

Linq In Net Framework 4

Joe Hummel

Programming Microsoft LINQ in .NET Framework 4

Marco Russo, Paolo Pialorsi, 2010-11-23 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

Programming Microsoft Linq in Microsoft .net

Framework 4 Paolo Pialorsi, Marco Russo, 2017-07-16 Learn to use LINQ to simplify the process of coding and querying in C#. LINQ will guide you through the process, from conceptual understanding to practical implementation. With the help of author Jason Roberts, you will be streamlining your coding and querying practices in no time. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required

reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

LINQ for Visual C# 2008 Fabio Claudio

Ferracchiati,2008-10-11 Every C# programmer needs to learn about LINQ (Language-Integrated Query), Microsoft's breakthrough technology for simplifying and unifying data access from any data source. With LINQ, you can write more elegant and flexible code—not just to access databases and files, but to manipulate data structures and XML. This book is a short, yet comprehensive guide to the major features of LINQ and the significant enhancements introduced with .NET 3.5. There is no better source for getting a head-start on the future of these technologies than this book. A clear and comprehensive yet concise introduction to using LINQ in C# Covers LINQ to Objects, LINQ to SQL, LINQ to DataSet, and LINQ to XML Rich in working examples of LINQ in action Ideal for C# programmers at any level

LINQ For Dummies John Paul Mueller,2009-02-25 If you've asked yourself "Why can't I develop database and XML queries in a language I already know?", then Language INtegrated Query, or LINQ, is for you. LINQ For Dummies introduces you to LINQ and the .NET Framework technologies, so you can use LINQ to query any object, any data set, any kind of XML, and SQL Server—no questions asked. This plain-English guide gives you a thorough overview of LINQ, from understanding the tasks it performs to making LINQ work with both Visual Basic and Visual Studio 2005. It explains the four LINQ providers in the .NET Framework, the easiest ways to go about accessing data, and how to write more efficient applications with less code using LINQ. There's also clear guidance on combining third-party providers with LINQ to create even more powerful apps. With this single, comprehensive guide, you'll discover how to: Use one query language with all Microsoft languages Examine .NET language extensions and work with extension methods, partial methods, lambda expressions, and query expressions LINQ to DataSet operators, SQL server

operations, XML API, or Active Directory Deal with databases — download and install the Northwind database, generate Northwind entity classes, and create the Northwind XML mapping file Create the partial class example, the partial method example, and the database modification example Use objects with LINQ Query databases in Visual Basic and C# As an added bonus, you can visit the companion Web site for LINQ examples in C# and Visual Basic. With LINQ For Dummies, you'll link up with LINQ in no time and see how you can query almost anything! Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

LINQ Pocket Reference Joseph Albahari, Ben

Albahari, 2008-02-26 Ready to take advantage of LINQ with C# 3.0? This guide has the detail you need to grasp Microsoft's new querying technology, and concise explanations to help you learn it quickly. And once you begin to apply LINQ, the book serves as an on-the-job reference when you need immediate reminders. All the examples in the LINQ Pocket Reference are preloaded into LINQPad, the highly praised utility that lets you work with LINQ interactively. Created by the authors and free to download, LINQPad will not only help you learn LINQ, it will have you thinking in LINQ. This reference explains: LINQ's key concepts, such as deferred execution, iterator chaining, and type inference in lambda expressions The differences between local and interpreted queries C# 3.0's query syntax in detail—including multiple generators, joining, grouping, query continuations, and more Query syntax versus lambda syntax, and mixed syntax queries Composition and projection strategies for complex queries All of LINQ's 40-plus query operators How to write efficient LINQ to SQL queries How to build expression trees from scratch All of LINQ to XML's types and their advanced use LINQ promises to be the locus of a thriving ecosystem for many years to come. This small book gives you a huge head start. The authors built a tool (LINQPad) that lets you experiment with LINQ

interactively in a way that the designers of LINQ themselves don't support, and the tool has all kinds of wonderful features that LINQ, SQL and Regular Expression programmers alike will want to use regularly long after they've read the book.-Chris Sells, Connected Systems Program Manager, Microsoft

Essential LINQ Charlie Calvert, Dinesh Kulkarni, 2009-03-12

"Charlie and Dinesh bring important skills to this project that enable them to show how LINQ works and the practical ways you can use it in your daily development process." From the Foreword by Anders Hejlsberg LINQ is one of Microsoft's most exciting, powerful new development technologies. *Essential LINQ* is the first LINQ book written by leading members of Microsoft's LINQ and C# teams. Writing for architects, developers, and development managers, these Microsoft insiders share their intimate understanding of LINQ, revealing new patterns and best practices for getting the most out of it. Calvert and Kulkarni begin by clearly explaining how LINQ resolves the long-time "impedance mismatch" between object-oriented code and relational databases. Next, they show how LINQ integrates querying into C# as a "first-class citizen." Using realistic code examples, they show how LINQ provides a strongly typed, IntelliSense-aware technology for working with data from any source, including SQL databases, XML files, and generic data structures. Calvert and Kulkarni carefully explain LINQ's transformative, composable, and declarative capabilities. By fully illuminating these three concepts, the authors allow developers to discover LINQ's full power. In addition to covering core concepts and hands-on LINQ development in C# with LINQ to Objects, LINQ to XML, LINQ to SQL, and LINQ to Entities, they also present advanced topics and new LINQ implementations developed by the LINQ community. This book • Explains the entire lifecycle of a LINQ project: design, development, debugging, and much more • Teaches LINQ from both a practical and theoretical perspective • Leverages C# language features

