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MICROSOFT APPLICATION ARCHITECTURE GUIDE

2nd Edition



patterns & practices

Net Application Architecture Guide 2nd Edition

Pradeep Kumar Tapadiya



Net Application Architecture Guide 2nd Edition

NET Application Architecture Guide, 2009 [NET Application Architecture Guide](#), 2009 The guide is intended to serve as a practical and convenient overview of and reference to the general principles of architecture and design on the Microsoft platform and the NET Framework *Microsoft .NET - Architecting Applications for the Enterprise* Dino Esposito, Andrea Saltarello, 2014-08-28 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

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Patterns of Enterprise Application Architecture Martin

Fowler, 2012-03-09 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

Enterprise Application Architecture with .NET Core Ganesan Senthilvel, Ovais Mehboob Ahmed Khan, Habib Ahmed Qureshi, 2017-04-25

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[Building Microservices with .NET Core 2.0](#) Gaurav Arora, 2017-12-22 Architect your NET applications by breaking them into really small pieces microservices using this practical example based guide Key Features Start your microservices journey and get a broader perspective on microservices development using C# 7.0 with NET Core 2.0 Build, deploy and test microservices using ASP.NET Core API and Microsoft Azure Cloud Get the basics of reactive microservices Book Description The microservices architectural style promotes the development of complex applications as a suite of small services based on business capabilities This book will help you identify the appropriate service boundaries within your business We'll start by looking at what microservices are and their main characteristics Moving forward you will be introduced to real life application scenarios after assessing the current issues we will begin the journey of transforming this application by splitting it into a suite of microservices using C# 7.0 with NET Core 2.0 You will identify service boundaries

split the application into multiple microservices and define service contracts You will find out how to configure deploy and monitor microservices and configure scaling to allow the application to quickly adapt to increased demand in the future With an introduction to reactive microservices you ll strategically gain further value to keep your code base simple focusing on what is more important rather than on messy asynchronous calls What you will learn Get acquainted with Microsoft Azure Service Fabric Compare microservices with monolithic applications and SOA Learn Docker and Azure API management Define a service interface and implement APIs using ASP NET Core 2 0 Integrate services using a synchronous approach via RESTful APIs with ASP NET Core 2 0 Implement microservices security using Azure Active Directory OpenID Connect and OAuth 2 0 Understand the operation and scaling of microservices in NET Core 2 0 Understand the key features of reactive microservices and implement them using reactive extensions Who this book is for This book is for NET Core developers who want to learn and understand the microservices architecture and implement it in their NET Core applications It s ideal for developers who are completely new to microservices or just have a theoretical understanding of this architectural approach and want to gain a practical perspective in order to better manage application complexities N-Layered Domain-Oriented Architecture Guide with .Net 4.0 César de la Torre,Unai Zorrilla,Miguel Angel Ramos Javier Calvarro,2011-05 ForewordBy 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 GuideThis 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 *Mobile*

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Microservices in .NET, Second Edition Christian Gammelgaard, 2021-11-23 Microservices in NET Core Second Edition is a comprehensive guide to building microservice applications using the NET stack After a crystal clear introduction to the microservices architectural style it teaches you practical microservices development skills using MVC Core and ASP NET Core This second edition of the bestselling original has been revised with up to date tools for the NET ecosystem and more new coverage of scoping microservices and deploying to Kubernetes about the technology Microservice applications are built by connecting single capability autonomous components that communicate via APIs Microservice architectures boost productivity support Agile workflows and decrease the risks of catastrophic failures However they can be a big challenge to develop as they demand clearly defined interfaces and reliable infrastructure Luckily for developers Microsoft s own MVC Core and ASP NET Core frameworks help manage the tricky API and simplify the task of building microservice based applications about the book Microservices in NET Core Second Edition provides a

complete guide to building microservice applications You'll start by getting to grips with the unique architectural style of microservices explained in a way that's clear and accessible You'll move on quickly to practical development skills for building your own microservices using MVC Core and ASP.NET Core working on real world projects such as an ecommerce shopping cart You'll design and build individual services in C# and learn how to compose them into a simple but functional application back end In brand new coverage for the second edition you'll also learn about scoping microservices and how to handle the complexities of deploying to Kubernetes Along the way you'll address production and operations concerns like monitoring logging and security what's inside Build scalable microservices that are reliable in production Optimized microservices for continuous delivery Design event based collaboration between microservices Deploy microservices to Kubernetes Set up Kubernetes in Azure about the reader This book is written for C# developers No previous experience with microservices required about the author Christian Horsdal is an independent consultant with 20 years of experience building systems from large scale microservice systems to tiny embedded systems and lots of stuff in between He is a .NET expert author of the books Microservices in .NET Core and Instant Nancy Web Development a trainer and an occasional open source contributor

