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# Entity Framework 6 Recipes Second Edition Recipes Apress

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JavaScript Allongé  
Modern Java Recipes  
Learning MySQL and MariaDB  
Programming Entity Framework  
C# 6.0 Cookbook  
The Definitive Guide to SQLite  
Practical ASP.NET Web API  
Selenium WebDriver Recipes in C#  
Entity Framework Core Cookbook  
The UltraMetabolism Cookbook  
Programming Entity Framework  
Carbon Black  
Oracle Exadata Recipes  
Sitecore Cookbook for Developers  
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XML and JSON Recipes for SQL Server  
Hibernate Tips  
RESTful Web Services Cookbook  
Mastering Windows Presentation Foundation  
Pro ASP.NET Web API Security  
Visual C# 2005 Recipes  
ASP.NET Core 5 and React  
Introducing Data Science  
BIM Handbook  
ASP.NET Core 5 and Angular  
Mining the Social Web  
Odata Programming Cookbook for .NET Developers  
Entity Framework 4.1  
MongoDB in Action  
Essential LINQ  
ASP.NET Core Recipes  
Entity Framework 6 Recipes  
.NET Framework Essentials  
Entity Framework 4.0 Recipes  
NHibernate 4.x Cookbook

*Entity Framework 6  
Recipes Second Edition  
Recipes Apress*

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*JavaScript Allongé* John Wiley & Sons  
ASP.NET MVC 4 Recipes is a practical guide for developers creating modern web applications, cutting through the complexities of ASP.NET, jQuery, Knockout.js and HTML 5 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 framework and development tools, presenting typical challenges, along with code solutions and clear, concise explanations, to accelerate application development. Inside you will find recipes dealing with streamlined syntax, full control over HTML, a simple API for creating RESTful web services, writing support for test driven development, and more. Solve problems immediately by pasting in code from the recipes, or put multiple recipe solutions together to overcome challenging development obstacles. Dive head first into ASP.NET MVC web development with ASP.NET MVC 4 Recipes.

### **Modern Java Recipes** Apress

Entity Framework 6 Recipes provides an exhaustive collection of ready-to-use code solutions for Entity Framework, Microsoft's model-centric, data-access platform for the .NET Framework and ASP.NET development. With this book, you will learn the core concepts of Entity Framework through a broad range of clear and concise solutions to everyday

data access tasks. Armed with this experience, you will be ready to dive deep into Entity Framework, experiment with new approaches, and develop ways to solve even the most difficult data access challenges. If you are a developer who likes to learn by example, then this is the right book for you. Gives ready-to-use, real-world recipes to help you with everyday tasks Places strong focus on DbContext and the Code First approach Covers new features such as Asynch Query and Save, Codebased Configuration, Connection Resiliency, Dependency Resolution, and much more What you'll learn Implement basic data access design patterns using Entity Framework. Seamlessly model your solutions across both code and data. Provide data access to Windows 8 and Metro applications. Integrate with WCF Data Services Improve data access performance. Simplify and reduce your code through data binding. Who this book is for Entity Framework 6 Recipes is for anyone learning Microsoft's Entity Framework—Microsoft's primary data access platform in the .NET Framework. If you have ever struggled to learn a new technology, programming model, or way of doing something, you know how helpful simple and real-world examples can be. For the beginning developer, this book provides concrete examples for common data access tasks. For developers having experience with previous Microsoft data access platforms, this book provides a task-by-task mapping between previous approaches and the patterns used in Entity Framework. Table of Contents Getting Started with Entity Framework Entity Data Modeling Fundamentals Querying an Entity Data Model Using Entity Framework in ASP.NET Loading Entities and Navigation Properties

Beyond the Basics with Modeling and Inheritance Working with Object Services Plain Old CLR Objects Using the Entity Framework in N-Tier Applications Stored Procedures Functions Customizing Entity Framework Objects Improving Performance Concurrency