that simplify LINQ development • Offers developers powerful LINQ query expressions to perform virtually any data-related task • Teaches how to query SQL databases for objects and how to modify those objects • Demonstrates effective use stored procedures and database functions with LINQ • Shows how to add business logic that reflects the specific requirements of your organization • Teaches developers to create, query, and transform XML data with LINQ • Shows how to transform object, relational, and XML data between each other • Offers best patterns and practices for writing robust, easy-to-maintain LINQ code

LINQ for Visual C# 2005 Fabio Claudio

Ferracchiati, 2007-12-24 Every C# programmer needs to learn about LINQ (Language-Integrated Query), Microsoft's breakthrough technology for simplifying and unifying data access from any data source. It is the first step into the future of .NET programming. This book is a short yet comprehensive guide to the major features of LINQ, which provide significant enhancements to the next versions of C#, .NET, and ADO.NET and are available today for production programming. There is no better source for getting a headstart on the future of these technologies than this book.

LINQ to Objects Using C# 4.0 Troy Magennis, 2010-03-02

Your Complete Example-Rich Guide to Using and Extending LINQ to Objects and PLINQ Using LINQ to Objects, .NET developers can write queries over object collections with the same deep functionality that was once available only with SQL and relational databases. Now, for the first time, developers have a comprehensive and authoritative guide to applying LINQ to Objects in real-world software. Microsoft MVP Troy Magennis introduces state-of-the-art techniques for working with in-memory collections more elegantly and efficiently—and writing code that is exceptionally powerful, robust, and flexible. Drawing on his unsurpassed experience coding software using LINQ and hosting

the popular HookedOnLINQ.com site, Magennis presents timely, realistic solutions to a wide spectrum of development challenges, such as combining data from multiple sources, and achieving optimal performance with extremely large sets of data. You'll begin with brief quick-starts that walk you through LINQ to Objects' key features and query syntax. Next, you'll drill down to detailed techniques for applying and extending these features with C# 4.0 and C# 3.0—including code examples that reflect the realities of production development. Coverage includes Writing basic LINQ queries with C#: filtering, projecting, and sorting data from in-memory collections Mastering advanced techniques for grouping and joining data and understanding the performance implications of each technique Taking full advantage of LINQ's standard query operators Creating custom query operators that follow best practices for coding patterns and error handling Writing more fluent, readable LINQ queries with C# 4.0's language enhancements, including the new dynamic features Combining LINQ with COM-Interop to access data sources such as Microsoft Excel Using Parallel LINQ to Objects (PLINQ) to optimize queries for multi-core processors, and how to build custom parallel query operators Integrating the best LINQ to Objects patterns into your day-to-day coding

LINQifying TheBeerHouse Lee Dumond,2010-11-18

TheBeerHouse website from ASP.NET 2.0 Website Programming: Problem-Design-Solution gets the ASP.NET 3.5 treatment with two unique approaches to applying LINQ to SQL to data access. You'll take advantage of the original application's data provider model to develop a custom LINQ to SQL provider for the Articles module then try a different approach, while learning how to develop an ASP.NET 3.5 application using a purely LINQ-based three-tier model. You'll learn about LINQ to Objects; new features of the C# 3.0 language and .NET Framework 3.5 like object initializers, collection initializers, automatic properties, extension methods, lambda expressions, anonymous types, query and

method syntax; the IQueryable interface; and deferred execution. You'll learn how to upgrade an existing ASP.NET 2.0 application to ASP.NET 3.5, how to create LINQ to SQL entities from an existing database, and how to extend those entities to provide custom functionality. You'll learn to create a faster, more responsive website with LINQ to SQL, including how to use time stamps to speed up concurrency checking, how to take advantage of the ASP.NET view state, how to replace deprecated data-bound controls with better ones, how to pass queries properly between methods, how to return the right data to your user interface, how to streamline your data access methods, and how to compose the most efficient LINQ to SQL queries possible. Table of Contents
What Is LINQ? New C# 3.0 Language Features New .NET Framework 3.5 Features Part 1: Creating a Data Access Provider Using LINQ to SQL What You'll Need Preparing the Application Preparing the LINQ to SQL Entity Classes Writing a New LINQ to SQL Provider Part 2: Creating a New LINQ-Based N-Tier Model Application Structure Overview Methods That Work with Categories Methods That Work with Comments Methods That Work with Articles Which Way Is Better? Where to Go from Here More Things You Can Try in TheBeerHouse The Future of LINQ

Introducing Microsoft LINQ Paolo Pialorsi,Marco

Russo,2007 Get a head start on using the Microsoft Language Integrated Query (LINQ) Project with advance insights from two experienced developers. Data-rich applications can be difficult to create because of the tremendous differences between query languages used to access data and programming languages commonly used to write applications. This practical guide introduces LINQ, a set of extensions to the Microsoft Visual C# and Microsoft Visual Basic programming languages. Instead of traversing different language syntaxes required for accessing data from relational and hierarchical data sources, developers will learn how to write queries natively in C# or Visual Basic. Written by two experienced developers with strong ties to

Microsoft's developer teams, this book introduces the LINQ architecture and classes, describes the new language features in both C# and Visual Basic, and provides code samples in both languages.

