

# Building Entity Framework Generic Repository 2 Connected

Modern Data Access with Entity Framework Core  
 Practical Test-Driven Development using C# 7  
 The C# Workshop  
 Clean Architecture  
 Dependency Injection In.Net  
 Programming ASP.NET MVC 4  
 Building Xamarin.Forms Mobile Apps Using XAML  
 Murach's ASP.NET Core MVC (2nd Edition)  
 Professional ASP.NET Design Patterns  
 Hibernate Tips  
 Building Web, Cloud, and Mobile Solutions with F#  
 Beginning ASP.NET 4.5 Databases  
 Pro ASP.NET Web API  
 Implementing Domain-driven Design  
 Building Blazor WebAssembly Applications with gRPC  
 Building Web Applications with Visual Studio 2017  
 Mastering ABP Framework  
 Patterns of Enterprise Application Architecture  
 Programming Entity Framework  
 Spring Data  
 Entity Framework Core in Action  
 Computational Science and Its Applications - ICCSA 2022 Workshops  
 ASP.NET Core 5 and React  
 Practical ASP.NET Web API  
 Mastering ABP Framework  
 Entity Framework Core Cookbook  
 Programming Entity Framework  
 Beginning SOLID Principles and Design Patterns for ASP.NET Developers  
 ASP.NET Core Recipes  
 ASP.NET MVC Framework Unleashed  
 C# Programming & Software Development  
 Programming Entity Framework  
 Pro Entity Framework Core 2 for ASP.NET Core MVC  
 Pro ASP.NET MVC 3 Framework  
 Professional ADO.NET 3.5 with LINQ and the Entity Framework  
 ASP.NET Core Application Development  
 Microsoft .NET - Architecting Applications for the Enterprise  
 Entity Framework Core in Action, Second Edition  
 Domain-driven Design  
 Entity Framework 4 in Action

*Building Entity  
 Framework Generic  
 Repository 2 Connected*

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## CABRERA ABBIGAIL

[Modern Data Access with Entity Framework Core](#) Sams Publishing  
 Practical ASP.NET Web API provides you with a hands-on and code-focused demonstration of the ASP.NET Web API in action. From the very beginning, you'll be writing working code in order to see best practices and concepts in action. As the book progresses, the concepts and code will become more sophisticated. Beginning with an overview of the web service model in general and Web API in particular, you'll progress quickly to a detailed exploration of the request binding and response

formatting that lie at the heart of Web API. You'll investigate various scenarios and see how they can be manipulated to achieve the results you need. Later in the book more sophisticated themes will be introduced that will set your applications apart from the crowd. You'll learn how you can validate the request messages on arrival, how you can create loosely coupled controllers, extend the pipeline processing to compartmentalize your code for security and unit testing before being put onto a live hosting server. What you'll learn What ASP.NET Web API is and how it can be used effectively Ways to optimize your code for readability and performance What controller dependencies are and why they matter How to maintain robust

security across your projects Reliable best-practices for using Web API in a professional context Who this book is for The book is ideal for any .NET developer who wants to learn how the ASP.NET Web API framework works in a realistic setting. A good working knowledge of C# and the .NET framework and a familiarity with Visual Studio are the only pre-requisites to benefit from this book Table of Contents Building a Basic Web API Debugging HTTP Formatting CLR Objects into HTTP Response Customizing Response Binding HTTP Request into CLR Objects Validating Request Managing Controller Dependencies Extending Pipeline Hosting ASP.NET Web API Securing ASP.NET Web API Consuming ASP.NET Web API Building