Learning MySQL and MariaDB Apress

JavaScript Allongé solves two important problems for the ambitious JavaScript programmer. First, JavaScript Allongé gives you the tools to deal with JavaScript bugs, hitches, edge cases, and other potential pitfalls. There are plenty of good directions for how to write JavaScript programs. If you follow them without alteration or deviation, you will be satisfied. Unfortunately, software is a complex thing, full of interactions and side-effects. Two perfectly reasonable pieces of advice when taken separately may conflict with each other when taken together. An approach may seem sound at the outset of a project, but need to be revised when new requirements are discovered. When you “leave the path” of the directions, you discover their limitations. In order to solve the problems that occur at the edges, in order to adapt and deal with changes, in order to refactor and rewrite as needed, you need to understand the underlying principles of the JavaScript programming language in detail. You need to understand why the directions work so that you can understand how to modify them to work properly at or beyond their original limitations. That’s where JavaScript Allongé comes in. JavaScript Allongé is a book about programming with functions, because JavaScript is a programming language built on flexible and powerful functions. JavaScript Allongé begins at the beginning, with values and expressions, and builds from there to discuss types, identity,

functions, closures, scopes, and many more subjects up to working with classes and instances. In each case, JavaScript Allongé takes care to explain exactly how things work so that when you encounter a problem, you’ll know exactly what is happening and how to fix it. Second, JavaScript Allongé provides recipes for using functions to write software that is simpler, cleaner, and less complicated than alternative approaches that are object-centric or code-centric. JavaScript idioms like function combinators and decorators leverage JavaScript’s power to make code easier to read, modify, debug and refactor, thus avoiding problems before they happen. JavaScript Allongé teaches you how to handle complex code, and it also teaches you how to simplify code without dumbing it down. As a result, JavaScript Allongé is a rich read releasing many of JavaScript’s subtleties, much like the Café Allongé beloved by coffee enthusiasts everywhere. License: CC BY-SA 3.0 Source is available from Github \*

<https://github.com/justinkelly/javascript-allonge>

Programming Entity Framework Simon and Schuster

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

**C# 6.0 Cookbook** Addison-Wesley Professional

Over 90 incredible and powerful recipes to help you efficiently use NHibernate in your application About This Book Master the full range of NHibernate features through detailed example recipes that you can quickly apply to your own applications Reduce hours of application

development time and get a better application architecture and improved performance. Create, maintain, and update your database structure automatically with the help of NHibernate. Who This Book Is For This book is written for .NET developers who want to use NHibernate and those who want to deepen their knowledge of the platform. Examples are written in C# and XML. Some basic knowledge of SQL is assumed. If you build .NET applications that use relational databases, this book is for you. What You Will Learn Create a persistent object model to move data in and out of your database. Build the database from your model automatically. Configure NHibernate for use with WebForms, MVC, WPF, and WinForms applications. Create database queries using a variety of methods. Improve the performance of your applications using a variety of techniques. Build an infrastructure for fast, easy, test-driven development of your data access layer. Implement entity validation, auditing, full-text search, horizontal partitioning (sharding), and spatial queries using NHibernate. Contrib projects. In Detail NHibernate is a mature, flexible, scalable, and feature-complete open source project for data access. Although it sounds like an easy task to build and maintain database applications, it can be challenging to get beyond the basics and develop applications that meet your needs perfectly. NHibernate allows you to use plain SQL and stored procedures less and keep focus on your application logic instead. Learning the best practices for a NHibernate-based application will help you avoid problems and ensure that your project is a success. The book will take you from the absolute basics of NHibernate through to its most

advanced features, showing you how to take full advantage of each concept to quickly create amazing database applications. You will learn several techniques for each of the four core NHibernate tasks—configuration, mapping, session and transaction management, and querying—and which techniques fit best with various types of applications. In short, you will be able to build an application using NHibernate by the end of the book. You will also learn how to best implement enterprise application architecture patterns using NHibernate, leading to clean, easy-to-understand code and increased productivity. In addition to new features, you will learn creative ways to extend the NHibernate core, as well as gaining techniques to work with the NHibernate search, shards, spatial, envers, and validation projects. Style and approach This book contains recipes with examples organized in functional areas, each containing step-by-step instructions on everything necessary to execute a particular task. The book is designed so you can read it from start to end or just open up any chapter and start following the recipes.