Understanding .NET David Chappell, 2002-01 The complete independent .NET briefing for every developer and technical manager this volume is clear concise jargon free and accessible without compromising accuracy or thoroughness It covers the .NET framework common language runtime Web services C# Visual Basic .NET .NET's new class libraries ASP.NET ADO.NET and much more

Programming Microsoft ASP.NET MVC Dino Esposito, 2011-10-15 Fully updated for ASP.NET MVC 3 Delve into the features principles and pillars of the ASP.NET MVC framework deftly guided by web development luminary Dino Esposito ASP.NET MVC forces developers to think in terms of distinct components Model View Controller that make it easier to manage application complexity while allowing strict control over the markup Plunge into the framework's internal mechanics and gain perspectives on how to use this programming model versus Web Forms and begin building your own MVC based applications quickly

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Application Architecture for .NET Microsoft Corporation, 2002 Get expert architectural and design level guidance for building distributed solutions with the Microsoft .NET Framework learning how to synthesize your knowledge of application development servers and infrastructure and business requirements This guide assumes you are familiar with .NET component development and the basic principles of a layered distributed

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Learning ASP.NET Core 3.0 -Second Edition Kenneth Yamikani Fukizi,Jason de Oliveira,Michel Bruchet,2019-12-27 A beginner s guide to building fully functioning web applications from scratch using the latest features of ASP NET Core 3 and C 8 Key Features Get to grips with the new features and APIs in ASP NET Core 3 EF Core 3 and Blazor Create web APIs that integrate your applications with other systems and services Learn to deploy your web applications in new environments such as the cloud and Docker containers Book Description ASP NET Core is an open source framework from Microsoft that makes it easy to build highly efficient and dynamic cross platform web applications Updated for the latest features of ASP NET Core 3 this second edition will equip you with the skills you need to build powerful web applications The book starts with an introduction to ASP NET Core and its features giving you a complete understanding of the framework You will also learn how to set up your development environment with Visual Studio 2019 and build a fully functioning application from scratch You ll then understand core concepts for building web applications such as Model View Controller MVC dependency injection and WebSockets As you advance you ll discover how to use Entity Framework Core 3 to automate all database related activities for your application You will then build and document secure web APIs using security best practices to protect your web applications from threats and vulnerabilities Finally you will learn how to use Azure DevOps as a CI CD tool to deploy and monitor your applications using Microsoft Azure Amazon Web Services AWS and Docker By the end of this book you ll have the skills you need to develop efficient and robust web applications in ASP NET Core 3 What you will learn Delve into basic and advanced ASP NET Core 3 concepts with the help of examples Build an MVC web application and use Entity Framework Core 3 to access data Add web APIs to your web applications using RPC REST and HATEOAS Create a fully automated continuous integration and continuous delivery CI CD pipeline using Azure DevOps Use Azure Amazon Web Services and Docker to deploy and monitor your applications Secure your web application from common attacks such as Cross Site Scripting and SQL injection Explore client side development using C Razor components Who this book is for This book is for developers who want to build modern web applications with ASP NET Core The book will also be helpful for anyone working

in infrastructure engineering and operations to monitor and diagnose problems during the runtime of ASP.NET Core 3.0 web applications. Although no prior understanding of ASP.NET or .NET Core is required, basic C# programming knowledge is assumed.

C# 8 and .NET Core 3 Projects Using Azure Paul Michaels, Dirk Strauss, Jas Rademeyer, 2019-12-31. Get up to speed with using C# 8 and .NET Core 3.0 features to build real-world .NET Core applications. Key Features: Learn the core concepts of web applications, serverless computing, and microservices; Create an ASP.NET Core MVC application using controllers, routing, middleware, and authentication; Build modern applications using cutting-edge services from Microsoft Azure. Book Description: .NET Core is a general-purpose, modular, cross-platform, and open-source implementation of .NET. The latest release of .NET Core 3 comes with improved performance and security features, along with support for desktop applications. .NET Core 3 is not only useful for new developers looking to start learning the framework but also for legacy developers interested in migrating their apps. Updated with the latest features and enhancements, this updated second edition is a step-by-step, project-based guide. The book starts with a brief introduction to the key features of C# 8 and .NET Core 3. You'll learn to work with relational data using Entity Framework Core 3 before understanding how to use ASP.NET Core. As you progress, you'll discover how you can use .NET Core to create cross-platform applications. Later, the book will show you how to upgrade your old WinForms apps to .NET Core 3. The concluding chapters will then help you use SignalR effectively to add real-time functionality to your applications, before demonstrating how to implement MongoDB in your apps. Finally, you'll delve into serverless computing and how to build microservices using Docker and Kubernetes. By the end of this book, you'll be proficient in developing applications using .NET Core 3. What you will learn: Understand how to incorporate the Entity Framework Core 3 to build ASP.NET Core MVC applications; Create a real-time chat application using Azure's SignalR service; Gain hands-on experience of working with Cosmos DB; Develop an Azure Function and interface it with an Azure Logic App; Explore user authentication with Identity Server and OAuth2; Understand how to use Azure Cognitive Services to add advanced functionalities with minimal code; Get to grips with running a .NET Core application with Kubernetes. Who this book is for: This book is for developers and programmers of all levels who want to build real-world projects and explore the new features of .NET Core 3. Developers working on legacy desktop software who are looking to migrate to .NET Core 3 will also find this book useful. Basic knowledge of .NET Core and C# is assumed.

