

Microsoft

# MICROSOFT APPLICATION ARCHITECTURE GUIDE

2<sup>nd</sup> Edition

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patterns & practices

# Microsoft Application Architecture Guide Microsoft Patterns and Practices Team

**Len Fenster**



## **Microsoft Application Architecture Guide Microsoft Patterns Amp Practices Team:**

*Microsoft® Application Architecture Guide, 2nd Edition* Microsoft Team, 2009 The definitive guide from the Microsoft patterns practices team on designing applications for the Microsoft application platform **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 **The Definitive Guide to the Microsoft Enterprise Library** Keenan Newton, 2008-06-08 The Definitive Guide to the Microsoft Enterprise Library introduces one of the most exciting and popular NET oriented initiatives the Enterprise Library The EL offers eight application blocks and other reusable code that are used to solve a variety of common problem spaces These problems cover a number of topics including data access exception handling caching logging security cryptography validation policy injection and configuration Author Keenan Newton a senior consultant for Microsoft Consulting Services begins the book with an introduction to common challenges explaining the conditions that brought about the creation of the EL After an EL overview subsequent chapters offer detailed information about each of the eight blocks The book concludes by outlining the framework available for creating custom application blocks as well as other development spaces using application blocks You ll be able to build NET applications faster and more efficiently by taking advantage of readily available code developed and released by Microsoft s patterns and practices group You will be introduced to these technologies in conjunction with real world scenarios **Advanced Information Systems Engineering Workshops** Camille Salinesi, Oscar Pastor, 2011-06-17 This book constitutes the thoroughly refereed proceedings of ten international workshops held in London UK in conjunction with the 23rd International Conference on Advanced Information Systems Engineering CAiSE 2011 in June 2011 The 59 revised papers were carefully selected from 139 submissions The ten workshops included Business IT Alignment and Interoperability BUSITAL Conceptualization of Modelling Methods CMM Domain Specific Engineering DsE CAiSE Governance Risk and Compliance GRCIS Integration of IS Engineering Tools INISET System and Software Architectures IWSSA Ontology Driven Information Systems Engineering ODISE Ontology Models Conceptualization and Epistemology in Social Artificial and Natural Systems ONTOSE Semantic Search SSW and Information Systems Security Engineering WISSE **Designing Software Architectures** Humberto Cervantes, Rick Kazman, 2016-04-29 Designing Software Architectures will teach you how to design any software architecture in a systematic predictable repeatable and cost effective way This book introduces a practical methodology for architecture design that any professional software engineer can use provides structured methods supported by reusable chunks of design knowledge and includes rich case studies that demonstrate how to use the methods Using realistic examples you ll master the powerful new version of the proven Attribute Driven Design ADD 3.0 method and will learn how to use it to address key drivers including quality attributes such as modifiability usability and availability along with functional requirements and architectural concerns Drawing on their extensive experience Humberto Cervantes and

Rick Kazman guide you through crafting practical designs that support the full software life cycle from requirements to maintenance and evolution You ll learn how to successfully integrate design in your organizational context and how to design systems that will be built with agile methods Comprehensive coverage includes Understanding what architecture design involves and where it fits in the full software development life cycle Mastering core design concepts principles and processes Understanding how to perform the steps of the ADD method Scaling design and analysis up or down including design for pre sale processes or lightweight architecture reviews Recognizing and optimizing critical relationships between analysis and design Utilizing proven reusable design primitives and adapting them to specific problems and contexts Solving design problems in new domains such as cloud mobile or big data

**Effective Use of Microsoft Enterprise Library** Len Fenster,2006-06-09 Writing robust enterprise applications presents a special challenge for developers but Microsoft has addressed that challenge with the free downloadable Enterprise Library for the NET Framework Enterprise Library is a collection of application blocks and guidance documents that together provide functionality common to enterprise applications each application block includes full source code Lacking in the guidance provided by Microsoft is an overall roadmap to the process of using the application blocks Effective Use of Microsoft Enterprise Library is that roadmap Microsoft application development lead architect Len Fenster explains exactly how to build applications using Enterprise Library application blocks Fenster covers all seven application blocks as implemented for NET Framework 1 1 shows how to develop and use a new application block and explains how Enterprise Library is changing for NET Framework 2 0 Readers will learn How the Configuration Application Block is designed and can be used at runtime to easily read and write configuration data How the Configuration Application Block works at design time for all blocks How to use the Data Access Block to create a portable data layer How to use the Exception Handling Application Block to implement a policy driven application wide exception handling system How to use the Logging and Instrumentation Application Block to log and instrument messages independent of the message destination How to add authentication authorization role membership security cache and profile membership features to an application with the Security Application Block How to use the Cryptography Application Block to add functionality to encrypt and decrypt data and create and compare hashes How to build your own application block and providers that snap right into Enterprise Library Whether you plan to extend Enterprise Library for your organization or just use the existing application blocks to add functionality to your architecture in a consistent extensible integrated way this book will guide you through the complexities and help you find a clear path to success

