

Microsoft Ado Net

Get the definitive guide on designing applications on the Microsoft application platform—straight from the Microsoft patterns & practices team. Learn how to choose the most appropriate architecture and the best implementation technologies that the Microsoft application platform offers applications developers. Get critical design recommendations and guidelines organized by application type—from Web, mobile, and rich Internet applications to Office Business Applications. You'll also get links to additional technical resources that can help with your application development.

Accelerate your productivity with Visual Basic® .NET—and quickly create powerful Win32® applications and high-performance, scalable applications for the Web—with this indispensable tutorial and reference. Building on the success of the author's popular programming book for Visual Basic 6.0, this new book teaches you the best practices for porting and reusing existing Visual Basic code in the .NET Framework as well as for exploiting the language's advanced new object-oriented capabilities. It covers the common language runtime (CLR), multithreaded programs, Windows® Forms applications, GDI+ graphic programming, Windows services, ADO.NET classes for database programs, ASP.NET Web Forms, and Web Services. It includes advanced optimization techniques and tips for leveraging the power of the Microsoft® Visual Studio® .NET environment. Topics covered include: Getting started with Visual Basic .NET Modules, variables, and error handling Object-oriented features, including inheritance Delegates and attributes Arrays, lists, and collections Files, directories, and streams Object serialization Regular expressions Threading Assemblies and AppDomains Reflection Windows Forms applications and GDI+ Windows Forms custom control creation Windows services ADO.NET XML ASP.NET Web Forms applications User controls and custom controls XML Web services CD+DVD INSIDE! CD-ROM features: A fully searchable electronic copy of PROGRAMMING MICROSOFT VISUAL BASIC 6.0 Sample applications written in Visual Basic .NET A Note Regarding the CD or DVD The print version of this book ships with a CD or DVD. For those customers purchasing one of the digital formats in which this book is available, we are pleased to offer the CD/DVD content as a free download via O'Reilly Media's Digital Distribution services. To download this content, please visit O'Reilly's web site, search for the title of this book to find its catalog page, and click on the link below the cover image (Examples, Companion Content, or Practice Files). Note that while we provide as much of the media content as we are able via free download, we are sometimes limited by licensing restrictions. Please direct any questions or concerns to booktech@oreilly.com.

Microsoft ADO. NET Step by Step introduces students to the ADO.NET object model and how to use that model in developing data-bound Windows Forms and Web Forms. Written for developers, it offers guidance on how to exploit the database functionality and advanced, integrated development environment in Microsoft Visual Basic .NET. The book covers core Visual Basic database development topics, with details on using Visual Basic .Net with Microsoft ActiveX(R) Data Objects (ADO), ADO+, and Microsoft SQL Server™.

Your hands-on guide to Entity Framework fundamentals Expand your expertise—and teach yourself the fundamentals of the Microsoft ADO.NET Entity Framework 5. If you have previous programming experience but are new to the Entity Framework, this tutorial delivers the step-by-step guidance and coding exercises you need to master core topics and techniques. Discover how to: Access data in a managed way—using minimal code Apply three workflows supported by the Entity Framework Perform essential tasks with full automation in place Manipulate data with both LINQ and Entity SQL Create examples that rely on Table-Valued Functions Determine the remedies for Entity-

specific exceptions Explore the use of optimistic and pessimistic concurrency Define mappings between your applications and data sources Aimed at database programmers with a working knowledge of the .NET Framework, this book dissects the ADO.NET component model and provides real-world examples demonstrating how ADO.NET can be used to manipulate data from different sources.

Best-selling author Bill Vaughn gives practical advice that VB developers can use immediately to make their data access code faster and easier to write and understand.

Completely revised and updated, this comprehensive reference on ADO .NET programming covers such topics as database tools, data objects, Web Services, multi-tier database applications, Windows Forms classes, and the development of ASP.NET Web applications, providing insider tips and techniques, code examples, and other helpful features. Original. (Intermediate)

For every developer who's uttered, "I wish I knew that before I started writing all this code!", this guide demonstrates how to save time, write less code, and build more powerful, data-driver solutions using Microsoft ActiveX Data Objects. CD contains code samples in VB, along with examples in Visual C++, and Visual J++.