Performant Web API

### **Practical Test-Driven Development using C# 7** Simon and Schuster

Build fully functional, cloud-ready, and professional web applications using the latest features in the .NET 5 framework and React.js with Microsoft Azure Key Features Explore the new features of .NET 5 with this updated edition of ASP.NET Core 5 and React Discover strategies for adopting a full-stack development approach, clean architecture techniques, and development best practices Learn how to manage data, design and package applications, and secure your web apps Book Description Microsoft's .NET framework is a robust server-side framework, now even more powerful thanks to the recent unification of the Microsoft ecosystem with the .NET 5 framework. This updated second edition addresses these changes in the .NET framework and the latest release of React. The book starts by taking you through React and TypeScript components for building an intuitive single-page application and then shows you how to design scalable REST APIs that can integrate with a React-based frontend. Next, you'll get to grips with the latest features, popular patterns, and tools available in the React ecosystem, including function-based components, React Router, and Redux. As you progress through the chapters, you'll learn how to use React with TypeScript to make the frontend robust and maintainable and cover key ASP.NET 5 features such as API controllers, attribute routing, and model binding to build a sturdy backend. In addition to this, you'll explore API security with ASP.NET 5 identity and authorization policies and write reliable unit tests using both .NET and React, before deploying your app on Azure. By the end of this book, you'll have gained the knowledge you need to enhance your C# and JavaScript skills and build full-stack, production-ready applications with ASP.NET 5 and React. What you will learn Build RESTful APIs with .NET 5 using API controllers Secure REST APIs with identity and authorization policies Create strongly typed, interactive, and function-based React components using Hooks Understand how to style React components using Emotion.js Perform client-side state management with Redux Run a range of automated tests on the frontend and backend Implement continuous integration and continuous delivery (CI/CD) processes in Azure using Azure DevOps Who this book is for If you're a web developer looking to get up to speed with full-stack web application

development with .NET Core and React, this book is for you. Although the book does not assume any knowledge of React, a basic understanding of .NET Core will help you to get to grips with the concepts covered.

*The C# Workshop* Packt Publishing Ltd Learn how to build modern web applications from the creator of ABP Framework Key Features: Build robust, maintainable, modular, and scalable software solutions using ABP Framework Learn how to implement SOLID principles and domain-driven design in your web applications Discover how ABP Framework speeds up your development cycle by automating repetitive tasks Book Description: ABP Framework is a complete infrastructure for creating modern web applications by following software development best practices and conventions. With ABP's high-level framework and ecosystem, you can implement the Don't Repeat Yourself (DRY) principle and focus on your business code. Written by the creator of ABP Framework, this book will help you to gain a complete understanding of the framework and modern web application development techniques. With step-by-step explanations of essential concepts and practical examples, you'll understand the requirements of a modern web solution and how ABP Framework makes it enjoyable to develop your own solutions. You'll discover the common requirements of enterprise web application development and explore the infrastructure provided by ABP. Throughout the book, you'll get to grips with software development best practices for building maintainable and modular web solutions. By the end of this book, you'll be able to create a complete web solution that is easy to develop, maintain, and test. What You Will Learn: Set up the development environment and get started with ABP Framework Work with Entity Framework Core and MongoDB to develop your data access layer Understand cross-cutting concerns and how ABP automates repetitive tasks Get to grips with implementing domain-driven design with ABP Framework Build UI pages and components with ASP.NET Core MVC (Razor Pages) and Blazor Work with multi-tenancy to create modular web applications Understand modularity and create reusable application modules Write unit, integration, and UI tests using ABP Framework Who this book is for: This book is for web developers who want to learn software architectures and best practices for building maintainable web-based solutions using Microsoft technologies and ABP Framework. Basic knowledge of C#

and ASP.NET Core is necessary to get started with this book.