**The Definitive Guide to SQLite** Packt Publishing Ltd

The introduction of functional programming concepts in Java SE 8 was a drastic change for this venerable object-oriented language. Lambda expressions, method references, and streams fundamentally changed the idioms of the language, and many developers have been trying to catch up ever since. This cookbook will help. With more than 70 detailed recipes, author Ken Kousen shows you how to use the newest features of Java to solve a wide range of problems. For developers comfortable with previous Java versions,

this guide covers nearly all of Java SE 8, and includes a chapter focused on changes coming in Java 9. Need to understand how functional idioms will change the way you write code? This cookbook—chock full of use cases—is for you. Recipes cover: The basics of lambda expressions and method references Interfaces in the `java.util.function` package Stream operations for transforming and filtering data Comparators and Collectors for sorting and converting streaming data Combining lambdas, method references, and streams Creating instances and extract values from Java's Optional type New I/O capabilities that support functional streams The Date-Time API that replaces the legacy Date and Calendar classes Mechanisms for experimenting with concurrency and parallelism

Practical ASP.NET Web API Apress Summary MongoDB in Action, Second Edition is a completely revised and updated version. It introduces MongoDB 3.0 and the document-oriented database model. This perfectly paced book gives you both the big picture you'll need as a developer and enough low-level detail to satisfy system engineers. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology This document-oriented database was built for high availability, supports rich, dynamic schemas, and lets you easily distribute data across multiple servers. MongoDB 3.0 is flexible, scalable, and very fast, even with big data loads. About the Book MongoDB in Action, Second Edition is a completely revised and updated version. It introduces MongoDB 3.0 and the document-oriented database model. This perfectly paced book gives you both the

big picture you'll need as a developer and enough low-level detail to satisfy system engineers. Lots of examples will help you develop confidence in the crucial area of data modeling. You'll also love the deep explanations of each feature, including replication, auto-sharding, and deployment. What's Inside Indexes, queries, and standard DB operations Aggregation and text searching Map-reduce for custom aggregations and reporting Deploying for scale and high availability Updated for Mongo 3.0 About the Reader Written for developers. No previous MongoDB or NoSQL experience is assumed. About the Authors After working at MongoDB, Kyle Banker is now at a startup. Peter Bakkum is a developer with MongoDB expertise. Shaun Verch has worked on the core server team at MongoDB. A Genentech engineer, Doug Garrett is one of the winners of the MongoDB Innovation Award for Analytics. A software architect, Tim Hawkins has led search engineering at Yahoo Europe. Technical Contributor: Wouter Thielen. Technical Editor: Mihalis Tsoukalos. Table of Contents PART 1 GETTING STARTED A database for the modern web MongoDB through the JavaScript shell Writing programs using MongoDB PART 2 APPLICATION DEVELOPMENT IN MONGODB Document-oriented data Constructing queries Aggregation Updates, atomic operations, and deletes PART 3 MONGODB MASTERY Indexing and query optimization Text search WiredTiger and pluggable storage Replication Scaling your system with sharding Deployment and administration Selenium WebDriver Recipes in C# 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.

#### Entity Framework Core Cookbook Entity Framework 6 Recipes

"With an easy, step-by-step approach, this guide shows beginners how to install, use, and maintain the world's most popular open source database: MySQL. You'll learn through real-world examples and many practical tips, including information on how to improve database performance. Database systems such as MySQL help data handling for organizations large and small handle data, providing robust and efficient access in ways not offered by spreadsheets and other types of data stores. This book is also useful for web developers and programmers interested in adding MySQL to their skill sets. Topics include: Installation and basic administration ; Introduction to databases and SQL ; Functions, subqueries, and other query enhancements ; Improving database performance ; Accessing MySQL from popular languages"--