CD-ROM contains: Searchable electronic version of text -- Source code for more than 75 complete sample programs and components written in C# -- .NET Framework SDK, plus service pack 1.

This concise guide for experienced programmers and software architects is a complete no-nonsense overview of key elements and programming languages central to all .NET application development.

Teach yourself the fundamentals of ADO.NET 4 -- one step at a time. With this practical, learn-by-doing tutorial, you get the clear guidance and hands-on examples you need to start creating datacentric applications for Windows and the Web. Discover how to: Connect to external data sources, including databases and other data formats Use ADO.NET Entity Framework to interact with underlying data stores Build Entity Framework models with graphical design tools in Microsoft Visual Studio 2010 Analyze information stored in ADO.NET with various LINQ providers Bind data directly to Windows Forms and Web Forms to drive information to users Manage disconnected or standalone data and information Go beyond the core functionality of ADO.NET to manipulate data in more advanced ways Your step by step digital content includes: Practice exercises Fully searchable online edition of this book -- with unlimited access on the Web

Visual Basic has long been the language of choice when designing Windows-based applications and the Web. Touted as both the most popular and productive computing language, Visual Basic has amassed quite a following of devoted programmers, and is a sought after programming skill. With the introduction of .NET Enterprise, Microsoft launch VB.NET, offering a streamlined, simplified version of Visual Basic language. With increased power, scalability, functionality and reliability, VB.NET is positioned to be the most productive tool in a programmer's toolbox. VB.NET Developer's Guide is written for previous Visual Basic Programmers looking to harness the power of the new features and functionality incorporated in Visual Basic.NET. Timely coverage of newly released product which Visual Basic users will be eager to learn VB.NET Developer's Guide is one of the first comprehensive reference for programmers and developers anxious to learn about the new technology

Ace preparation for the skills measured by MCTS Exam 70-516--and on the job--with this official Microsoft study guide. Users work

at their own pace through a series of lessons and reviews that fully cover each exam objective. Then, they reinforce and apply what they've learned through real-world case scenarios and practice exercises. Includes CD.

Dig into LINQ -- and transform the way you work with data. With LINQ, you can query data from a variety of sources -- including databases, objects, and XML files -- directly from Microsoft Visual Basic or C#. Guided by data-access experts who've worked in depth with LINQ and the Microsoft development teams, you'll learn how .NET Framework 4 implements LINQ, and how to exploit it. Clear examples show you how to deliver your own data-access solutions faster and with leaner code. Discover how to: Use LINQ to query databases, object collections, arrays, XML, Microsoft Excel files, and other sources Apply LINQ best practices to build data-enabled .NET applications and services Manipulate data in a relational database with ADO.NET Entity Framework or LINQ to SQL Read, write, and manage XML content more efficiently with LINQ to XML Extend LINQ to support additional data sources by creating custom operators and providers Examine other implementations, such as LINQ to SharePoint Use LINQ within the data, business, and service layers of a distributed application Get code samples on the Web

ADO.NET revolutionized the way data was accessed through SQL Server, Oracle, and MySQL. With Microsoft's release of ADO.NET 2, ADO and the .NET Framework are integrated with SQL Server for the first time-enabling you to program .NET applications directly within the SQL Server database. Packed with sample code and recommended best practices for using ADO.NET 2, this code-intensive book explores the new data types that are available in the 2.0 Framework and discusses the appropriate time and way to use them. You'll learn how to make repetitive, mundane tasks much simpler and you'll walk away with a solid foundation for developing database-driven applications. What you will learn from this book The basics of creating a connection, executing a query, and returning a result Best uses for Oracle in the ADO.NET Framework The many new features that are available for XML How to use the full text search capabilities of Microsoft(r) SQL Server 2005 Methods for retrieving data and presenting it in various ways Why MySQL is a viable option for data storage Who this book is for This book is for experienced database developers who want to learn the latest release of ADO.NET 2.0. Knowledge of ADO.NET 1.0, general .NET development, and Microsoft SQL Server is necessary. Wrox Professional guides are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job.

