as your project grows in complexity and size It prevents future technical debt
- 2 How do I choose the right design pattern for my problem Theres no single answer Consider the specific problem youre trying to solve and research patterns that address similar challenges Start with simpler patterns and gradually move to more advanced ones as needed
- 3 Can I learn these principles and patterns quickly Understanding the concepts is relatively straightforward but mastering their application requires practice and experience Consistent effort and a willingness to learn from mistakes are key
- 4 Are there any tools or resources to help me

implement SOLID principles and design patterns Yes many tools and resources exist including ReSharper StyleCop and numerous online tutorials and courses 5 What if I make a mistake when applying these principles and patterns Dont be afraid to make mistakes its part of the learning process Regularly refactor your code learn from your errors and strive for continuous improvement By embracing the SOLID principles and mastering common design patterns youll transform 4 from an ASP.NET apprentice to a seasoned architect capable of building applications that are robust scalable maintainable and truly impressive a house built to last not a card castle destined to fall

An Atypical ASP.NET Core 6 Design Patterns Guide Beginning SOLID Principles and Design Patterns for ASP.NET Developers An An Atypical ASP.NET Core 5 Design Patterns Guide Professional ASP.NET Design Patterns Pro ASP.NET Core 3 Professional ASP.NET MVC 5 Beginning ASP.NET MVC 1.0 Professional ASP.NET MVC 4 ASP.NET MVC 1.0 Test Driven Development Design Patterns in C# MSDN Magazine Professional ASP.NET Design Patterns Professional ASP.NET 1.0 Integration Patterns ASP.NET 2.0 Website Programming Architecting ASP.NET Core Applications ASP.NET 2.0 MVP Hacks and Tips Building Secure Microsoft ASP.NET Applications Real World ASP.NET Maximizing ASP.NET Carl-Hugo Marcotte Bipin Joshi Carl-Hugo Marcotte Scott Millett Adam Freeman Jon Galloway Simone Chiaretta Jon Galloway Emad Ibrahim Steven John Metsker Scott Millett Richard Anderson Microsoft Corporation Marco Bellinaso Carl-Hugo Marcotte David Yack Microsoft Corporation Stephen R.G. Fraser Jeffrey Putz
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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

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

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 learnapply the solid principles for building flexible and maintainable softwareget to grips with net 5 dependency injectionwork with gof design patterns such as strategy decorator and compositeexplore the mvc patterns for designing web apis and web applications using razordiscover layering techniques and tenets of clean architecturebecome familiar with cqrs and vertical slice architecture as an alternative to layeringunderstand microservices what they are and what they are notbuild asp net ui from server side to client side blazorwho 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

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 helpsbuild 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 façade singleton factory single access point roles limited view observer page controller common communication patterns and more

now in its 8th edition pro asp net core has been thoroughly updated for asp net core 3 and online for asp net core 5 and net 5 0 this comprehensive full color guide is the only book you need to learn asp net core development professional developers get ready to produce leaner applications for the asp net core platform this edition puts asp net core 3 into context and takes a deep dive into the tools and techniques required to build modern extensible web applications new features and capabilities such as mvc 3 razor pages blazor server and blazor webassembly are covered along with demonstrations of how they can be applied in practice following the same popular format and style found in previous editions author adam freeman explains how to get the most out of asp net core 3 starting with the nuts and bolts topics he teaches readers about middleware components built in services request model binding and more moving along he introduces increasingly more complex topics and advanced features including endpoint routing and dependency injection written for professionals wanting to incorporate the latest functionality of asp net core 3 into their projects this book also serves as a complete reference on asp net core beginners with some background in microsoft web development will also greatly benefit from the in depth coverage provided throughout what you will learn build a solid foundation and skill set for working with the entire asp net core platform apply asp net core 3 and asp net core 5 features in your developer environment plentiful reusable templates see how to create restful web services web applications and client side applications leverage existing knowledge to efficiently get up and running with new programming models adam freeman is an experienced it professional who has held senior positions in a range of companies most recently serving as chief technology officer and chief operating officer of a global bank now retired he spends his time writing and long distance running the rolls royce of asp net books or if you re american the cadillac very thorough les jackson mcsd dotnet playbook the author s instruction is direct easy to understand and supplemented with clear code examples whether you are a beginner learning asp net core 3 1 app development or an experienced professional ready to master advanced concepts i consider this book a must have for you jeremy likness senior program manager microsoft the best single resource for teaching mvc web apps using asp net charles carter mscs mswe jd cloud application development instructor microsoft software and systems academy