**Clean Architecture** John Wiley & Sons Quickly find solutions to common web development problems. Content is presented in the popular problem-solution format. Look up the problem that you want to solve. Read the solution. Apply the solution directly in your own code. Problem solved! ASP.NET Core Recipes is a practical guide for developers creating modern web applications, cutting through the complexities of ASP.NET, jQuery, React, and HTML5 to provide straightforward solutions to common web development problems using proven methods based on best practices. The problem-solution approach gets you in, out, and back to work quickly while deepening your understanding of the underlying platform and how to develop with it. Author John Ciliberti guides you through the MVC framework and development tools, presenting typical challenges, along with code solutions and clear, concise explanations, to accelerate application development. Solve problems immediately by pasting in code from the recipes, or put multiple recipe solutions together to overcome challenging development obstacles. What You'll Learn Take advantage of MVC's streamlined syntax Discover how to take full control over HTML Develop a simple API for creating RESTful web services Understand test-driven development Migrate a project from ASP.NET web forms to Core MVC, including recipes for converting DataGrids, Forms, Web Parts, Master Pages, and navigation controls Use Core MVC in combination with popular JavaScript libraries, including jQuery, React, Bootstrap, and more Write unit tests for your MVC controllers, views, custom filters, and HTML helpers Utilize the latest features in Visual Studio 2017 to accelerate your Core MVC projects Identify performance bottlenecks in your MVC application Who This Book Is For Web developers of all skill levels who are looking for a programming reference for ASP.NET Core MVC and would like to gain an understanding of the inner workings of the platform. In addition, parts of this book provide guidance to developers familiar with ASP.NET Web Forms who would like to update their skill set to include Core MVC. [Dependency Injection In .Net](#) "O'Reilly Media, Inc." Explore the power of Blazor WebAssembly, gRPC, and source generators for easy and quick web development Key Features Get to grips with integration between Blazor, gRPC, and source generators in real-life

projectsDevelop a complete Blazor WebAssembly project that takes advantage of gRPC's capabilitiesExplore best practices for building a high-performance web application with Blazor and C#Book Description Building Blazor WebAssembly Applications with gRPC will take you to the next level in your web development career. After working through all the essentials of gRPC, Blazor, and source generators, you will be far from a beginner C# developer and would qualify as a developer with intermediate knowledge of the Blazor ecosystem. After a quick primer on the basics of Blazor technology, REST, gRPC, and source generators, you'll dive straight into building Blazor WASM applications. You'll learn about everything from two-way bindings and Razor syntax to project setup. The practical emphasis continues throughout the book as you steam through creating data repositories, working with REST, and building and registering gRPC services. The chapters also cover how to manage source generators, C# and debugging best practices, and more. There is no shorter path than this book to solidify your gRPC-enabled web development knowledge. By the end of this book, your knowledge of building Blazor applications with one of the most modern and powerful frameworks around will equip you with a highly sought-after skill set that you can leverage in the best way possible. What you will learnMaster routing and test your learning with demo applicationsCreate service and controller classes for your API endpointsUse gRPC with Blazor instead of REST and revamp your applicationsStudy partial classes, attributes, and more in source generatorsWrite reusable Razor components and debug your code effectivelyUnderstand the semantic model of C# codeDiscover how to read and navigate through syntax treesBuild dynamic websites without using JavaScriptWho this book is for This book is for beginner C# developers who want to learn how to create more performant web apps with less code using Blazor, the gRPC protocol, and source generators. The book assumes a basic understanding of C#, HTML, and web development concepts.

*Programming ASP.NET MVC 4* Simon and Schuster

Learn how to build modern web applications from the creator of ABP Framework Key FeaturesBuild robust, maintainable, modular, and scalable software solutions using ABP FrameworkLearn how to implement SOLID principles and domain-driven design in your web applicationsDiscover how ABP Framework speeds up your development

