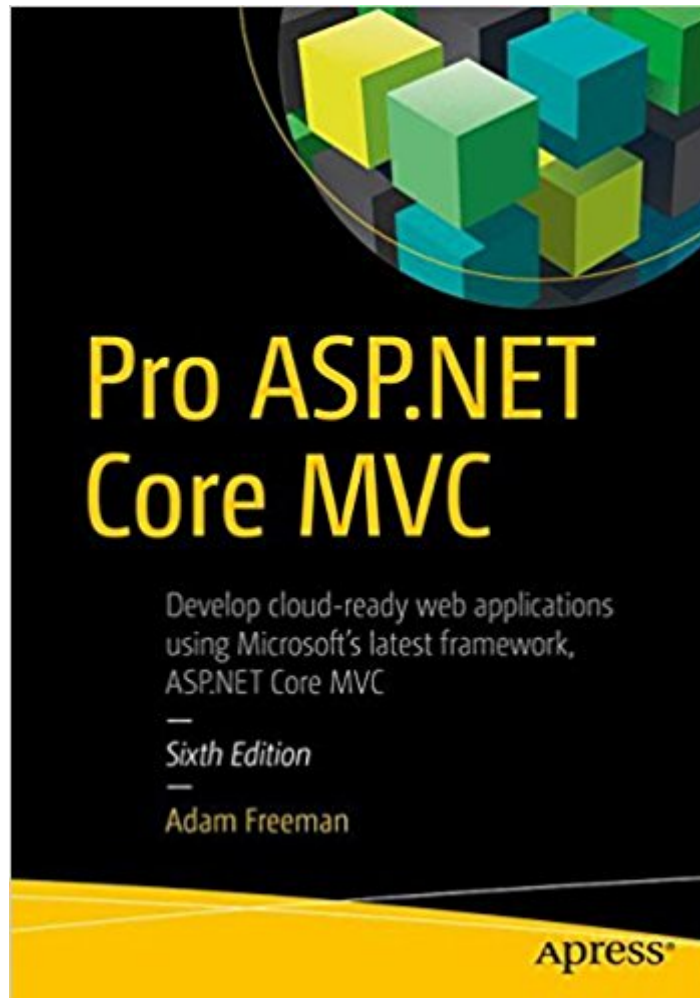




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Pro ASP.NET Core MVC



Synopsis

Visual Studio 2017 updates for this book are now available. Follow the [Download Source Code](#) link for this book on the Apress website. Now in its 6th edition, the best selling book on MVC is now updated for ASP.NET Core MVC. It contains detailed explanations of the new Core MVC functionality which enables developers to produce leaner, cloud optimized and mobile-ready applications for the .NET platform. This book puts ASP.NET Core MVC into context and dives deep into the tools and techniques required to build modern, cloud optimized extensible web applications. All the new MVC features are described in detail and the author explains how best to apply them to both new and existing projects. The ASP.NET Core MVC Framework is the latest evolution of Microsoft's ASP.NET web platform, built on a completely new foundation. It represents a fundamental change to how Microsoft constructs and deploys web frameworks and is free of the legacy of earlier technologies such as Web Forms. ASP.NET Core MVC provides a "host agnostic" framework and a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility. Best-selling author Adam Freeman has thoroughly revised this market-leading book and explains how to get the most from ASP.NET Core MVC. He starts with the nuts-and-bolts and shows you everything through to advanced features, going in-depth to give you the knowledge you need. This book follows the same format and style as the popular previous editions but brings everything up to date for the new ASP.NET Core MVC release. It presents a fully worked case study of a functioning ASP.NET MVC application that readers can use as a template for their own projects.

What You Will Learn:

- Gain a solid architectural understanding of ASP.NET Core MVC
- Explore the entire ASP.NET MVC Framework as a cohesive whole
- See how MVC and test-driven development work in action
- Learn what's new in ASP.NET Core MVC and how best to apply these new features to your own work
- See how to create RESTful web services and Single Page Applications
- Build on your existing knowledge of previous MVC releases to get up and running with the new programming model quickly and effectively

Who This Book Is For: This book is for web developers with a basic knowledge of ASP.NET and C# who want to incorporate the latest improvements and functionality in the new ASP.NET Core MVC Framework.