**Effective Coding with VHDL** Ricardo Jasinski,2016-05-27 A guide to applying software design principles and coding practices to VHDL to improve the readability maintainability and quality of VHDL code This book addresses an often neglected aspect of the creation of VHDL designs A VHDL description is also source code and VHDL designers can use the best practices of software development to write high quality code and to organize it in a design This book presents this

unique set of skills teaching VHDL designers of all experience levels how to apply the best design principles and coding practices from the software world to the world of hardware The concepts introduced here will help readers write code that is easier to understand and more likely to be correct with improved readability maintainability and overall quality After a brief review of VHDL the book presents fundamental design principles for writing code discussing such topics as design quality architecture modularity abstraction and hierarchy Building on these concepts the book then introduces and provides recommendations for each basic element of VHDL code including statements design units types data objects and subprograms The book covers naming data objects and functions commenting the source code and visually presenting the code on the screen All recommendations are supported by detailed rationales Finally the book explores two uses of VHDL synthesis and testbenches It examines the key characteristics of code intended for synthesis distinguishing it from code meant for simulation and then demonstrates the design and implementation of testbenches with a series of examples that verify different kinds of models including combinational sequential and FSM code Examples from the book are also available on a companion website enabling the reader to experiment with the complete source code

Proceedings of Sixth International Congress on Information and Communication Technology Xin-She Yang, Simon Sherratt, Nilanjan Dey, Amit Joshi, 2021-09-16 This book gathers selected high quality research papers presented at the Sixth International Congress on Information and Communication Technology held at Brunel University London on February 25 26 2021 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of things IoT and e mining Written by respected experts and researchers working on ICT the book offers a valuable asset for young researchers involved in advanced studies The book is presented in four volumes

*Service-Dominant Business Design* Egon Lüftenegger, This dissertation presents tool supported process for designing Work by Following a Service Dominant Logic The tools supported by the design process are the following The Service Dominant Strategy Canvas The Service Dominant Business Model Radar the Business Service Composition Blueprint and the Business Services Catalogue

**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

**Reuse in Emerging Software Engineering Practices** Sihem Ben Sassi,Stéphane Ducasse,Hafedh Mili,2020-11-30 This book constitutes the proceedings of the 19th International Conference on Software and Systems Reuse ICSR 2020 held in Hammamet Tunesia in December 2020 Due to COVID 19 pandemic the Conference was held virtually The 16 full papers and 2 short papers included in this book were carefully reviewed and selected from 60 submissions The papers were organized in topical sections named modelling reuse in practice reengineering recommendation and empirical analysis **A Developer's**

**Guide to Cloud Apps Using Microsoft Azure** Hamida Rebai Trabelsi,Marc-Andre Laniel,2023-02-17 Build and deploy modern and secure applications on Microsoft Azure by implementing best practices patterns and new technologies with this easy to follow guide Purchase of the print or Kindle book includes a free PDF eBook Key FeaturesLearn various methods to migrate legacy applications to cloud using different Azure servicesImplement continuous integration and deployment as a best practice for DevOps and agile developmentGet started with building cloud based applications using containers and orchestrators in different scenariosBook Description Companies face several challenges during cloud adoption with developers and architects needing to migrate legacy applications and build cloud oriented applications using Azure based technologies in different environments A Developer s Guide to Cloud Apps Using Microsoft Azure helps you learn how to migrate old apps to Azure using the Cloud Adoption Framework and presents use cases as well as build market ready secure and reliable applications The book begins by introducing you to the benefits of moving legacy apps to the cloud and modernizing existing ones using a set of new technologies and approaches You ll then learn how to use technologies and patterns to build cloud oriented applications This app development book takes you on a journey through three major services in Azure namely Azure Container Registry Azure Container Instances and Azure Kubernetes Service which will help you build and deploy an application based on microservices Finally you ll be able to implement continuous integration and deployment in Azure to fully automate the software delivery process including the build and release processes By the end of this book you ll be able to perform application migration assessment and planning select the right Azure services and create and implement a new cloud oriented application using Azure containers and orchestrators What you will learnGet to grips with new patterns and technologies used for cloud native applicationsMigrate old applications and databases to Azure with easeWork with containers and orchestrators to automate app deploymentSelect the right Azure service for deployment as per the use casesSet up CI CD pipelines to deploy apps and services on Azure DevOpsLeverage Azure App Service to deploy your first applicationBuild a containerized app using Docker and Azure Container RegistryWho this book is for This book is for cloud developers software architects system administrators developers and computer science students looking to understand the new role of the software architect or developer in the cloud world Professionals looking to enhance their cloud and cloud native programming concepts will also find this book useful A sound background in C ASP NET Core and Visual Studio any

recent version and basic knowledge of cloud computing will be helpful

**Learn WPF MVVM - XAML, C# and the MVVM pattern** Arnaud Weil, 2017-01-31 You're a developer who knows nothing about WPF. Which is fine except that you need to start coding your next application using WPF and the MVVM pattern. Don't worry, I have you covered. I've been training hundreds of developers like you during 15 years and converted my experience into this book. I know from experience teaching what takes more time to learn in WPF and will spend time only where appropriate. Plus this book is packed with exercises which build up into a full project: you develop a small e-commerce sample application. You'll allow users to browse for products and you'll also create a back end where users will be able to list and edit products. Read this book and you can code your WPF application within a week.