cycle by automating repetitive tasksBook Description ABP Framework is a complete infrastructure for creating modern web applications by following software development best practices and conventions. With ABP's high-level framework and ecosystem, you can implement the Don't Repeat Yourself (DRY) principle and focus on your business code. Written by the creator of ABP Framework, this book will help you to gain a complete understanding of the framework and modern web application development techniques. With step-by-step explanations of essential concepts and practical examples, you'll understand the requirements of a modern web solution and how ABP Framework makes it enjoyable to develop your own solutions. You'll discover the common requirements of enterprise web application development and explore the infrastructure provided by ABP. Throughout the book, you'll get to grips with software development best practices for building maintainable and modular web solutions. By the end of this book, you'll be able to create a complete web solution that is easy to develop, maintain, and test. What you will learnSet up the development environment and get started with ABP FrameworkWork with Entity Framework Core and MongoDB to develop your data access layerUnderstand cross-cutting concerns and how ABP automates repetitive tasksGet to grips with implementing domain-driven design with ABP FrameworkBuild UI pages and components with ASP.NET Core MVC (Razor Pages) and BlazorWork with multi-tenancy to create modular web applicationsUnderstand modularity and create reusable application modulesWrite unit, integration, and UI tests using ABP FrameworkWho this book is for This book is for web developers who want to learn software architectures and best practices for building maintainable web-based solutions using Microsoft technologies and ABP Framework. Basic knowledge of C# and ASP.NET Core is necessary to get started with this book.

### **Building Xamarin.Forms Mobile Apps Using XAML** Microsoft Press

In this book, world-renowned ASP.NET expert and member of the Microsoft ASP.NET team Stephen Walther shows experienced developers how to use Microsoft's new ASP.NET MVC Framework to build web applications that are more powerful, flexible, testable, manageable, scalable, and extensible. Writing for professional programmers, Walther explains the crucial concepts that make the Model-View-Controller (MVC) development paradigm work so well and

shows exactly how to apply them with the ASP.NET MVC Framework. From controllers and actions to views and models, Walther demonstrates how to apply each ASP.NET MVC Framework feature in real-world projects. In Part II, you'll walk step-by-step through building a full-fledged ASP.NET MVC blog application that implements capabilities ranging from data access to validation. Through this case study, you'll learn how to build ASP.NET MVC applications using test-driven development processes that enable rapid feedback, greater productivity, and better quality. Throughout, Walther presents extensive code examples, reflecting his unsurpassed experience as an ASP.NET instructor, a leading commercial developer, and now as a member of Microsoft's ASP.NET development team.

Understand how to: Build enterprise-scale web applications far more rapidly and effectively Develop web applications that are easier to maintain and extend over time Gain unprecedented control over the appearance of your website or application Expose intuitive URLs that are friendlier to search engines and users alike Create ASP.NET MVC models that contain all your application's business, validation, and data access logic Make the most of HTML helpers, model binders, action filters, routing, and authentication Efficiently deploy your ASP.NET MVC applications Use the lightweight JQuery JavaScript library to easily find and manipulate HTML elements Create ASP.NET MVC applications using unit test and mock object framework

[Murach's ASP.NET Core MVC \(2nd Edition\)](#)

Apress

A software architect's digest of core practices, pragmatically applied Designing effective architecture is your best strategy for managing project complexity—and improving your results. But the principles and practices of software architecting—what the authors call the “science of hard decisions”—have been evolving for cloud, mobile, and other shifts. Now fully revised and updated, this book shares the knowledge and real-world perspectives that enable you to design for success—and deliver more successful solutions. In this fully updated Second Edition, you will: Learn how only a deep understanding of domain can lead to appropriate architecture Examine domain-driven design in both theory and implementation Shift your approach to code first, model later—including multilayer architecture Capture the benefits of prioritizing software maintainability See how readability, testability, and extensibility lead to code quality Take a user experience (UX) first approach, rather

than designing for data Review patterns for organizing business logic Use event sourcing and CQRS together to model complex business domains more effectively Delve inside the persistence layer, including patterns and implementation.

**Professional ASP.NET Design Patterns**  
Apress

"Domain-Driven Design" incorporates numerous examples in Java-case studies taken from actual projects that illustrate the application of domain-driven design to real-world software development.

*Hibernate Tips* Packt Publishing Ltd

The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. Patterns of Enterprise Application Architecture is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform.

This book is actually two books in one. The first section is a short tutorial on developing enterprise applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include · Dividing an enterprise application into layers · The major approaches to organizing business logic · An in-depth treatment of mapping

between objects and relational databases · Using Model-View-Controller to organize a Web presentation · Handling concurrency for data that spans multiple transactions · Designing distributed object interfaces

**Building Web, Cloud, and Mobile**

**Solutions with F#** Addison-Wesley

Shows how to perform set operations with the DbSet class, control change tracking, fix concurrency conflicts, and confirm changes made to data.