Dive in for reference where you need it—and learn the intricacies of developing sleeker, more robust, security-enhanced applications in ADO.NET 2.0. Featuring code samples in Microsoft Visual C# and Visual Basic, this reference goes beyond the fundamentals to help professional developers solve sophisticated enterprise development problems. Discover how to: Examine advanced connectivity options and best practices—including connection pooling, clustered connections, and asynchronous access Use tracing to diagnose application flow and performance issues Resolve concurrency conflicts and implement a data access layer Implement seamless application failover from one Microsoft SQL Server database to another Use managed code and the SQLCLR to create stored procedures, user-defined functions and types, aggregates, and triggers Write effective data-caching code to improve application performance Use the Systems.Transactions namespace to work with Microsoft SQL Server 2005 Implement streaming techniques to “chunk” data Apply various methods to extract and modify XML data PLUS—Get code samples on the Web

This guide is strikingly different from other books on Microsoft ADO.NET. Rather than load you down with theory, the new edition of ADO.NET 3.5 Cookbook gives you more than 200 coding solutions and best practices for real problems you're likely to face with this technology using Visual Studio 2008 and the .NET 3.5 platform. Organized to help you find the topic and specific recipe you need quickly and easily, this book is more than just a handy compilation of cut-and-paste C# code. ADO.NET 3.5 Cookbook also offers clear explanations of how and why each code solution works, and warns you of potential pitfalls so you can learn to adapt the book's problem-solving techniques to different situations. This collection of timesaving recipes covers vital topics including: Connecting to data Retrieving and managing data Transforming and analyzing data Modifying data Binding data to .NET user interfaces Optimizing .NET data access Enumerating and maintaining database objects Maintaining database integrity Ideal for ADO.NET programmers at all levels, from the relatively inexperienced to the most sophisticated, this new edition covers the significant 3.5 upgrade, including new programming tools such as LINQ. ADO.NET 3.5 Cookbook offers a painless way for those of you who prefer to learn by doing when it comes to expanding your skills and productivity. Presents step-by-step instructions on the fundamentals of Microsoft ADO.NET 2.0.

Written by experts on the Microsoft® .NET programming platform, ADO.NET in a Nutshell delivers everything .NET programmers will need to get a jump-start on ADO.NET technology or to sharpen their skills even further. In the tradition of O'Reilly's In a Nutshell Series, ADO.NET in a Nutshell is the most complete and concise source of ADO.NET information available. ADO.NET is the suite of data access technologies in the .NET Framework that developers use to build applications services accessing relational data and XML. Connecting to databases is a fundamental part of most applications, whether they are web, Windows®, distributed, client/server, XML Web Services, or something entirely different. But ADO.NET is substantially different from Microsoft's previous data access technologies--including the previous version of ADO--so even experienced developers need to understand the basics of the new disconnected model before they start programming with it. Current with the .NET Framework 1.1, ADO.NET in a Nutshell offers one place to look when you need help with anything related to this essential technology, including a reference to the ADO.NET namespaces and object model. In addition to being a valuable reference, this book provides a concise foundation for programming with ADO.NET and covers a variety of issues that programmers face when developing web applications or Web Services that rely on database access. Using C#, this book presents real world, practical examples that will help you put ADO.NET to work immediately. Topics covered in the book include: An Introduction to ADO.NET Connections, Commands and DataReaders Disconnected Data Advanced DataSets Transactions DataViews and Data Binding XML and the DataSet Included with the book is a Visual Studio .NET add-in that integrates the entire reference directly into your help files. When combining ADO.NET in a Nutshell with other books from O'Reilly's .NET In a Nutshell series, you'll have a comprehensive, detailed and independent reference collection that will help you become more productive.

Microsoft ADO.NET 2.0 Step by Step

Dan Fox's no-nonsense approach cuts to the heart of issues corporate developers need most to use ADO.NET in real-world applications. Practical Software Architecture Solutions from the Legendary Robert C. Martin ("Uncle Bob") By applying universal rules of software architecture, you can dramatically improve developer productivity throughout the life of any software system. Now, building upon the success of his best-selling books Clean Code and The Clean Coder, legendary software craftsman Robert C. Martin ("Uncle Bob") reveals those rules and helps you apply them. Martin's Clean Architecture doesn't merely present options.