Accessing Data with Microsoft® . Net Framework 4 Glenn Johnson, 2011 EXAM PREP GUIDE Ace your preparation for the skills measured by MCTS Exam 70-516 - and on the job - with this official Microsoft study guide. Work at your own pace through a series of lessons and reviews that fully cover each exam objective. Then, reinforce and apply what you've learned through real-world case scenarios and practice exercises.

Professional ADO.NET 3.5 with LINQ and the Entity Framework Roger Jennings, 2009-02-03 Language Integrated Query (LINQ), as well as the C# 3.0 and VB 9.0 language extensions to support it, is the most important single new feature of Visual Studio 2008 and the .NET Framework 3.x. LINQ is Microsoft's first attempt to define a universal query language for a diverse set of in-memory collections of generic objects, entities persisted in relational database tables, and element and attributes of XML documents or fragments, as well as a wide variety of other data types, such as RSS and Atom syndication feeds. Microsoft invested millions of dollars in Anders Hejlsberg and his C# design and development groups to add new features to C# 3.0—such as lambda expressions, anonymous types, and extension methods—specifically to support LINQ Standard Query Operators (SQOs) and query expressions as a part of the language itself. Corresponding additions to VB 9.0 followed the C# team's lead, but VB's implementation of LINQ to XML offers a remarkable new addition to the language: XML literals. VB's LINQ to XML implementation includes XML literals, which treat well-formed XML documents or fragments as part of the VB language, rather than requiring translation of element and attribute names and values from strings to XML DOM nodes and values. This book concentrates on hands-on development of

practical Windows and Web applications that demonstrate C# and VB programming techniques to bring you up to speed on LINQ technologies. The first half of the book covers LINQ Standard Query Operators (SQOs) and the concrete implementations of LINQ for querying collections that implement generic IEnumerable, IQueryable, or both interfaces. The second half is devoted to the ADO.NET Entity Framework, Entity Data Model, Entity SQL (eSQL) and LINQ to Entities. Most code examples emulate real-world data sources, such as the Northwind sample database running on SQL Server 2005 or 2008 Express Edition, and collections derived from its tables. Code examples are C# and VB Windows form or Web site/application projects not, except in the first chapter, simple command-line projects. You can't gain a feel for the behavior or performance of LINQ queries with Hello World projects that process arrays of a few integers or a few first and last names. This book is intended for experienced .NET developers using C# or VB who want to gain the maximum advantage from the query-processing capabilities of LINQ implementations in Visual Studio 2008—LINQ to Objects, LINQ to SQL, LINQ to DataSets, and LINQ to XML—as well as the object/relational mapping (O/RM) features of VS 2008 SP1's Entity Framework/Entity Data Model and LINQ to Entities and the increasing number of open-source LINQ implementations by third-party developers. Basic familiarity with generics and other language features introduced by .NET 2.0, the Visual Studio integrated development environment (IDE), and relational database management systems (RDBMSs), especially Microsoft SQL Server 200x, is assumed. Experience with SQL Server's Transact-SQL (T-SQL) query language and stored procedures will be helpful but is not required. Proficiency with VS 2005, .NET 2.0, C# 2.0, or VB 8.0 will aid your initial understanding of the book's C# 3.0 or VB 9.0 code samples but isn't a prerequisite. Microsoft's .NET code samples are primarily written in C#. All code samples in this book's chapters and sample projects have C#