*Beginning ASP.NET 4.5 Databases* Packt Publishing Ltd

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through four complete sprints, this book takes you through every step needed to build brand new cross-platform web apps with ASP.NET Core, and make them available on the Internet. You won't just master Microsoft's revolutionary open source ASP.NET Core technology: you'll learn how to integrate the immense power of MVC, Docker, Azure Web Apps, Visual Studio and Visual Studio Code, C#, JavaScript, TypeScript, and Entity Framework. Working through the authors' carefully designed sprints, you'll start with a blank canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more. Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before.

*Pro ASP.NET Web API* Packt Publishing Ltd

The eight-volume set LNCS 13375 – 13382 constitutes the proceedings of the 22nd International Conference on Computational Science and Its Applications, ICCSA 2022, which was held in Malaga, Spain during July 4 – 7, 2022.

The first two volumes contain the proceedings from ICCSA 2022, which are the 57 full and 24 short papers presented in these books were carefully reviewed and selected from 279 submissions. The other six volumes present the workshop proceedings, containing 285 papers out of 815 submissions. These six volumes includes the proceedings of the following workshops: Advances in Artificial Intelligence Learning Technologies: Blended Learning, STEM, Computational Thinking and Coding (AAILT 2022); Workshop on Advancements in Applied Machine-learning and Data Analytics (AAMDA 2022); Advances in information Systems and Technologies for Emergency management, risk assessment and mitigation based on the Resilience (ASTER 2022); Advances in Web Based Learning

(AWBL 2022); Blockchain and Distributed Ledgers: Technologies and Applications (BDLTA 2022); Bio and Neuro inspired Computing and Applications (BIONCA 2022); Configurational Analysis For Cities (CA Cities 2022); Computational and Applied Mathematics (CAM 2022), Computational and Applied Statistics (CAS 2022); Computational Mathematics, Statistics and Information Management (CMSIM); Computational Optimization and Applications (COA 2022); Computational Astrochemistry (CompAstro 2022); Computational methods for porous geomaterials (CompPor 2022); Computational Approaches for Smart, Conscious Cities (CASCC 2022); Cities, Technologies and Planning (CTP 2022); Digital Sustainability and Circular Economy (DiSCE 2022); Econometrics and Multidimensional Evaluation in Urban Environment (EMEUE 2022); Ethical AI applications for a human-centered cyber society (EthicAI 2022); Future Computing System Technologies and Applications (FiSTA 2022); Geographical Computing and Remote Sensing for Archaeology (GCRSArcheo 2022); Geodesign in Decision Making: meta planning and collaborative design for sustainable and inclusive development (GDM 2022); Geomatics in Agriculture and Forestry: new advances and perspectives (GeoForAgr 2022); Geographical Analysis, Urban Modeling, Spatial Statistics (Geog-An-Mod 2022); Geomatics for Resource Monitoring and Management (GRMM 2022); International Workshop on Information and Knowledge in the Internet of Things (IKIT 2022); 13th International Symposium on Software Quality (ISSQ 2022); Land Use monitoring for Sustainability (LUMS 2022); Machine Learning for Space and Earth Observation Data (MALSEOD 2022); Building multi-dimensional models for assessing complex environmental systems (MES 2022); MOdels and indicators for assessing and measuring the urban settlement deVEloPMENT in the view of ZERO net land take by 2050 (MOVEto0 2022); Modelling Post-Covid cities (MPCC 2022); Ecosystem Services: nature's contribution to people in practice. Assessment frameworks, models, mapping, and implications (NC2P 2022); New Mobility Choices For Sustainable and Alternative Scenarios (NEMOB 2022); 2nd Workshop on Privacy in the Cloud/Edge/IoT World (PCEIoT 2022); Psycho-Social Analysis of Sustainable Mobility in The Pre- and Post-Pandemic Phase (PSYCHE 2022); Processes, methods and tools towards RESilient cities and cultural heritage prone to SOD and ROD disasters (RES 2022); Scientific Computing Infrastructure (SCI

