

1. Record Nr.	UNINA9910777909803321
Autore	Thakur Vivek
Titolo	ASP.NET 3.5 application architecture and design [[electronic resource]] : build robust, scalable ASP.NET applications quickly and easily // Vivek Thakur
Pubbl/distr/stampa	Birmingham, UK, : Packt Publishing, c2008
ISBN	1-281-88696-3 9786611886967 1-84719-551-2
Descrizione fisica	1 online resource (260 p.)
Disciplina	006.76
Soggetti	Application software - Development Microsoft .NET Software architecture Web site development Web sites - Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover; Table of Content; Preface; Chapter 1: Introduction to Architecture and Design; Software Architecture; Software Design; Architectural Styles; Architecture and Design in ASP.NET; Technology and Art; Architecture: First Steps; Design Patterns; Project Life Cycle; Project Initiation; Project Planning and Prototyping; Project Plan; Use Case Design; Prototyping; Class Model; Database Model; Project Construction: Programming and Development; Project Transition and Release; Tiers and Layers; Physical Separation; Logical Separation; Single Tier-Single Layer Model; Single Tier-Two Layer Model Single Tier-Three Layer Model Two Tier Model; Two Tier-Two Layer Model; Three Tier Model; Summary; Chapter 2: 1-Tier 1-Layer Architecture in ASP.NET; Default N-Tier Nature of Web Applications; Classic ASP Style: Inline Coding; Sample Project using Inline Code; Code-Behind Model: The Second UI Layer; Sample Project using Code-Behind; Limitations of Coding in the UI Layer; Data Source Controls; A Sample Project using inbuilt Data Source Controls; Summary; Chapter 3:

ER Diagrams, Domain Model, and N-Layer Architecture; Entity-Relationship Diagram; Degree and Cardinality of a Relationship
OMS Project using 2-Layer Sample Project; Domain Model using UML; Class Diagram; UML Relationships; Dependency Relationship; Association Relationship; Generalization Relationship; Realization Relationship; Multiplicity; 1-tier 3-layer Architecture using a Domain Model; Layer 1: Data Access Layer (DAL); Layer 2: Business Layer (BL); Layer 3: The UI Layer; Object Data Source Controls; Summary; Chapter 4: N-Tier Architecture; Why N-Tier?; Performance; Scalability; Re-usability; Loose-Coupling; Plug and Play; A 4-Tier Approach; 5-Tier Architecture; Data Transfer Objects; Lazy Loading
Updating Business Objects GUI Tier; Generics and Custom Collections; Summary; Chapter 5: Model View Controller; Page Controller Pattern in ASP.NET; Problems with Page Controller Design; GUI Unit Testing; MVC Design: A Front Controller based Approach; Front Controller Design; Basics of MVC; REST: Representation State Transfer; MVC and REST; ASP.NET MVC Framework; Sample Project; URL Routing Engine; The Controller; The View; The Model; Wiring Controller, Model, and View; Unit Testing and ASP.NET MVC; Summary; Chapter 6: Design Patterns; Understanding Design Patterns; History of Patterns
Singleton Pattern Understanding Singleton with Code Example; Factory Method; Core Principle: Programming to an Interface instead of an Implementation; The Need for Factory Design; Dependency Injection; Basic Approach; Command Design Pattern; Decoupling the GUI completely from the BL; Creating the Command Interface; Creating the Value Objects; Creating the Command Factory; Tying it all up with the GUI; Summary; Chapter 7: SOA and WCF; Understanding Application Size, Scope, and Granularity; Small Applications Versus Big Applications; Tight and Fine-Grained Domain Model; Coarse-Grained Model
What is SOA?

Sommario/riassunto

Build robust, scalable ASP.NET applications quickly and easily.