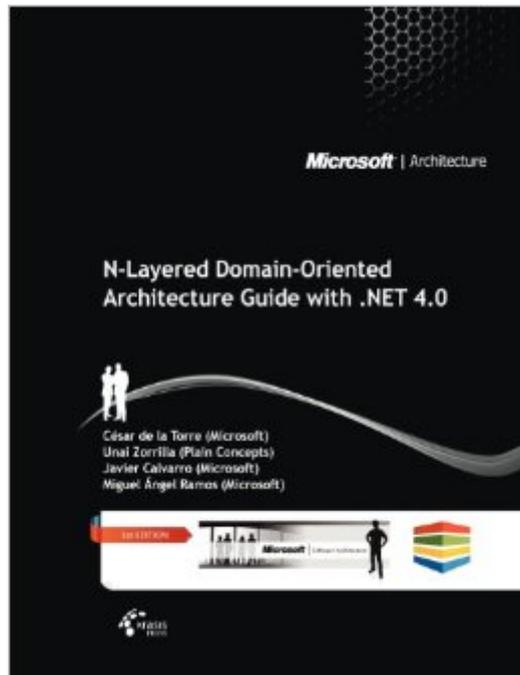


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# N-Layered Domain-Oriented Architecture Guide With .NET 4.0



## Synopsis

Foreword By Diego Vega (Program Manager, Microsoft Corp., Redmond, Seattle, U.S.) By the time we released the first version of Entity Framework we were constantly getting feedback from the DDD Community about things that were missing in EF. The main issues were blockers for practicing DDD with EF, such as lack of Persistence Ignorance support, difficulties of testability and high friction in some areas of the API. Members of the DDD Community and the EF team spent considerable time discussing and cross-educating each other these subjects and on the true potential of EF. This had a strong influence in the second version of the EF, called EF 4.0, and the improvements that later crystallized in EF 4.1, which included massive improvements intended to address many of those concerns. EF is still going to evolve to improve the experience and to make it easier to fall into what many like to call the "Pit of Success" of software development. But in EF 4 we already reached an important turning point: When customers pick EF for using it in their applications, they often come to us to ask for best practices, e.g. how to implement things with less and more maintainable code. Many of these customers now learn about concepts like Persistence Ignorance and Testability for the first time in our forums, blogs and conference talks! Therefore we are always looking for ways to disseminate this information. This book is a necessary and great attempt to distill the existing body of best practices for doing DDD with EF. I hope it will be very useful for those customers in need of such kind of guidance. Like EF, I hope this book will also evolve over time to accommodate new knowledge and scenarios. I am looking forward to seeing the impact of this initial work, as well as other things coming from the authors in the future. Target audience of the Guide This guide is targeted to the people involved in the entire lifecycle of software products or corporate applications with custom development. Specially, the following roles are applicable: • Software Architect • Lead Developer and Developer

## Book Information

Paperback: 480 pages

Publisher: Krasis Consulting S.L. (May 20, 2011)

Language: English

ISBN-10: 8493903612

ISBN-13: 978-8493903619

Product Dimensions: 7.4 x 1 x 9.7 inches

Shipping Weight: 2 pounds

Average Customer Review: 4.0 out of 5 stars • See all reviews (2 customer reviews)

Best Sellers Rank: #774,342 in Books (See Top 100 in Books) #238 in Books > Computers & Technology > Programming > Microsoft Programming > .NET #543 in Books > Computers & Technology > Programming > Microsoft Programming > C & C++ Windows Programming #1868 in Books > Computers & Technology > Programming > Web Programming

## Customer Reviews

Finding content on this subject for .NET is not easy from sources you can put some trust into. After reading many online technical forums and getting confused on who knows what they are talking about, coming across this book was a welcome presentation of assembled content on many topics I was looking for answers to. It does provide some good ideas to consider in setting up a Visual Studio project to build the various layers. I read the PDF version of this book which is free on the internet. I think the graphics were mistakenly created with 72 dpi which is the resolution for screen displays not paper print. Luckily, I have Mac Book Pro which allowed me to easily zoom in on any page with a graphic to get a closer look. As one reviewer stated, I believe the images are probably hard to see if printed so the best way to view the material for this publication is on a device that will let you zoom in on the images. You can also find more information such as updates related to this book at the following URL: [...] Another book which covers many of the topics this one does and is a good compliment to this material is Microsoft .NET Architecture Applications for the Enterprise, Second Edition by Dino Esposito and Andrea Saltarello (2014).

I have changed this review a few times. Updates are at the bottom of the page. I do not plan on changing it again. This book is packed full of great advice and it should be read by every .NET Architect and developer. The only issue is that the art work supplied was not good for printing. 90% of the diagrams are not readable and almost all the screenshots are faded to the point of almost being unreadable. I am ticked off that the \$50 print version is not top notch quality, but that is not the author's fault. The text and code examples are fine. The book is available for free to download. Just Google "Domain Oriented NLayered .NET 4.0 Architecture Guide" and go to the CodePlex site. Links are available there for the download. The book covers The Architecture Design Process, N-Layered Architecture, SOLID' Design Principles, DDDD (Distributed Domain Driven Design), Presentation, Application, Domain and Infrastructure Layers, Dependency Injection and Inversion of control, Model Subdivision and Work Context, Visual Studio Solution Design, Application Architecture with Layer Diagram of VS.2010, EDA (Event Driven Architecture) , Repositories (Repository Pattern), Active Record, Table Data Gateway, Data Mapper, Testing in the data

persistence infrastructure layer, Domain Entity options using Entity Framework, T4 Templates of POCO/Self-Tracking Entities generation, Unit Testing and Repository Integration Implementation, Value-Object Pattern, Aggregate Pattern, Specification Pattern, Domain Layer: Logical design and architecture, Application layer logical design and architecture, Service Oriented architectures and N-Layer architectures, REST vs. SOAP, ODATA: Open Data Protocol, Implementing a WCF service, MVC pattern (Model-View-Controller), MVVM Pattern (Model-View-ViewModel), UX technologies and Design Patterns, Data Validation in the User, Basics of ASP.NET MVC, AppFabric-Cache Implementation in DDD NLayerApp , Cross-Cutting Infrastructure LOCATION in the N-Layered Architecture , Benefits of Claims-Based Security, WIF and ADFS 2.0, Application architecture in the cloud, and Steps to migrate the sample NLayerApp Application to Windows Azure (Basic Scenario in the Cloud). That is a ton of information covered in one book, and the coverage is top notch. This is the best material to come out about implementing .NET Software Architecture in a long time. There are two versions of the sample application available. At the time of this review version one is a little cleaner, contains more functionality, and has much better diagrams included. Definitely download one of the versions and check out the code. One of my favorite parts of the book is that it is current. The book is the first I have seen use Entity Framework 4.1. Content wise I give it 5 stars, because of the bad art, printing wise I give it a 1. That is why it has a 4 star rating. All in all I think this material is high quality great advice that every .NET Architect and Developer should read. If you can live with looking the diagrams and screenshots up in the downloadable material, I definitely recommend getting a copy of this book. I have printed several of the more commonly use diagrams and keep them with the book. If you do not want to deal with the poor diagrams, my advice is to at least print it yourself and put it in a binder. Print it in color!!! It is worth it. What ever you do, give this material the attention it deserves. It is top notch .NET Architectural advice!!!! UPDATE (07-12-2011): The author has contacted the publisher who is in the process of getting the printing issues straightened out. UPDATE (07-16-2011): Apparently, according to the publisher, it was not a printing problem. The art work supplied was not good for printing. I guess that means it was a poor proofing process.

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