## The UltraMetabolism Cookbook

Apress

Learn how to secure your ASP.NET Core web app through robust and secure code

**Key Features** Discover the different types of security weaknesses in ASP.NET Core web applications and learn how to fix them Understand what code makes an ASP.NET Core web app unsafe Build your secure coding knowledge by following straightforward recipes

**Book Description** ASP.NET Core developers are often presented with security test results showing the vulnerabilities found in their web apps. While the report may provide some high-level fix suggestions, it does not specify the exact steps that you need to take to resolve or fix weaknesses discovered by these tests. In *ASP.NET Secure Coding Cookbook*, you'll start by learning the fundamental concepts of secure coding and then gradually progress to identifying common web app vulnerabilities in code. As you progress, you'll cover recipes for fixing security misconfigurations in ASP.NET Core web apps. The book further demonstrates how you can resolve different types of Cross-Site Scripting. A dedicated section also takes you through fixing miscellaneous vulnerabilities that are no longer in the OWASP Top 10 list. This book features a recipe-style format, with each recipe containing sample insecure code that presents the problem and corresponding solutions to eliminate the security bug. You'll be able to follow along with each step of the exercise and use the accompanying sample ASP.NET Core solution to practice writing secure code. By the end of this book, you'll be able to identify insecure code causing different security flaws in ASP.NET Core web apps and you'll have gained hands-on experience in removing vulnerabilities

and security defects from your code. What you will learn

**Understand** techniques for squashing an ASP.NET Core web app security bug

**Discover** different types of injection attacks and understand how you can prevent this vulnerability from being exploited

**Fix** security issues in code relating to broken authentication and authorization

**Eliminate** the risks of sensitive data exposure by getting up to speed with numerous protection techniques

**Prevent** security misconfiguration by enabling ASP.NET Core web application security features

**Explore** other ASP.NET web application vulnerabilities and secure coding best practices

**Who this book is for** This ASP.NET Core book is for intermediate-level ASP.NET Core web developers and software engineers who use the framework to develop web applications and are looking to focus on their security using coding best practices. The book is also for application security engineers, analysts, and specialists who want to know more about securing ASP.NET Core using code and understand how to resolve issues identified by the security tests they perform daily.

Programming Entity Framework "O'Reilly Media, Inc."

ASP.NET Web API is a key part of ASP.NET MVC 4 and the platform of choice for building RESTful services that can be accessed by a wide range of devices. Everything from JavaScript libraries to RIA plugins, RFID readers to smart phones can consume your services using platform-agnostic HTTP. With such wide accessibility, securing your code effectively needs to be a top priority. You will quickly find that the WCF security protocols you're familiar with from .NET are less suitable than

they once were in this new environment, proving themselves cumbersome and limited in terms of the standards they can work with. Fortunately, ASP.NET Web API provides a simple, robust security solution of its own that fits neatly within the ASP.NET MVC programming model and secures your code without the need for SOAP, meaning that there is no limit to the range of devices that it can work with – if it can understand HTTP, then it can be secured by Web API. These SOAP-less security techniques are the focus of this book.

*Carbon Black Thoughts on Java*

\* One of the first books to really offer C# programmers a set of cut-and-paste Visual C# 2005 solutions, in the Apress Recipes series format. Every recipe is specifically chosen and written to help the emerging Visual C# 2005 professional do their job from day one. \* The Apress Recipes series balances code and textual explanations perfectly to explain the new nuances of Visual C# 2005 as well as present the code recipes themselves. \* The code in this book comes as a complete stand-alone Visual Studio 2005 Solution, complete with unit tests for all recipes. This means the solutions are really ready to run as soon as the reader opens the book. \* Code is authoritative and follows Microsoft's best-practice guidelines for .NET 2.0.