Drawing on over a half-century of experience in software environments of every imaginable type, Martin tells you what choices to make and why they are critical to your success. As you've come to expect from Uncle Bob, this book is packed with direct, no-nonsense solutions for the real challenges you'll face—the ones that will make or break your projects. Learn what software architects need to achieve—and core disciplines and practices for achieving it Master essential software design principles for addressing function, component separation, and data management See how programming paradigms impose discipline by restricting what developers can do Understand what's critically important and what's merely a "detail" Implement optimal, high-level structures for web, database, thick-client, console, and embedded applications Define appropriate boundaries and layers, and organize components and services See why designs and architectures go wrong, and how to prevent (or fix) these failures Clean Architecture is essential reading for every current or aspiring software architect, systems analyst, system designer, and software manager—and for every programmer who must execute someone else's designs. Register your product for convenient access to downloads, updates, and/or corrections as they become available.

For every developer who's uttered, "I wish I knew that before I started writing all this code!" this guide demonstrates how to save time, write less code, and build more powerful, data-driven solutions using Microsoft ActiveX Data Objects. CD contains code samples in VB, along with examples in Visual C++, and Visual J++.

O'Reilly has once again updated its bestselling tutorial on ASP.NET, the world's leading web development tool from Microsoft. In Programming ASP.NET, Third Edition, authors Jesse Liberty and Dan Hurwitz give you the lowdown on the technology's latest version, ASP.NET 2.0, as well as Visual Studio 2005. Among the most significant improvements to ASP.NET 2.0 are new server controls and services that make you dramatically more productive. In fact, when compared to its predecessor, ASP.NET 2.0 reduces the amount of code you have to write by about 75%. Creating interactive web applications has never been easier—but that still doesn't mean it's hassle-free! The difficulty in ASP.NET 2.0 is that it's so complete and flexible that there are many pieces that must be woven together to build a robust, scalable, and efficient application. Fortunately, Programming ASP.NET, Third Edition is on the case, dispensing all the information you need to be effective with this dynamic tool. For starters, the book features a comprehensive tutorial on Web Forms, the user interface that gives web applications their look and feel. It then offers detailed explanations of all new controls, including web server controls, HTML controls, and custom controls. Used properly, these controls are able to take care of nearly all the foundation work—security, data access, layout, etc.—that you would normally have to write yourself. Free of these burdensome tasks, you can instead focus on your specific application. Other new material found in this updated edition even shows you how to create ASP.NET 2.0 pages for mobile devices. With Programming ASP.NET, Third Edition at your side, there's virtually no end to the programming possibilities.

Explores topics including how to use ADO.NET to access relational data stores, using the DataSet class for in-memory data representation, and mapping database information using ASP.NET WebForm.

Get a thorough introduction to ADO.NET Entity Framework 4 -- Microsoft's core framework for modeling and interacting with data

in .NET applications. The second edition of this acclaimed guide provides a hands-on tour of the framework latest version in Visual Studio 2010 and .NET Framework 4. Not only will you learn how to use EF4 in a variety of applications, you'll also gain a deep understanding of its architecture and APIs. Written by Julia Lerman, the leading independent authority on the framework, Programming Entity Framework covers it all -- from the Entity Data Model and Object Services to WCF Services, MVC Apps, and unit testing. This book highlights important changes for experienced developers familiar with the earlier version. Understand the core concepts you need to make the best use of the EF4 in your applications Learn to query your data, using either LINQ to Entities or Entity SQL Create Windows Forms, WPF, ASP.NET Web Forms, and ASP.NET MVC applications Build and consume WCF Services, WCF Data Services, and WCF RIA Services Use Object Services to work directly with your entity objects Create persistent ignorant entities, repositories, and write unit tests Delve into model customization, relationship management, change tracking, data concurrency, and more Get scores of reusable examples -- written in C# (with notes on Visual Basic syntax) -- that you can implement right away

A development guide to ADO.NET provides a tutorial, accompanied by real-world examples, and shows how to use ADO.NET across a variety of data platforms.