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techniques on using mvc to best advantage with plenty of practical tutorials to illustrate the concepts it covers controllers views and models forms and html helpers data annotation and validation membership authorization and security mvc 5 the latest version of mvc adds sophisticated features such as single page applications mobile optimization and adaptive rendering a team of top microsoft mvp experts along with visionaries in the field provide practical advice on basic and advanced mvc topics covers controllers views models forms data annotations authorization and security ajax routing asp net web api dependency injection unit testing real world application and much more professional asp net mvc 5 is the comprehensive resource you need to make the best use of the updated model view controller technology

asp net mvc model view framework allows you to use ready to use mvc code so you can develop applications faster this book's cut to the chase approach gets you up to speed on the new asp net mvc without getting bogging you down in learning or re learning asp net itself you'll receive straightforward instruction on concepts backed by real world case studies and examples that offer practical solutions topics include test driven development and unit testing the principles of the mvc pattern how to implement it how to move from traditional asp net webforms to asp net mvc and much more

an outstanding author team presents the ultimate wrox guide to asp net mvc 4 microsoft insiders join giants of the software development community to offer this in depth guide to asp net mvc an essential web development technology experienced net and asp net developers will find all the important information they need to build dynamic data driven websites with asp net and the newest release of microsoft's model view controller technology featuring step by step guidance and lots of code samples this guide gets you started and moves all the way to advanced topics using plenty of examples designed to give experienced net and asp net programmers everything needed to work with the newest version of mvc technology expert author team includes microsoft asp net mvc insiders as well as leaders of the programming community covers controllers views models forms and html helpers data annotation and validation membership authorization security and routing includes essential topics such as ajax and jquery nuget dependency injection unit testing extending mvc and razor includes additional real world coverage requested by readers of the previous edition as well as a new case study example chapter

a hands on journey takes you through the development process of a application from concept to production asp net mvc is a new development framework created by microsoft as an alternative to asp net web forms applications mvc is well suited to testability and test driven development tdd affords you a generous level of control while also making mvc very powerful and extensible this book takes the asp net mvc and combines it with a testing methodology and tools and guides you through the process of taking application from concept to production using a complete working sample application that demonstrates all the tools needed to build an e commerce application the

popular problem design solution format gradually introduces you to new alternative tools frameworks and methodologies to get you started creating cutting edge applications asp net mvc is microsoft s hot new development framework to use as an alternative to asp net forms applications use the popular problem design solution recipe and encourages you to get involved with developing a application from concept to production introduces new alternative tools frameworks and methodologies such as nunit and inversion of control containers shows you how to use open source javascript libraries and work with a mocking framework as you work with all facets of application development requirements design testing deployment beta releases refactoring tool and framework selection you will have developed a live application by the time the book is finished note cd rom dvd and other supplementary materials are not included as part of ebook file

bull a catalogue of proven solutions to recurring problems in c software design bull part of the addison wesley software patterns series with john vlissides as consulting editor bull allows the growing legions of microsoft technology developers to apply traditional software approaches to frequently encountered problems

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

what is this book about this comprehensive compendium provides a broad and thorough investigation of all aspects of programming with

asp net entirely revised and updated for the 1.0 release of net this book will give you the information you need to master asp net and build dynamic successful enterprise applications what does this book cover here are just a few of the topics covered in this book what asp net is and how it makes building applications even easier how easy it is to work with asp net pages and server side controls accessing data of all kinds in your asp net pages an introduction to ado net getting started with asp net and the net framework creating asp net pages working with server controls and data management developing securing and configuring web applications exploring base class libraries components and extensibility working with services and asp net in the mobile arena debugging performance migration and interoperability integrating this knowledge in real world development contexts who is this book for this book is aimed at experienced asp developers working at the leading edge rather than the casual asp developer or beginner we do not cover the basics of com asp or the net programming languages this book is also ideal for visual basic developers who want to move into application design what do you need to use this book here's what you need to know in order to use this book a solid understanding of asp familiarity with vb or c based syntax c# java™ or c++ a desire to develop sophisticated asp net applications using the net framework a desire for a comprehensive and in depth guide to this exciting new technology