Apress

Quickly find solutions to dozens of common problems encountered while using XML and JSON features that are built into SQL Server. 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! This book shows how to take advantage of

XML and JSON to share data and automate tasks. JSON is commonly used to move data back and forth between the database and front-end applications, often running in a browser. This book shows all you need to know about transforming query results into JSON format, and back again. Also covered are the processes and techniques for moving data into and out of XML format for business intelligence and other purposes, such as when transferring data from a reporting system into a data warehouse, or between different database brands such as between SQL Server and Oracle. Microsoft intensively implements XML in SQL Server, and in many related products. Execution plans are generated in XML format, and this book shows you how to parse those plans and automate the detection of performance problems. The relatively new Extended Events feature writes tracing data into XML files, and the recipes in this book help in parsing those files. XML is also used in SQL Server's BI tool set, including in SSIS, SSR, and SSAS. XML is used in many configuration files, and is even behind the construction of DDL triggers. In reading this book you'll dive deeply into the features that allow you to build and parse XML, and also JSON, which is a specific format of XML used to transmit objects in a web-friendly format between a database and its front-end applications. What You Will Learn Build XML and JSON objects in support of automation and data transfer Import and parse XML and JSON from operating system files Build appropriate indexes on XML objects to improve query performance Move data from query result sets into JSON format, and back again Automate the detection of database performance problems by querying and parsing the database's



own execution plans Replace external and manual JSON processes with SQL Server's internal, JSON functionality Who This Book Is For Database administrators, .NET developers, business intelligence developers, and other professionals who want a deep and detailed skill set around working with XML and JSON in a SQL Server database environment. Web developers will particularly find the book useful for its coverage of transforming database result sets into JSON text that can be transmitted to front-end web applications.

**Oracle Exadata Recipes** Packt Publishing Ltd

From the ten-time New York Times bestselling author of *Ultrametabolism*, *The Blood Sugar Solution*, and *Eat Fat, Get Thin* comes *The UltraMetabolism Cookbook*. The perfect companion to Dr. Hyman's New York Times bestseller, *Ultrametabolism*, *The UltraMetabolism Cookbook* has 200 convenient, easy-to-prepare, and, delicious recipes geared to each phase of the *Ultrametabolism* plan and designed to kick your metabolism into overdrive, change the way you eat, and establish a lifestyle shift to help you feel better and keep the weight off. The first part of the book takes the reader through the three-week detoxification of Phase I and offers a wide variety of delicious and easily prepared dishes like Roasted Shrimp, Turkey and Red Bean Chili, and Ratatouille. Phase II rebalances your metabolism in four weeks and offers the way to a healthy metabolism for life with recipes for satisfying, flavor-packed appetizers like Curried Deviled Eggs with Cashews, as well as many more new salads, meats, fish, shellfish, soups, poultry, grains, vegetables, breakfast foods, snacks and, of course, lots of plant-based options and bean

dishes for vegetarians. Based off cutting-edge nutritional science, these great recipes will help you integrate the *UltraMetabolism* way of eating into your lifestyle, from quick weeknight suppers to entertaining and holiday meals.

**Sitecore Cookbook for Developers** Packt Publishing Ltd

A fast track example- driven guide with clear instructions and details for OData programming with .NET Framework.

**ASP.NET MVC 4 Recipes** Apress

Determine your object relational mapper (ORM) of choice for enterprise applications using .NET Framework, and especially .NET Framework Core 3.1 and higher. Real-world examples and considerations are presented in this book to help you create robust and efficient database solutions. Throughout the text, actual problems, questions, and common pitfalls are provided to help you recognize optimal solutions for maximum success in the different application scenarios you might encounter. *Practical Entity Framework* begins with a simple overview of the two most common approaches to working with databases—database first and code first—and then focuses on working in a code first manner. Taking the code first approach allows the entire database to be built and maintained in code so there is never a situation in which you cannot restore the database schema.

Additionally, the code first approach creates an entirely transparent record of changes to the database that is easily tracked in source control. Emphasis throughout the book is on leaving you well positioned to architect and lead data development efforts for your organization. **What You Will Learn** Build robust and maintainable databases using a code first approach Create and execute stored procedures, triggers, and

functions Analyze and optimize performance of database queries Ensure data integrity through keys, constraints, and relationships Who This Book Is For .NET developers who work with enterprise-level applications and need to interact with data structures and data within the back end data store, developers who want to take a code first approach to building database applications to prevent conflicts and optimize efficiency, and those who are moving into full-stack roles, or into senior and architectural roles, and will be responsible for database design and implementation

**Practical Entity Framework** Packt Publishing Ltd

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.