ADO.NET—the data-access component of the Microsoft .NET Framework—works with any component on any platform that understands XML. Get a solid handle on ADO.NET and learn how to exploit the database functionality of Microsoft Visual Basic® .NET and Microsoft Visual C#™ .NET with this step-by-step primer. You'll be working in ADO.NET right away with easy-to-grasp examples drawn from the real-world challenges developers face every day. Learn about the ADO.NET object model and how to use it to develop data-bound Windows® Forms and Web Forms. See how ADO.NET interacts with XML and how to access older versions of ADO from the .NET environment. Throughout, you'll find insightful tips and expert explanations for rapid acceleration of development productivity, faster applications, and more powerful results. Topics covered include: Getting started with ADO.NET Creating connections The Data command and DataReader Accessing data with the DataAdapter Working with DataSets Working with DataTables Controlling table views with DataViews Editing and updating data Data-binding in Windows Forms Data-binding in Web Forms Using the XML Designer to modify data structure Reading and writing XML with ADO.NET Using ADO from the .NET Framework CD features: * Examples of real-world solutions developed with ADO.NET, including sample code in Visual Basic .NET and Visual C# .NET A Note Regarding the CD or DVD The print version of this book ships with a CD or DVD. For those customers purchasing one of the digital formats in which this book is available, we are pleased to offer the CD/DVD content as a free download via O'Reilly Media's Digital Distribution services. To download this content, please visit O'Reilly's web site, search for the title of this book to find its catalog page, and click on the link below the cover image (Examples, Companion Content, or Practice Files). Note that while we provide as much of the media content as we are able via free download, we are sometimes limited by licensing restrictions. Please direct any questions or concerns to booktech@oreilly.com.

* Provides compact coverage of new ADO.NET features and use of cutting edge tools, such as Visual Studio .NET 2005. * Content and

examples take practical focus as opposed to a theoretical, academic treatment. * Heavily trimmed content eliminates information the reader won't find useful very often.

In 24 easy lessons, learn the new object model to retrieve and work with data from multiple sources.

A Programmer's Guide to ADO.NET in C# begins by taking readers through a fast-paced overview of C# and then delves into ADO.NET. Why should C# programmers use it instead of the existing technologies? What new functionality does it offer? The chapters that follow go through the details on each of the major Data Providers of the .NET platform (OleDb, SQL Server, and ODBC) that enable you to read and write data to the targeted database. These chapters also serve as a good reference for looking up detailed methods and properties for these data provider classes. Authors Chand and Gold also show C# programmers how to work with XML classes and how to integrate XML into the ADO.NET architecture. The book provides programmers with handy ideas about taking advantage of the VS.NET IDE and how you can tie your data to the myriad of powerful controls including the multi-faceted Data Grid. Finally, it goes through creating a guest book application for the Web so you can see how all the pieces fit together.

Microsoft's C# ("C sharp") is a modern, object-oriented programming language built from the ground up to exploit the power of XML-based Web services on Microsoft's new .NET platform. With its Visual C++ development system heritage, C# will enable millions of C and C++ developers to use existing skills to rapidly build sophisticated XML-based .NET applications. Why Will Web Developers Switch to C#? ...Because it's the ideal solution for C and C++ programmers who need to combine rapid development with the power to access all the functionality of the Microsoft.NET platform. They want an environment that is completely in sync with emerging Web standards and one that provides easy integration with existing applications. C#.net Web Developer's Guide will enhance developer productivity and help them eliminate programming errors that can lead to increased development costs. This book teaches Web developers to quickly and easily build solutions for the Microsoft .NET platform. Web developers will learn to use C# components to build Web services and applications that are available across the Internet, from any application running on any platform. * Timely coverage of newly released product - programmers and developers are anxious to learn about the new technology * Comes with Syngress' revolutionary wallet-sized CD containing a printable HTML version of the book and all of the source code examples and demos of popular C# upgrade and programming tools

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