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

asp net 2.0 programming problem design solution is aimed at describing designing and implementing a site much like the ones you're probably working on or will be soon while taking the opportunity to introduce and explain many of the new features that the new great asp net 2.0 framework offers difficult problems are addressed head on so you'll be ready for most of the problems you'll typically face when writing a modern website and have one or more solutions ready for them unlike many other asp net books that show examples for individual pages or features the example in this book is an integrated end to end site written in c# the entire book and site has been written specifically for asp net 2.0 to use the asp net 2.0 features wherever they make sense the end result is a website which features a layout with user selectable themes a membership system a content management system for publishing and syndicating articles and photos polls mailing lists forums an e-commerce store with support for real time credit card processing homepage personalization and localization the book leads the reader through development of a site with account registration personalization and theming news and events organized into categories opinion polls newsletter forums e-commerce store with shopping cart and order management localization administration of a site will be covered including full online back end administrative section to manage practically all data from an intuitive user interface site deployment in building these site features you'll learn these new asp net 2.0 features master pages theming personalization parts membership profile

modules personalization the new server side ui controls such as gridview detailsview formview wizard multiview the new xxxdatasource and navigation controls among others the new compilation mode and deployment modes the new framework for instrumenting the site as well as handling logging exceptions the new ado net 2.0 features e.g. caching with database dependency the new classes for easy distributed transactions management this book is also available as part of the 5 book asp net 2.0 wrox box isbn 0 470 11757 5 this 5 book set includes professional asp net 2.0 special edition isbn 0 470 04178 1 asp net 2.0 website programming problem design solution isbn 0764584642 professional asp net 2.0 security membership and role management isbn 0764596985 professional asp net 2.0 server control and component development isbn 0471793507 asp net 2.0 mvp hacks and tips isbn 0764597663 cd rom with more than 1000 pages of bonus chapters from 15 other net 2.0 and sql server tm 2005 wrox books dvd with 180 day trial version of microsoft r visual studio r 2005 professional edition

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good refresher for those in software design roles with more experience looking to update their expertise a good knowledge of c programming and a basic understanding of web concepts is necessary to get the most out of this book though some refreshers are included along the way

this unique book offers readers invaluable information from the cream of the crop microsoft mvps who are now sharing undocumented hacks for the first time packed with superlative advice on asp microsoft s popular technology for sites this book will help readers become more productive developers find solutions to problems they thought unsolvable and develop better applications during their many years of working with asp net microsoft mvps have answered thousands of questions putting them in the distinctive position of knowing exactly what readers need to know many of the hacks will apply to multiple versions of asp net not just 2 0 but 1 0 and 1 1 as well this book is also available as part of the 5 book asp net 2 0 wrox box isbn 0 470 11757 5 this 5 book set includes professional asp net 2 0 special edition isbn 0 470 04178 1 asp net 2 0 website programming problem design solution isbn 0764584642 professional asp net 2 0 security membership and role management isbn 0764596985 professional asp net 2 0 server control and component development isbn 0471793507 asp net 2 0 mvp hacks and tips isbn 0764597663 cd rom with more than 1000 pages of bonus chapters from 15 other net 2 0 and sql server tm 2005 wrox books dvd with 180 day trial version of microsoft r visual studio r 2005 professional edition

building secure distributed applications can be challenging it usually involves integrating several different technologies and products yet your complete application will only be as secure as its weakest link this guide presents a practical scenario driven approach to designing and building security enhanced asp net applications for microsoft windows 2000 and version 1 1 of the microsoft net framework it focuses on the key elements of authentication authorization and secure communication within and across the tiers of distributed net applications this guide focuses on authent

real world asp net building a content management system provides web developers with a cost effective way to develop a content management system within microsoft s net framework unlike other net books on asp net that teach technologies on a piecemeal basis this book explains the underlying technologies and also shows how they are integrated into a complete asp net application suitable for many organizations complete source code written in c and asp net is included which will enable web developers to create a dynamic content site at a fraction of the cost of a commercial solution you will learn about the following content management system this system used to manage the content of a website consists of the content management metacontent management and content delivery applications c and asp net these underlying technologies are introduced and then applied extensively ado net all aspects relevant to dynamic content management are covered xml extensible markup language xml is introduced and then applied in the programmatic updating of the config web file

authentication authorization and encryption these topics are discussed in the book especially with regard to protected content and system administration personalization many key technologies are used to make the cms solution truly user friendly real world asp net building a content management system is the complete hands on guide to mastering the art of content management systems and website development using the net framework

this book helps the novice asp net developer become a well rounded master by explaining asp net s underlying concepts and architecture

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