**Multiple View Geometry in**

**Computer Vision** Packt Publishing Ltd

**Entity Framework 4.0 Recipes** provides an exhaustive collection of ready-to-use code solutions for Entity Framework, Microsoft's vision for the future of data access. Entity Framework is a model-centric data access platform with an ocean of new concepts and patterns for developers to learn. With this book, you will learn the core concepts of Entity Framework through a broad range of clear and concise solutions to everyday data access tasks. Armed with this experience, you will be ready to dive deep into Entity Framework, experiment with new approaches, and develop ways to solve even the most difficult data access challenges. If you are a developer who likes to learn by example, then this is the right book for you. Gives ready-to-use, real-world recipes to help you with everyday tasks Provides guideposts for learning core concepts Maps out key landmarks for experimenting with your own solutions

Code like a Pro in C# "O'Reilly Media, Inc."

Annotation Code first is an additional means of building a model to be used with the Entity Framework and is creating a lot of excitement in the .NET development community. The reader will begin with an overview of what code first is, why it was created, how it fits into the Entity Framework and when to use it over the alternatives.

ASP.NET Core 5 Secure Coding Cookbook "O'Reilly Media, Inc."

Build on your existing programming skills and upskill to professional-level C# programming. Summary In Code Like A Pro in C# you will learn: Unit testing and test-driven development Refactor a legacy .NET codebase Principles of clean code Essential backend architecture skills Query and manipulate databases with LINQ and Entity Framework Core Critical business applications worldwide are written in the versatile C# language and the powerful .NET platform, running on desktops, cloud systems, and Windows or Linux servers. Code Like a Pro in C# makes it easy to turn your existing abilities in C# or another OO language (such as Java) into practical C# mastery. There's no "Hello World" or Computer Science 101 basics—you'll learn by refactoring an out-of-date legacy codebase, using new techniques, tools, and best practices to bring it up to modern C# standards. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology You know the basics, now get ready for the next step! Pro-quality C# code is efficient, clean, and fast. Whether you're building user-facing business applications or writing data-intensive backend services, the experience-based, practical techniques in this book will take

your C# skills to a new level. About the book Code Like a Pro in C# teaches you to how write clean C# code that's suitable for enterprise applications. In this book, you'll refactor a legacy codebase by applying modern C# techniques. You'll explore tools like Entity Framework Core, design techniques like dependency injection, and key practices like testing and clean coding. It's a perfect path to upgrade your existing C# skills or shift from another OO language into C# and the .NET ecosystem. What's inside Unit testing and test-driven development Refactor a legacy .NET codebase Principles of clean code Query and manipulate databases with LINQ and Entity Framework Core About the reader For developers experienced with object-oriented programming. No C# experience required. About the author Jort Rodenburg is a software engineer who has taught numerous courses on getting up to speed with C# and .NET. Table of Contents PART 1 USING C# AND .NET 1 Introducing C# and .NET 2 .NET and how it compiles PART 2 THE EXISTING CODEBASE 3 How bad is this code? 4 Manage your unmanaged resources! PART 3 THE DATABASE ACCESS LAYER 5 Setting up a project and database with Entity Framework Core PART 4 THE REPOSITORY LAYER 6 Test-driven development and dependency injection 7 Comparing objects 8 Stubbing, generics, and coupling 9 Extension methods, streams, and abstract classes PART 5 THE SERVICE LAYER 10 Reflection and mocks 11 Runtime type checking revisited and error handling 12 Using IAsyncEnumerable and yield return PART 6 THE CONTROLLER LAYER 13 Middleware, HTTP routing, and HTTP responses 14 JSON

serialization/deserialization and custom  
model binding