2022); Socio-Economic and Environmental Models for Land Use Management (SEMLUM 2022); 14th International Symposium on Software Engineering Processes and Applications (SEPA 2022); Ports of the future - smartness and sustainability (SmartPorts 2022); Smart Tourism (SmartTourism 2022); Sustainability Performance Assessment: models, approaches and applications toward interdisciplinary and integrated solutions (SPA 2022); Specifics of smart cities development in Europe (SPEED 2022); Smart and Sustainable Island Communities (SSIC 2022); Theoretical and Computational Chemistry and its Applications (TCCMA 2022); Transport Infrastructures for Smart Cities (TISC 2022); 14th International Workshop on Tools and Techniques in Software Development Process (TTSDP 2022); International Workshop on Urban Form Studies (UForm 2022); Urban Regeneration: Innovative Tools and Evaluation Model (URITEM 2022); International Workshop on Urban Space and Mobilities (USAM 2022); Virtual and Augmented Reality and Applications (VRA 2022); Advanced and Computational Methods for Earth Science Applications (WACM4ES 2022); Advanced Mathematics and Computing Methods in Complex Computational Systems (WAMCM 2022). Implementing Domain-driven Design "O'Reilly Media, Inc." Language Integrated Query (LINQ), as well as the C# 3.0 and VB 9.0 language extensions to support it, is the most import 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() SQO 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 constructs 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 (CRUD) operations on EntitySets and manage optimistic concurrency conflicts. It starts with a detailed description of theObjectContext.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 theObjectContext", describes creating design-time data sources fromObjectContext.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. [Building Blazor WebAssembly Applications with gRPC](#) Apress  
Learn how to build web applications from three Microsoft MVPs. After building the data application layer using Entity Framework Core and a RESTful service using ASP.NET Core, you will then build the client side web application three ways: first, using ASP.NET Core, then using Angular 2, and, finally, using React. You will be able to compare and contrast these UI frameworks and select the best one for your needs. .NET Core is a complete rewrite of the popular .NET and its related frameworks. While many concepts are similar between .NET Core and the .NET 4.6 framework, there are revolutionary changes as well, including updates to Entity Framework Core and ASP.NET Core. The first section of this book covers the three main parts of building applications with C#: Entity Framework, ASP.NET Core Services, and ASP.NET Core Web Applications. There is also an explosion in popularity of JavaScript frameworks for client side development, and the authors cover two of the most popular UI frameworks. Start with TypeScript for developing clean JavaScript, along with a client side build tool such as Gulp, Grunt, and WebPack. Using the same data access layer and RESTful service from the .NET Core application, you can rebuild the UI using Angular 2. Then, repeat the process using React, for a true comparison of building client side applications using

ASP.NET Core, Angular 2, and React. What You'll Learn Understand the fundamentals of .NET Core and what that means to the traditional .NET developer Build a data access layer with Entity Framework Core, a RESTful service with ASP.NET Core MVC, and a website with ASP.NET Core MVC and Bootstrap Automate many build tasks with client side build utilities Who This Book Is For Intermediate to advanced .NET developers

**Building Web Applications with Visual Studio 2017** Apress

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 helps build 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