Book Information

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Customer Reviews

Adam Freeman is an experienced IT professional who has held senior positions in a range of companies, most recently serving as chief technology officer and chief operating officer of a global bank. Now retired, he spends his time writing and long-distance running.

Overall the book is a great reference on MVC and ASP.NET Core, starting with some high-level explanations, walking through the process of building a demo application over several chapters, and then going into a deep dive of all the various pieces. I learned a lot about ASP and the book is easy to follow. However, the book has one gaping flaw around how it structures database access. Adam uses a strategy of defining an interface for data access and then implementing it with Entity Framework, which is all fine. However, he makes the terrible decision to expose the Entity Framework DbSet using IEnumerable properties in his data access interface, and he does all filtering in the controller classes, which only access the database using this IEnumerable. While this will compile and function, there is a huge, huge difference between the following statements: `DBSet products = ...; var p1 = (products as IQueryable).Where(p => p.Category == "Sporting Goods").OrderBy(p => p.Id).Skip(20).Take(10); var p2 = (products as IEnumerable).Where(p => p.Category == "Sporting Goods").OrderBy(p => p.Id).Skip(20).Take(10);` Both return a product collection of 10 products in the sporting goods category. However, the first one (using IQueryable) is a LINQ to Entities query that will bake the filter, ordering, skip, and take criteria right into the T-SQL query that is sent down to the database. The query to the database will return 10 rows, which will be materialized into 10 Product objects. The second statement of these (using IEnumerable), while it eventually gives you the same 10 objects, is not using LINQ to Entities, it's a LINQ to Objects statement. It will select the entire Product table from the database, materialize every row to an object, and then sort, filter and discard all but 10 of those objects in memory. If you had 100,000

products in your SQL table, you would create and immediately discard 99,990 objects just to get the 10 you wanted, as well as reading every single row in your table for every operation. Adam is upfront that this isn't a book on Entity Framework - but I do have to dock him some points for repeatedly erring in how he implemented the database access.

Adam Freeman is my all time favorite author in the asp.net arena. This is his latest book in the series and perhaps his best effort as well. In addition to updating all of the examples and framework coverage that has become a hallmark of this series, Adam also included some basic coverage of some of the c# features that can be confusing even for seasoned programmers that are either approaching c# for the first time or have not programmed in asp.net. I personally feel that Adam went out of his way to make his coverage easy to understand and follow. If someone is new to C# or ASP.NET Core and approaching this topic with a good background in programming but not necessarily in the subject matter, this is the best book that I could think to recommend.

I am still reading this book but am extremely impressed. The author writes with clarity and is methodically covering this huge topic in an easily digestible manner. Even the sequencing of topics is highly tailored towards incremental learning. For instance he often writes mini-tutorials in a chapter for a related topic (like the Razor engine) just to give you enough acquaintance with it to understand the topic currently in focus. And he will note to expect a much deeper dive later in the book. In this way, the reader is following a virtuous "spiral" of learning, circulating around the breadth of ASP.NET Core MVC but with each turn going to a deeper level of detail, bolstered with concise and relevant examples. This is exactly how I learn best. He also comments on best practices, like how to separate the tasks that your controller versus model versus view should contain; or where your unit tests should live. He's pragmatic though, and where appropriate notes there may be other/different ways that are valid too (like unit testing approaches). I am a long time ASP.NET Web Forms / C# developer and I am eager to start coding new projects with this approach and anticipate referring back to this book for months to come.

Fun, informative book. Although one oversight I will mention. The 'SessionCart.GetCart()' Factory method should return a 'SessionCart' object, not the base 'Cart' type.

I have read the earlier versions of this book and I think the author did a god job of updating it for .NET Core, especially considering the rapid changes and instability that has surrounded the

platform for the last year. There are some great chapters in here that cover important new topics, like the configuration changes, the new request pipeline, View Components, Tag Helpers, Identity, and the merger of MVC and Web API. Recommended for these chapters alone. The other chapters are still good, though not as much has changed since previous versions.

Adam freeman does very well with .NET Core. Needs an update for dependencies as .NET Core maturing fast.

Great book, great reference. This really breaks down a lot of the principles within core to make it easy to understand.

Great book with some excellent real life sample projects

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