**Professional Application Lifecycle Management with Visual Studio 2010** Mickey Gousset, Brian Keller, Ajoy Krishnamoorthy, Martin Woodward, 2010-05-21 Get up to speed on Application Lifecycle Management (ALM) with Visual Studio 2010 through a combination of hands-on instruction and deep dives. Microsoft has packed a lot of brand new testing and modeling tools into Visual Studio 2010, tools that previously were available only to Microsoft internal development teams. Developers will appreciate the focus on practical implementation techniques and best practices. A team of Microsoft insiders provides a nuts and bolts approach. This Wrox guide is designed as both a step-by-step guide and a reference for modeling, designing, and coordinating software development solutions at every level using Visual Studio 2010 and Visual Studio Team Foundation Server 2010. Visual Studio 2010 offers a complete lifecycle management system that covers modeling, testing, code analysis, collaboration, build, and deployment tools.

**Design and Construction of an RFID-enabled Infrastructure** Nagabhushana Prabhu, 2013-11-20 Internet 2.0, previously called the Internet of Things, presents a tantalizing vision of bridging the cyber and physical worlds to forge a seamless planet-wide infrastructure in which cyber resources and physical objects can interact without human intervention. The technology needed to build the infrastructure already exists. However, more than a...

**Pro Windows Server AppFabric** Stephen Kaufman, Danny Garber, 2010-04-28 This book will teach you all about Windows Server AppFabric, a set of extensions to Windows Server that allow it to function as a lightweight application server. The combination of Windows Server and AppFabric provides an easy-to-manage platform for developing, deploying, and reliably hosting middle-tier WCF/WS services. Windows Server AppFabric fills an important vacuum left in the wake of COM and COM+'s demise as the .NET platform has risen to prominence. Provided as an extension to Internet Information Services (IIS), the built-in application server frees you from having to create your own Windows services to perform application hosting. Instead, you can take advantage of plumbing and infrastructure that Microsoft provides for you, freeing you to focus on just your business logic while still being able to deploy n-tier solutions on Windows Server. In this way, Windows Server AppFabric solves the problem of developing, deploying, and reliably hosting middle-tier WCF/WS services. If you're an experienced developer, you'll want to learn about Windows Server AppFabric fast without a lot of reading. And that's what this book is all about. It cuts to the chase and shows you the simplicity and elegance

that combine to form Windows Server AppFabric getting you up to speed fast so that you can take advantage of all the platform has to offer

**Building Secure Microsoft ASP.NET Applications** Microsoft Corporation, 2003 Building secure distributed Web applications can be challenging It usually involves integrating several different technologies and products yet your complete application will only be as secure as its weakest link This guide presents a practical scenario driven approach to designing and building security enhanced ASP NET applications for Microsoft Windows 2000 and version 1.1 of the Microsoft NET Framework It focuses on the key elements of authentication authorization and secure communication within and across the tiers of distributed NET Web applications This guide focuses on Authenticating and Authorizing Users with ASP.NET Expert One-on-One™ Visual Basic® 2005 Database Programming Roger Jennings, 2006-02-13 Are you hesitant to migrate to Visual Studio .NET 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 .NET 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

**E-Technologies: Transformation in a Connected World** Gilbert Babin, Katarina Stanoevska-Slabeva, Peter Kropf, 2011-05-02 This volume constitutes the proceedings of the 5th International Conference on E Technologies MCETECH 2011 held in Les Diablerets Switzerland January 23-26 2011 Originally 10 papers were selected from a total of 32 submissions Seven additional papers were included following a second round of reviewing and improvement The papers in this volume cover topics such as process modeling organizational transformation e Business e Government e Education and e Health

**Advanced .NET Remoting** Mario Szpuszta, Ingo Rammer, 2006-11-22 Surpassing any white papers specialist documents and other documentation this book features in depth coverage of the NET Remoting Framework The text is organized into three main parts and this revised second edition features 150 pages of entirely new

material Part one includes a guide to the 1.1 framework and its capabilities in real world applications Part two presents .NET remoting internals and provides real world code and development strategies Finally part three looks at futuristic remoting tools and their present implementation in Visual Studio .NET 2005 You will come to see how remoting procedures will change within the new IDE and revised framework

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