and VB versions unless they're written in T-SQL or JavaScript. Professional ADO.NET 3.5: LINQ and the Entity Framework concentrates on programming the System.Linq and System.Linq.Expressions namespaces for LINQ to Objects, System.Data.Linq for LINQ to SQL, System.Data.Linq for LINQ to DataSet, System.Xml.Linq for LINQ to XML, and System.Data.Entity and System.Web.Entity for EF's Entity SQL. Taking a New Approach to Data Access in ADO.NET 3.5, uses simple C# and VB code examples to demonstrate LINQ to Objects queries against in-memory objects and databinding with LINQ-populated generic List collections, object/relational mapping (O/RM) with LINQ to SQL, joining DataTables with LINQ to DataSets, creating EntitySets with LINQ to Entities, querying and manipulating XML InfoSets with LINQ to XML, and performing queries against strongly typed XML documents with LINQ to XSD. Understanding LINQ Architecture and Implementation, begins with the namespaces and C# and VB language extensions to support LINQ, LINQ Standard Query Operators (SQOs), expression trees and compiled queries, and a preview of domain-specific implementations. C# and VB sample projects demonstrate object, array, and collection initializers, extension methods, anonymous types, predicates, lambda expressions, and simple query expressions. Executing LINQ Query Expressions with LINQ to Objects, classifies the 50 SQOs into operator groups: Restriction, Projection, Partitioning, Join, Concatenation, Ordering, Grouping, Set, Conversion, and Equality, and then lists their keywords in C# and VB. VS 2008 SP1 includes C# and VB versions of the LINQ Project Sample Query Explorer, but the two Explorers don't use real-world collections as data sources. This describes a LINQ in-memory object generator (LIMOG) utility program that writes C# 3.0 or VB 9.0 class declarations for representative business objects that are more complex than those used by the LINQ Project Sample Query Explorers. Sample C# and VB queries with these business objects as data sources are

more expressive than those using arrays of a few integers or last names. Working with Advanced Query Operators and Expressions, introduces LINQ queries against object graphs with entities that have related (associated) entities. This begins with examples of aggregate operators, explains use of the Let temporary local variable operator, shows you how to use Group By with aggregate queries, conduct the equivalent of left outer joins, and take advantage of the Contains() SGO to emulate SQL's IN() function. You learn how to compile queries for improved performance, and create mock object classes for testing without the overhead of queries against relational persistence stores. Using LINQ to SQL and the LinqDataSource, introduces LINQ to SQL as Microsoft's first O/RM tool to reach released products status and shows you how to autogenerate class files for entity types with the graphical O/R Designer or command-line SqlMetal.exe. This also explains how to edit *.dbml mapping files in the Designer or XML Editor, instantiate DataContext objects, and use LINQ to SQL as a Data Access Layer (DAL) with T-SQL queries or stored procedures. Closes with a tutorial for using the ASP.NET LinqDataSource control with Web sites or applications. Querying DataTables with LINQ to DataSets, begins with a comparison of DataSet and DataContext objects and features, followed by a description of the DataSetExtensions. Next comes querying untyped and typed DataSets, creating lookup lists, and generating LinqDataViews for databinding with the AsDataView() method. This ends with a tutorial that shows you how to copy LINQ query results to DataTables. Manipulating Documents with LINQ to XML, describes one of LINQ most powerful capabilities: managing XML Infosets. This demonstrates that LINQ to XML has query and navigation capabilities that equal or surpasses XQuery 1.0 and XPath 2.0. It also shows LINQ to XML document transformation can replace XQuery and XSLT 1.0+ in the majority of common use cases. You learn how to use VB 9.0's XML literals to construct XML documents, use GroupJoin() to produce

hierarchical documents, and work with XML namespaces in C# and VB. Exploring Third-Party and Emerging LINQ Implementations, describes Microsoft's Parallel LINQ (also called PLINQ) for taking advantage of multiple CPU cores in LINQ to Objects queries, LINQ to REST for translating LINQ queries into Representational State Transfer URLs that define requests to a Web service with the HTML GET, POST, PUT, and DELETE methods, and Bart De Smet's LINQ to Active Directory and LINQ to SharePoint third-party implementations. Raising the Level of Data Abstraction with the Entity Data Model, starts with a guided tour of the development of EDM and EF as an O/RM tool and heir apparent to ADO.NET DataSets, provides a brief description of the entity-relationship (E-R) data model and diagrams, and then delivers a detailed analysis of EF architecture. Next comes an introduction to the Entity SQL (eSQL) language, eSQL queries, client views, and Object Services, including theObjectContext, MetadataWorkspace, and ObjectStateManager. Later chapters describe eSQL and these objects in greater detail. Two C# and VB sample projects expand on the eSQL query and Object Services sample code. Defining Conceptual, Mapping, and Storage Schema Layers, provides detailed insight into the structure of the *.edmx file that generates the *.ssdl (storage schema data language), *.msl (mapping schema language), and *.csdl files at runtime. You learn how to edit the *.edmx file manually to accommodate modifications that the graphic EDM Designer can't handle. You learn how to implement the Table-per-Hierarchy (TPH) inheritance model and traverse the MetadataWorkspace to obtain property values. Four C# and VB sample projects demonstrate mapping, substituting stored procedures for queries, and TPH inheritance. Introducing Entity SQL, examines EF's new eSQL dialect that adds keywords to address the differences between querying entities and relational tables. You learn to use Zlatko Michaelov's eBlast utility to write and analyze eSQL queries, then dig into differences between