**Mastering ABP Framework** Microsoft Press

Leverage the full potential of Entity Framework with this collection of powerful and easy-to-follow recipes About This Book Learn how to use the new features of Entity Framework Core 1 Improve your queries by leveraging some of the advanced features Avoid common pitfalls Make the best of your .NET APIs by integrating with Entity Framework Who This Book Is For This book is for .NET developers who work with relational databases on a daily basis and understand the basics of Entity Framework, but now want to use it in a more efficient manner. You are expected to have some prior knowledge of Entity Framework. What You Will Learn Master the technique of using sequence key generators Validate groups of entities that are to be saved / updated Improve MVC applications that cover applications developed using ASP.NET MVC Core 1 Retrieve database information (table, column names, and so on) for entities Discover optimistic concurrency control and pessimistic concurrency control. Implement Multilatency on the data side of things. Enhance the

performance and/or scalability of Entity Framework Core Explore and overcome the pitfalls of Entity Framework Core In Detail Entity Framework is a highly recommended Object Relation Mapping tool used to build complex systems. In order to survive in this growing market, the knowledge of a framework that helps provide easy access to databases, that is, Entity Framework has become a necessity. This book will provide .NET developers with this knowledge and guide them through working efficiently with data using Entity Framework Core. You will start off by learning how to efficiently use Entity Framework in practical situations. You will gain a deep understanding of mapping properties and find out how to handle validation in Entity Framework. The book will then explain how to work with transactions and stored procedures along with improving Entity Framework using query libraries. Moving on, you will learn to improve complex query scenarios and implement transaction and concurrency control. You will then be taught to improve and develop Entity Framework in complex business scenarios. With the concluding chapter on performance and scalability, this book will get you ready to use Entity Framework proficiently. Style and approach Filled with rich code-based examples, this book takes a recipe-based approach that will teach .NET developers to improve their understanding of Entity Framework and help them effortlessly apply this knowledge in everyday situations.

**Patterns of Enterprise Application Architecture** "O'Reilly Media, Inc."

Entity Framework Core in Action, Second Edition teaches you to write flawless database interactions for .NET applications. Following relevant examples from author Jon Smith's extensive experience, you'll progress quickly from EF basics to advanced techniques. In addition to the latest EF features, this book addresses performance, security, refactoring, and unit testing. This updated edition also contains new material on NoSQL databases.

*Programming Entity Framework* Packt Publishing Ltd

Dependency Injection in .NET is a comprehensive guide that introduces DI and provides an in-depth look at applying DI practices to .NET apps. In it, you will also learn to integrate DI together with such technologies as Windows Communication Foundation, ASP.NET MVC, Windows Presentation Foundation and

other core .NET components. Building on your existing knowledge of C# and the .NET platform, this book will be most beneficial for readers who have already built at least a few software solutions of intermediate complexity. Most examples are in plain C# without use of any particular DI framework. Later, the book introduces several well-known DI frameworks, such as StructureMap, Windsor and Spring.NET. For each framework, it presents examples of its particular usage, as well as examines how the framework relates to the common patterns presented earlier in the book.

**Spring Data** Thoughts on Java

When you use Hibernate in your projects, you quickly recognize that you need to do more than just add @Entity annotations to your domain model classes. Real-world applications often require advanced mappings, complex queries, custom data types and caching. Hibernate can do all of that. You just have to know which annotations and APIs you need to use. Hibernate Tips - More than 70 solutions to common Hibernate problems shows you how to efficiently implement your persistence layer with Hibernate's basic and advanced features. Each Hibernate Tip consists of one or more code samples and an easy to follow step-by-step explanation. You can also download an example project with executable test cases for each Hibernate Tip. Throughout this book, you will get more than 70 ready-to-use solutions that show you how to: - Define standard mappings for basic attributes and entity associations. - Implement your own attribute mappings and support custom data types. - Use Hibernate's Java 8 support and other proprietary features. - Read data from the database with JPQL, Criteria API, and native SQL queries. - Call stored procedures and database functions. This book is for developers who are already working with Hibernate and who are looking for solutions for their current development tasks. It's not a book for beginners who are looking for extensive descriptions of Hibernate's general concepts. The tips are designed as self-contained recipes which provide a specific solution and can be accessed when needed. Most of them contain links to related tips which you can follow if you want to dive deeper into a topic or need a slightly different solution. There is no need to read the tips in a specific order. Feel free to read the book from cover to cover or to just pick the tips that help you in your current project.