NET Programming Pradeep Kumar Tapadiya, 2002. Tapadiya takes a straightforward, hands-on approach to explain everything readers need to know from development to deployment and maintenance for this platform, all from a developer's perspective. Using C# as the primary language and with plenty of code examples throughout, this book is an excellent way to learn.

Just Enough Software Architecture George Fairbanks, 2010-08-30. This is a practical guide for software developers and different than other software architecture books. Here's why: It teaches risk-driven architecting. There is no need for meticulous designs when risks are small, nor any excuse for sloppy designs when risks threaten your success. This book describes a way to do just enough architecture. It avoids the

one size fits all process tar pit with advice on how to tune your design effort based on the risks you face It democratizes architecture This book seeks to make architecture relevant to all software developers Developers need to understand how to use constraints as guiderails that ensure desired outcomes and how seemingly small changes can affect a system s properties It cultivates declarative knowledge There is a difference between being able to hit a ball and knowing why you are able to hit it what psychologists refer to as procedural knowledge versus declarative knowledge This book will make you more aware of what you have been doing and provide names for the concepts It emphasizes the engineering This book focuses on the technical parts of software development and what developers do to ensure the system works not job titles or processes It shows you how to build models and analyze architectures so that you can make principled design tradeoffs It describes the techniques software designers use to reason about medium to large sized problems and points out where you can learn specialized techniques in more detail It provides practical advice Software design decisions influence the architecture and vice versa The approach in this book embraces drill down pop up behavior by describing models that have various levels of abstraction from architecture to data structure design

[Programming Entity Framework](#) Julia Lerman,2010-08-09 Get a thorough introduction to ADO NET Entity Framework 4 Microsoft s core framework for modeling and interacting with data in NET applications The second edition of this acclaimed guide provides a hands on tour of the framework latest version in Visual Studio 2010 and NET Framework 4 Not only will you learn how to use EF4 in a variety of applications you ll also gain a deep understanding of its architecture and APIs Written by Julia Lerman the leading independent authority on the framework Programming Entity Framework covers it all from the Entity Data Model and Object Services to WCF Services MVC Apps and unit testing This book highlights important changes for experienced developers familiar with the earlier version Understand the core concepts you need to make the best use of the EF4 in your applications Learn to query your data using either LINQ to Entities or Entity SQL Create Windows Forms WPF ASP NET Web Forms and ASP NET MVC applications Build and consume WCF Services WCF Data Services and WCF RIA Services Use Object Services to work directly with your entity objects Create persistent ignorant entities repositories and write unit tests Delve into model customization relationship management change tracking data concurrency and more Get scores of reusable examples written in C with notes on Visual Basic syntax that you can implement right away

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Table of Contents Net Application Architecture Guide 2nd Edition

1. Understanding the eBook Net Application Architecture Guide 2nd Edition
 - The Rise of Digital Reading Net Application Architecture Guide 2nd Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Net Application Architecture Guide 2nd Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms

- Features to Look for in an Net Application Architecture Guide 2nd Edition
- User-Friendly Interface
- 4. Exploring eBook Recommendations from Net Application Architecture Guide 2nd Edition
 - Personalized Recommendations
 - Net Application Architecture Guide 2nd Edition User Reviews and Ratings
 - Net Application Architecture Guide 2nd Edition and Bestseller Lists
- 5. Accessing Net Application Architecture Guide 2nd Edition Free and Paid eBooks
 - Net Application Architecture Guide 2nd Edition Public Domain eBooks
 - Net Application Architecture Guide 2nd Edition eBook Subscription Services
 - Net Application Architecture Guide 2nd Edition Budget-Friendly Options
- 6. Navigating Net Application Architecture Guide 2nd Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Net Application Architecture Guide 2nd Edition Compatibility with Devices
 - Net Application Architecture Guide 2nd Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Net Application Architecture Guide 2nd Edition
 - Highlighting and Note-Taking Net Application Architecture Guide 2nd Edition
 - Interactive Elements Net Application Architecture Guide 2nd Edition
- 8. Staying Engaged with Net Application Architecture Guide 2nd Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Net Application Architecture Guide 2nd Edition
- 9. Balancing eBooks and Physical Books Net Application Architecture Guide 2nd Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Net Application Architecture Guide 2nd Edition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Net Application Architecture Guide 2nd Edition

- Setting Reading Goals Net Application Architecture Guide 2nd Edition
- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Net Application Architecture Guide 2nd Edition
 - Fact-Checking eBook Content of Net Application Architecture Guide 2nd Edition
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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