eSQL and T-SQL SELECT queries. (eSQL v1 doesn't support INSERT, UPDATE, DELETE and other SQL Data Manipulation Language constructs). You execute eSQL queries against the EntityClient, measure the performance hit of eSQL compared to T-SQL, execute parameterize eSQL queries, and use SQL Server Compact 3.5 as a data store. C# and VB Sample projects demonstrate the programming techniques. Taking Advantage of Object Services and LINQ to Entities, concentrates manipulating the Object Services API'sObjectContext. It continues with demonstrating use of partial classes for the ModelNameEntities and EntityName objects, executing eSQL ObjectQuerys, and deferred or eager loading of associated entities, including ordering and filtering the associated entities. Also covers instructions for composing QueryBuilder methods for ObjectQuerys, LINQ to Entities queries, and parameterizing ObjectQuerys. Updating Entities and Complex Types, shows you how to perform create, update, and delete (CUD) operations on EntitySets and manage optimistic concurrency conflicts. It starts with a detailed description of the ObjectContext.ObjectStateManager and its child objects, which perform object identification and change tracking operations with EntityKeys. This also covers validation of create and update operations, optimizing the DataContext lifetime, performing updates with stored procedures, and working with complex types. Binding Data Controls to the ObjectContext, describes creating design-time data sources from ObjectContext.EntitySet instances, drag-and-drop addition of BindingNavigator, BindingSource, bound TextBox, and DataGridView controls to Windows forms. You also learn how to update EntityReference and EntitySet values with ComboBox columns in DataGridView controls. (You can't update EntitySet values directly; you must delete and add a new member having the required value). This concludes with a demonstration of the use of the ASP.NET EntityDataSource control bound to GridView and DropDownList controls. Using the

Entity Framework As a Data Source, concentrates on using EF as a data source for the ADO.NET Data Services Framework (the former codename Project Astoria remains in common use), which is the preferred method for deploying EF v1 as a Web service provider. (EF v2 is expected to be able to support n-tier data access with Windows Communication Foundation [WCF] directly). A Windows form example uses Astoria's .NET 3.5 Client Library to display and update entity instances with the Atom Publication (AtomPub or APP) wire format. The Web form project uses the AJAX Client Library and JavaScript Object Notation (JSON) as the wire format.

Programming Microsoft LINQ Paolo Pialorsi,Marco Russo,2008 Get comprehensive guidance for using the Microsoft Language Integrated Query (LINQ) Project--with in-depth insights from two experienced developers. Data-rich applications can be difficult to create because of the tremendous differences between query languages used to access data and the programming languages commonly used to write applications. This practical guide covers the intricacies of LINQ, a set of extensions to the Visual C# and Visual Basic programming languages. Instead of traversing different language syntaxes required for accessing data from relational and hierarchical data sources, developers will learn how to write queries natively in Visual C# or Visual Basic--helping reduce complexity and boost productivity. Written by two experienced developers with strong ties to the developer teams at Microsoft, this book describes the LINQ architecture and classes, details the new language features in both Visual C# and Visual Basic, and provides code samples in both languages.

LINQ Unleashed Paul Kimmel,2008-08-19 Foreword by Darryl Hogan, Architect Evangelist, Microsoft Corporation Microsoft's highly anticipated LINQ query technology makes it easy to retrieve any information programmatically from any data source, no matter where it comes from or how it's stored. Using LINQ, developers can query objects, relational databases, XML

documents, and ADO.NET datasets--and do it all directly from C# 3.0, leveraging the powerful capabilities of LINQ. This is a definitive guide to getting real-world results with LINQ, using C# 3.0 and Visual Studio 2008. In LINQ Unleashed, Microsoft MVP Paul Kimmel covers every facet of LINQ programming, showing how LINQ can help you dramatically improve your productivity and build more reliable, maintainable applications. Kimmel begins by reviewing the state-of-the-art C# programming techniques LINQ uses, including anonymous types, partial methods, and Lambda expressions. Next, using realistic examples and easy-to-adapt sample code, he details the most powerful new LINQ techniques for accessing objects, databases, and XML. You'll gain a deep and practical understanding of how LINQ works "under the hood"--and learn how to do everything from selecting data through integrating XML with other data models. Build efficient LINQ queries to .NET objects, SQL databases, and XML content Utilize anonymous types to reduce design time, coding effort, and debugging time Automatically generate .NET state machines with the new yield return construct Master LINQ query syntax, operators, extension methods, sorting, grouping, aggregate and set operations, and more Make the most of select--and use it in the business layer of your n-tier applications Query relational data stored in Microsoft SQL Server Use nullable types to eliminate unnecessary database access plumbing code Use LINQ with ADO.NET 3.0 and Microsoft's powerful new Entity Framework Extract XML data without the hassles or complexity of XPath Automatically construct XML from CSV files and other non-XML data Query Active Directory by extending LINQ

LINQ: The Future of Data Access in C# 3.0 Joe

Hummel, 2006-10-26 Language Integrated Query (LINQ) is Microsoft's new technology for powerful, general purpose data access. This technology provides a fully-integrated query language, available in both C# 3.0 and VB 9.0, for high-level data access against objects, relational databases, and XML documents.

In this Short Cut you'll learn about LINQ and the proposed C# 3.0 extensions that support it. You'll also see how you can use LINQ and C# to accomplish a variety of tasks, from querying objects to accessing relational data and XML. Best of all, you'll be able to test the examples and run your own code using the latest LINQ CTP, available free from Microsoft. This Short Cut includes a complete reference to the standard LINQ query operators.

