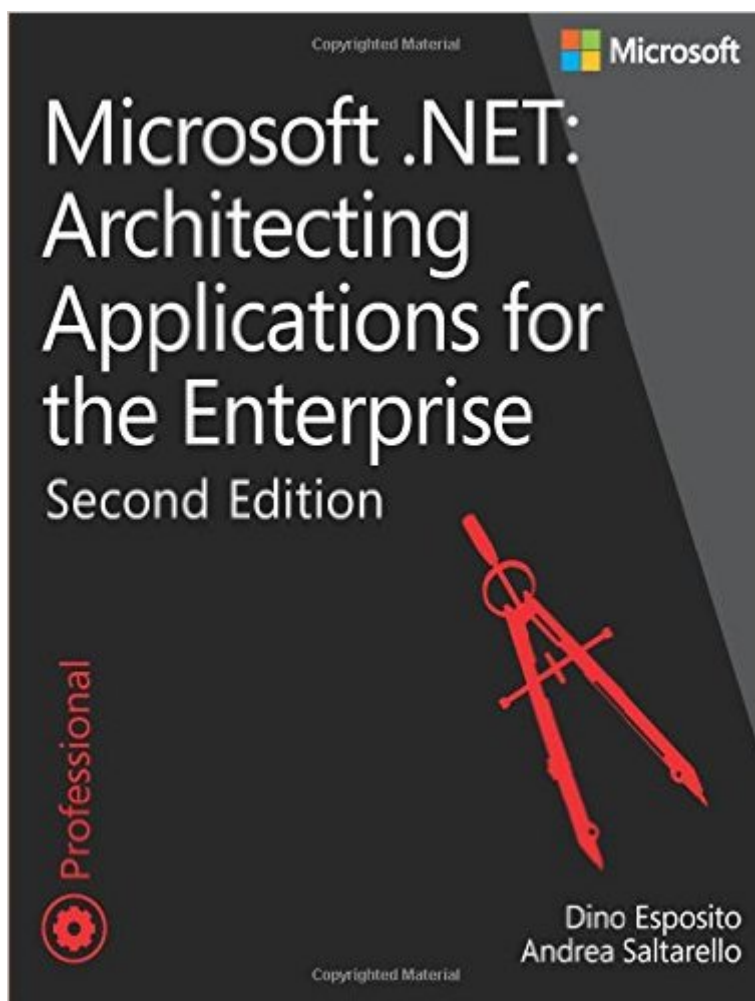


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# Microsoft .NET - Architecting Applications For The Enterprise (2nd Edition) (Developer Reference)



## Synopsis

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.

## Book Information

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## Customer Reviews

Below is my review of the first edition of this book. I have included it in its entirety because it is rather short.--Review Start-- This book does a great job of putting architecture into a view that .NET developers and architects can relate to. The book covers design principles and patterns, and then

relates them to each layer of a traditional layered system. It includes business, services, data access, and presentation layers. The authors include several different patterns for each layer and discuss the pros and cons of each. The book focuses on the technical aspects of .NET architecture. It does not cover the soft skills needed to be an architect, or cover the customer facing skills needed to communicate with the business stakeholders. You won't find much on process either, just an overview. These missing topics have not taken away from the book, they have made it a stronger book. There are plenty of resources on how to execute the soft skills and architecture process. This book concentrates on how to communicate with the development team through solid design and well known patterns and principles. This is a must read for all architects, no matter what your skill set is. A .NET developer looking to move into architecture should make this book their first stop on a long journey. This will definitely get you off to a very strong start. This book will not leave my side... until the 2nd edition...--Review End--Now that the second edition is here, I'm not quite sure the last sentence of that review is true anymore. There is still some information that is in the first edition of the book, which has been replaced in this version of the book, that I would still like to have handy.

It's hard to know exactly where to start with my review of this book. The book has a few very strong points to it, but there are also some significant weaknesses, to the extent that I would never recommend this book for anyone looking to become a fellow software architect. Let me start with the good things. It appears as if this book was written under demands of covering X material in Y pages, and the authors do an admirable job in attempting to adhere to these limits. The first part of the book, chapters 1 through 4, are especially well written, and are worth any developer's time reading through. These chapters cover topics that include what an architect actually does, some basics of important software design, a few advanced topics (such as SOLID programming), and writing high-quality software. In particular, the section on the aforementioned SOLID programming topic is about the best I've seen written. (It could still be improved -- I've yet to see a good explanation of Liskov's principle written -- but it's still the best I've seen.) However, the remaining chapters -- those which I could finish before giving up the endeavor as not worth the time commitment -- fail in several key ways. First, the amount of material that the rest of the book attempts to cover is too great for the amount of space given. Explanations are often overly terse, subtopics are mentioned only enough to throw red herrings in your way, and the examples are rushed, incomplete, and often misleading. The "misleading" claim comes from the second problem, which is probably the largest: the authors take their practice of Domain-Driven Design (DDD) and Command/Query Responsibility Segregation (CQRS) almost as gospel.

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