Application Architecture for .NET:

Designing Applications and Services



Microsoft Corporation

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 application design It examines architectural issues and solution design for a range of project stakeholders whether you build and design applications and services recommend appropriate technologies and products for applications and services make design decisions to meet functional and nonfunctional requirements or choose appropriate communications mechanisms for applications and services providing straightforward guidance recommendations and best practices gleaned from real world solution development All PATTERNS PRACTICES guides are reviewed and approved by Microsoft engineering teams consultants partners and customers delivering accurate real world information that s been technically validated and tested Microsoft Application Architecture for .NET ,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 Cloud Application Architecture Patterns Kyle Brown, Bobby Woolf, Joseph Yoder, 2025-04-15 Resource description page There are more applications running in the cloud than there are ones that run well there If you re considering taking advantage of cloud technology for your company's projects this practical guide is an ideal way to understand the best practices that will help you architect applications that work well in the cloud no matter which vendors products or languages you use Architects and lead developers will learn how cloud applications should be designed how they fit into a larger architectural picture and how to make them operate efficiently Authors Kyle Brown Bobby Woolf and Joseph Yoder take you through the process step by step Explore proven architectural practices for developing applications for the cloud Understand why some architectural choices are better suited than others for applications intended to run on the cloud Learn design and implementation techniques for developing cloud applications Select the most appropriate cloud adoption patterns for your organization See how all potential choices in application design relate to each other through the connections of the patterns Chart your own course in adopting the right strategies for developing application architectures for the cloud Expert Service-Oriented Architecture In C# Jeffrey Hasan, 2008-01-01 Popular author Jeffrey Hasan will draw you into the service oriented architecture SOA mindset in the context of the release of Indigo the new Web services protocol and infrastructure support for SOA Now is the time to consider SOA and to think about how to architect applications using XML messages and loosely coupled services With this book you can get a head start on building SOA applications using the NET Framework combined with the Web Services Enhancements WSE 2 0 toolkit Web services are hot and with the release of WSE 2 0 Microsoft developers now have a toolkit that makes it easy to implement industry standard specifications for building secure

reliable Web services This book provides deep insight into the release of the WSE toolkit blending theory with ample C code samples and directly teaching you how to implement SOA solutions that are based on specifications such as WS Security WS Policy and WS Addressing Most NET based Web services are simply containers for limited RPC style methods This book will show you how to shift your development paradigm to create Web services that process sophisticated XML messages within a secure service oriented loosely coupled architecture Jeff gives you the practical information you need today while at the same time preparing you for what you will need tomorrow Expert One-on-OneTM Visual Basic® 2005 Database Programming Roger Jennings, 2006-02-13 Are you hesitant to migrate to Visual Studio r 2005 Maybe you re ready to upgrade to Visual Basic 2005 but feel a bit overwhelmed by ADO NET 2 0 and the Visual Data Tools of this new release In this hands on guide I ll share with you the best practices the latest features and advanced data management techniques with Visual Basic 2005 and SQL Server or SQL Server Express 2005 Plus I ll incorporate simple to moderately complex project examples that feature real world database front end applications with Windows and Web forms First I ll begin with ADO NET 2 0 basics then I ll move on to designing and programming smart clients with typed DataSets as their data sources Gradually I ll walk you through using DataSource GridView and DetailsView Web controls Finally I ll demonstrate how to take advantage of the new T SQL extensions in process Web services and notifications What you will learn from this book How to build usable Windows r and Web forms from a sample database in less than five minutes without writing a line of code Effective writing of data validation code for bound text boxes and DataGridViews Ways to apply advanced ASP NET 2 0 data techniques The process of creating and deploying VB 2005 SQL CLR projects Who this book is for This book is for experienced VB programmers who are upgrading from VB6 or VS 2002 2003 to VB 2005 Basic familiarity with the VS 2005 or VB Express 2005 environment is helpful but not assumed No prior VB6 VBA or VBScript experience is necessary Wrox Expert One On One books present the wisdom accumulated by an experienced author who is recognized as an expert by the programming community These experts challenge professional developers to examine their current practices in pursuit of better results **Enterprise Application** Architecture with .NET Core Ganesan Senthilvel, Ovais Mehboob Ahmed Khan, Habib Ahmed Qureshi, 2017-04-25 Architect and design highly scalable robust clean and highly performant applications in NET Core About This Book Incorporate architectural soft skills such as DevOps and Agile methodologies to enhance program level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book Who This Book Is For This book is for experienced NET developers who are aspiring to become architects of enterprise grade applications as well as software architects who would like to leverage NET to create effective blueprints of applications What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM tools application insights and their usage to monitor performance testability and