Entity Framework 4 in Action Marco De Sanctis, Stefano Mostarda, Daniele Bochicchio, 2011-04-30 Summary Entity Framework 4 in Action is an example-rich tutorial for .NET developers with full coverage of EF 4 features. The book begins with a review of the core ideas behind the ORM model and shows through detailed examples and larger case studies how Entity Framework offers a smooth transition from a traditional ADO.NET approach. About the Technology Entity Framework builds on the ADO.NET persistence model and the language features of LINQ to create a powerful persistence mechanism that bridges the gap between relational databases and object-oriented languages. About the Book Entity Framework 4 in Action is an example-rich tutorial that helps .NET developers learn and master the subject. It begins by explaining object/relational mapping and then shows how you can easily transition to EF from ADO.NET. Through numerous focused examples and two larger case studies, the book unfolds the EF story in a clear, easy-to-follow style. Infrastructure and inner workings of EF are discussed when you need them to understand a particular feature. This book is written for .NET developers. Knowledge of ADO.NET is helpful but not required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Full coverage of EF 4 features Layer separation, Data Layer, and Domain Model Best practices Table of Contents PART 1 REDEFINING YOUR DATA-ACCESS STRATEGY Data access reloaded: Entity Framework Getting started with Entity Framework PART 2 GETTING STARTED WITH

ENTITY FRAMEWORK Querying the object model: the basics
Querying with LINQ to Entities Domain model mapping
Understanding the entity lifecycle Persisting objects into the
database Handling concurrency and transactions PART 3
MASTERING ENTITY FRAMEWORK An alternative way of
querying: Entity SQL Working with stored procedures Working
with functions and views Exploring EDM metadata Customizing
code and the designer

Professional ASP.NET 4 in C# and VB Bill Evjen, Scott
Hanselman, Devin Rader, 2010-03-08 This book was written to
introduce you to the features and capabilities that ASP.NET 4
offers, as well as to give you an explanation of the foundation that
ASP.NET provides. We assume you have a general understanding
of Web technologies, such as previous versions of ASP.NET,
Active Server Pages 2.0/3.0, or JavaServer Pages. If you
understand the basics of Web programming, you should not have
much trouble following along with this book's content. If you are
brand new to ASP.NET, be sure to check out *Beginning ASP.NET
4: In C# and VB* by Imar Spaanjaars (Wiley Publishing, Inc., 2010)
to help you understand the basics. In addition to working with
Web technologies, we also assume that you understand basic
programming constructs, such as variables, For Each loops, and
object-oriented programming. You may also be wondering
whether this book is for the Visual Basic developer or the C#
developer. We are happy to say that it is for both! When the code
differs substantially, this book provides examples in both VB and
C#. This book explores the 4 release of ASP.NET. It covers each
major new feature included in ASP.NET 4 in detail. The following
list tells you something about the content of each chapter.
Chapter 1, "Application and Page Frameworks." The first chapter
covers the frameworks of ASP.NET applications as well as the
structure and frameworks provided for single ASP.NET pages.
This chapter shows you how to build ASP.NET applications using
IIS or the built-in Web server that comes with Visual Studio 2010.

This chapter also shows you the folders and files that are part of ASP.NET. It discusses ways to compile code and shows you how to perform cross-page posting. This chapter ends by showing you easy ways to deal with your classes from within Visual Studio 2010. Chapters 2, 3, and 4. These three chapters are grouped together because they all deal with server controls. This batch of chapters starts by examining the idea of the server control and its pivotal role in ASP.NET development. In addition to looking at the server control framework, these chapters delve into the plethora of server controls that are at your disposal for ASP.NET development projects. Chapter 2, "ASP.NET Server Controls and Client-Side Scripts," looks at the basics of working with server controls. Chapter 3, "ASP.NET Web Server Controls," covers the controls that have been part of the ASP.NET technology since its initial release and the controls that have been added in each of the ASP.NET releases. Chapter 4, "Validation Server Controls," describes a special group of server controls: those for validation. Chapter 5, "Working with Master Pages." Master pages provide a means of creating templated pages that enable you to work with the entire application, as opposed to single pages. This chapter examines the creation of these templates and how to apply them to your content pages throughout an ASP.NET application. Chapter 6, "Themes and Skins." The Cascading Style Sheet files you are allowed to use in ASP.NET 1.0/1.1 are simply not adequate in many regards, especially in the area of server controls. This chapter looks at how to deal with the styles that your applications require and shows you how to create a centrally managed look-and-feel for all the pages of your application by using themes and the skin files that are part of a theme. Chapter 7, "Data Binding." One of the more important tasks of ASP.NET is presenting data, and this chapter looks at the underlying capabilities that enable you to work with the data programmatically before issuing the data to a control. Chapter 8, "Data Management with ADO.NET." This chapter presents the

ADO.NET data model provided by ASP.NET, which allows you to handle the retrieval, updating, and deleting of data quickly and logically. Chapter 9, "Querying with LINQ." The .NET Framework 4 includes a nice access model language called LINQ. LINQ is a set of extensions to the .NET Framework that encompass language-integrated query, set, and transform operations. This chapter introduces you to LINQ and how to effectively use this feature in your Web applications today. Chapter 10, "Working with XML and LINQ to XML." The .NET Framework and ASP.NET 4 have many capabilities built into their frameworks that enable you to easily extract, create, manipulate, and store XML. This chapter takes a close look at the XML technologies built into ASP.NET and the underlying .NET Framework. Chapter 11, "Introduction to the Provider Model." The provider model is built into ASP.NET to make the lives of developers so much easier and more productive than ever before. This chapter gives an overview of this provider model and how it is used throughout ASP.NET 4. Chapter 12, "Extending the Provider Model." After an introduction of the provider model, this chapter looks at some of the ways to extend the provider model found in ASP.NET 4. This chapter also reviews a couple of sample extensions to the provider model. Chapter 13, "Site Navigation." Most developers do not simply develop single pages—they build applications. One of the application capabilities provided by ASP.NET 4 is the site navigation system covered in this chapter. Chapter 14, "Personalization." Developers are always looking for ways to store information pertinent to the end user. After it is stored, this personalization data has to be persisted for future visits or for grabbing other pages within the same application. The ASP.NET team developed a way to store this information—the ASP.NET personalization system. The great thing about this system is that you configure the entire behavior of the system from the web.config file. Chapter 15, "Membership and Role Management." This chapter covers the membership and role management

system developed to simplify adding authentication and authorization to your ASP.NET applications. This chapter focuses on using the web.config file for controlling how these systems are applied, as well as on the server controls that work with the underlying systems. Chapter 16, "Portal Frameworks and Web Parts." This chapter explains Web Parts—a way of encapsulating pages into smaller and more manageable objects. Chapter 17, "HTML and CSS Design with ASP.NET." Visual Studio 2010 places a lot of focus on building a CSS-based Web. This chapter takes a close look at how you can effectively work with HTML and CSS design for your ASP.NET applications. Chapter 18, "ASP.NET AJAX." AJAX is an acronym for Asynchronous JavaScript and XML. In Web application development, it signifies the capability to build applications that make use of the XMLHttpRequest object. Visual Studio 2010 contains the ability to build AJAX-enabled ASP.NET applications from the default install of the IDE. This chapter takes a look at this way to build your applications. Chapter 19, "ASP.NET AJAX Control Toolkit." Along with the capabilities to build ASP.NET applications that make use of the AJAX technology, a series of controls is available to make the task rather simple. This chapter takes a good look at the ASP.NET AJAX Control Toolkit and how to use this toolkit with your applications today. Chapter 20, "Security." This chapter discusses security beyond the membership and role management features provided by ASP.NET 4. This chapter provides an in-depth look at the authentication and authorization mechanics inherent in the ASP.NET technology, as well as HTTP access types and impersonations. Chapter 21, "State Management." Because ASP.NET is a request-response-based technology, state management and the performance of requests and responses take on significant importance. This chapter introduces these two separate but important areas of ASP.NET development. Chapter 22, "Caching." Because of the request-response nature of ASP.NET, caching (storing previous generated results, images,

and pages) on the server becomes rather important to the performance of your ASP.NET applications. This chapter looks at some of the advanced caching capabilities provided by ASP.NET, including the SQL cache invalidation feature which is part of ASP.NET 4. This chapter also takes a look at object caching and object caching extensibility. Chapter 23, "Debugging and Error Handling." This chapter tells you how to properly structure error handling within your applications. It also shows you how to use various debugging techniques to find errors that your applications might contain. Chapter 24, "File I/O and Streams." This chapter takes a close look at working with various file types and streams that might come into your ASP.NET applications. Chapter 25, "User and Server Controls." Not only can you use the plethora of server controls that come with ASP.NET, but you can also use the same framework these controls use and build your own. This chapter describes building your own server controls and how to use them within your applications. Chapter 26, "Modules and Handlers." This chapter looks at two methods of manipulating the way ASP.NET processes HTTP requests: `HttpModule` and `HttpHandler`. Each method provides a unique level of access to the underlying processing of ASP.NET, and each can be a powerful tool for creating Web applications. Chapter 27, ASP.NET MVC. ASP.NET MVC is the latest major addition to ASP.NET and has generated a lot of excitement from the development community. ASP.NET MVC supplies you with the means to create ASP.NET using the Model-View-Controller models that many developers expect. ASP.NET MVC provides developers with the testability, flexibility, and maintainability in the applications they build. It is important to remember that ASP.NET MVC is not meant to be a replacement to the ASP.NET everyone knows and loves, but instead is simply a different way to construct your applications. Chapter 28, "Using Business Objects." Invariably, you are going to have components created with previous technologies that you do not want to rebuild but