optimization tools in an enterprise Explore various authentication models such as social media based authentication 2FA and OpenID Connect learn authorization techniques Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers Gain knowledge about the recent market trends and practices and how they can be achieved with NET Core and Microsoft tools and technologies In Detail If you want to design and develop enterprise applications using NET Core as the development framework and learn about industry wide best practices and guidelines then this book is for you The book starts with a brief introduction to enterprise architecture which will help you to understand what enterprise architecture is and what the key components are It will then teach you about the types of patterns and the principles of software development and explain the various aspects of distributed computing to keep your applications effective and scalable These chapters act as a catalyst to start the practical implementation and design and develop applications using different architectural approaches such as layered architecture service oriented architecture microservices and cloud specific solutions Gradually you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques such as social media based authentication and safe storage using app secrets By the end of the book you will get to know the concepts and usage of the emerging fields such as DevOps BigData architectural practices and Artificial Intelligence Style and approach Filled with examples and use cases this guide takes a no nonsense approach to show you the best tools and techniques required to become a successful software architect **Designing Scalable .NET Applications** Rickard Redler, Joachim Rossberg, 2008-01-01 The key issue for all enterprise developers regardless of platform is how to design for growth This is the first book that addresses how to build scalable NET applications Given authors Joachim Rossberg and Rickard Redler s extensive consulting experience this book is based on their combined real world experience with numerous large NET installations Software Architecture with C# 12 and .NET 8 Gabriel Baptista,Francesco Abbruzzese,2024-02-28 A book for the aspiring NET software architect design scalable and high performance enterprise solutions using the latest features of C 12 and NET 8 Purchase of the print or Kindle book includes a free PDF eBook Key Features Get introduced to software architecture fundamentals and begin applying them in NET Explore the main technologies used by software architects and choose the best ones for your needs Master new developments in NET with the help of a practical case study that looks at software architecture for a travel agency Book DescriptionSoftware Architecture with C 12 and NET 8 puts high level design theory to work in a NET context teaching you the key skills technologies and best practices required to become an effective NET software architect This fourth edition puts emphasis on a case study that will bring your skills to life You ll learn how to choose between different architectures and technologies at each level of the stack You ll take an even closer look at Blazor and explore OpenTelemetry for observability as well as a more practical dive into preparing NET microservices for Kubernetes integration Divided into three parts this book starts with the fundamentals of software architecture covering C

best practices software domains design patterns DevOps principles for CI CD and more The second part focuses on the technologies from choosing data storage in the cloud to implementing frontend microservices and working with Serverless You ll learn about the main communication technologies used in microservices such as REST API gRPC Azure Service Bus and RabbitMQ The final part takes you through a real world case study where you ll create software architecture for a travel agency By the end of this book you will be able to transform user requirements into technical needs and deliver highly scalable enterprise software architectures What you will learn Program and maintain Azure DevOps and explore GitHub Projects Manage software requirements to design functional and non functional needs Apply architectural approaches such as layered architecture and domain driven design Make effective choices between cloud based and data storage solutions Implement resilient frontend microservices worker microservices and distributed transactions Understand when to use test driven development TDD and alternative approaches Choose the best option for cloud development from IaaS to Serverless Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the NET stack Basic familiarity with C and NET is required to get the most out of this software architecture book **Professional ASP.NET Design Patterns** Scott Millett, 2010-09-16 Design patterns are time tested solutions to recurring problems letting the designer build programs on solutions that have already proved effective Provides developers with more than a dozen ASP NET examples showing standard design patterns and how using them helpsbuild a richer understanding of ASP NET architecture as well as better ASP NET applications Builds a solid understanding of ASP NET architecture that can be used over and over again in many projects Covers ASP NET code to implement many standard patterns including Model View Controller MVC ETL Master Snapshot Master Slave Snapshot Fa ade Singleton Factory Single Access Point Roles Limited View observer page controller common communication patterns and more Integration Patterns Microsoft Corporation, 2004 Contains a catalog of 18 integration patterns including implementations that use BizTalk Server 2004 Host Integration Server 2004 ASP NET Visual Studio NET Visio 2003 and the Net Framework Preface

Decoding **Application Architecture For Net Designing Applications And Services Patterns Practices**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "Application Architecture For Net Designing Applications And Services Patterns Practices," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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