that you do want to integrate into new ASP.NET applications. If this is the case, the .NET Framework makes incorporating your previous COM components into your applications fairly simple and straightforward. This chapter also shows you how to build .NET components instead of turning to the previous COM component architecture. Chapter 29, "ADO.NET Entity Framework." The inclusion of the ADO.NET Entity Framework in ASP.NET makes mapping objects from the database to the objects within your code significantly simpler. Using Visual Studio 2010, you are able to visually design your entity data models and then very easily access these models from code allowing the ADO.NET Entity Framework to handle the connections and transactions to the underlying database. Chapter 30, "ASP.NET Dynamic Data." This feature in ASP.NET 4 allows you to quickly and easily put together a reporting and data entry application from your database. You are also able to take these same capabilities and incorporate them into a pre-existing application. Chapter 31, "Working with Services." This chapter reveals the ease not only of building XML Web services, but consuming them in an ASP.NET application. This chapter then ventures further by describing how to build XML Web services that utilize SOAP headers and how to consume this particular type of service. Another feature in ASP.NET, ADO.NET Data Services, allows you to create a RESTful service layer using an Entity Data Model. Using this capability, you can quickly set up a service layer that allows you to expose your content as AtomPub or JSON, which will allow the consumer to completely interact with the underlying database. Chapter 32, "Building Global Applications." ASP.NET provides an outstanding way to address the internationalization of Web applications. Changes to the API, the addition of capabilities to the server controls, and even Visual Studio itself equip you to do the extra work required to more easily bring your application to an international audience. This chapter looks at some of the important items to consider when building your Web applications

for the world. Chapter 33, "Configuration." This chapter teaches you to modify the capabilities and behaviors of ASP.NET using the various configuration files at your disposal. Chapter 34, "Instrumentation." ASP.NET gives you greater capability to apply instrumentation techniques to your applications. The ASP.NET Framework includes performance counters, the capability to work with the Windows Event Tracing system, possibilities for application tracing (covered in Chapter 23 of this book), and the most exciting part of this discussion—a health monitoring system that allows you to log a number of different events over an application's lifetime. This chapter takes an in-depth look at this health monitoring system. Chapter 35, "Administration and Management." This chapter provides an overview of the GUI tools that come with ASP.NET today that enable you to manage your Web applications easily and effectively. Chapter 36, "Packaging and Deploying ASP.NET Applications." So you have built an ASP.NET application—now what? This chapter takes the building process one step further and shows you how to package your ASP.NET applications for easy deployment. Many options are available for working with the installers and compilation model to change what you are actually giving your customers. Appendix A, "Migrating Older ASP.NET Projects." This appendix focuses on migrating ASP.NET 1.x, 2.0, or 3.5 applications to the 4 Framework. Appendix B, "ASP.NET Ultimate Tools." Based on Scott Hanselman's annual Tools pick blog posting, many of the tools here will expedite your development process and, in many cases, make you a better developer. Appendix C, "Silverlight 3 and ASP.NET." Silverlight is a means to build fluid applications using XAML. This technology enables developers with really rich vector-based applications. Appendix D, Dynamic Types and Languages. As of the release of ASP.NET 4, you can now build your Web applications using IronRuby and IronPython. This appendix takes a quick look at using dynamic languages in building your Web applications. Note: CD-ROM/DVD and other

supplementary materials are not included as part of eBook file.

Microsoft ADO.NET 4 Step by Step Tim Patrick, 2010-10-25
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

LINQ in Action Steve Eichert, James B. Wooley, Fabrice Marguerie, 2008-01-31 LLINQ, Language INtegrated Query, is a new extension to the Visual Basic and C# programming languages designed to simplify data queries and database interaction. It addresses O/R mapping issues by making query operations like SQL statements part of the programming language. It also offers built-in support for querying in-memory collections like arrays or lists, XML, DataSets, and relational databases. LINQ in Action is a fast-paced, comprehensive tutorial for professional developers. This book explores what can be done with LINQ, shows how it works in an application, and addresses the emerging best practices. It presents the general purpose query facilities offered by LINQ in the upcoming C# 3.0 and VB.NET 9.0 languages. A running example introduces basic LINQ concepts. You'll then learn to query unstructured data using LINQ to XML and relational data with LINQ to SQL. Finally, you'll see how to extend LINQ for custom applications. LINQ in Action will

guide you along as you explore this new world of lambda expressions, query operators, and expression trees. As well, you'll explore the new features of C# 3.0, VB.NET 9.0. The book is very practical, anchoring each new idea with running code. Whether you want to use LINQ to query objects, XML documents, or relational databases, you will find all the information you need to get started But LINQ in Action does not stop at the basic code. This book also shows you how LINQ can be used for advanced processing of data, including coverage of LINQ's extensibility, which allows querying more data sources than those supported by default. All code samples are built on a concrete business case. The running example, LinqBooks, is a personal book cataloging system that shows you how to create LINQ applications with Visual Studio 2008. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

LINQ to Objects Using C# 4.0 Troy Magennis,2010

Reviewing **Linq In Net Framework 4**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Linq In Net Framework 4**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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