

Microsoft Net Architecting Applications For The Enterprise

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Application Architecture for .NET
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Programming Microsoft ASP.NET 4
Microsoft Application Architecture for .NET
Architecting ASP.NET Core Applications
Building Secure Microsoft ASP.NET Applications
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Dino Esposito Andrea Saltarello
Dino Esposito; Andrea Saltarello Microsoft Corporation
John Ciliberti Dino Esposito
Dino Esposito Dario Benevento Microsoft Corporation
Carl-Hugo Marcotte Roger Jennings Yochay Kiriaty
Vivek Thakur Jerry Ablan Itzik Ben-Gan

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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

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

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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

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master machine learning concepts and develop real world solutions machine learning offers immense opportunities and introducing machine learning delivers practical knowledge to make the most of them dino and francesco esposito start with a quick overview of the foundations of artificial intelligence and the basic steps of any machine learning project next they introduce microsoft s powerful ml net library including capabilities for data processing training and evaluation they present families of algorithms that can be trained to solve real life problems as well as deep learning techniques utilizing neural networks the authors conclude by introducing valuable runtime services available through the azure cloud platform and consider the long term business vision for machine learning 14 time microsoft mvp dino esposito and francesco esposito help you explore what s known about how humans learn and how intelligent software is built discover which problems machine learning can address understand the machine learning pipeline the steps leading to a deliverable model use automl to automatically select the best pipeline for any problem and dataset master ml net implement its pipeline and apply its tasks and algorithms explore the mathematical foundations of machine learning make predictions improve decision making and apply probabilistic methods group data via classification and clustering learn the fundamentals of deep learning including neural network design leverage ai cloud services to build better real world solutions faster about this book for professionals who want to build machine learning applications both developers who need data science skills and data scientists who need relevant programming skills includes examples of machine learning coding scenarios built using the ml net library

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description architecting asp net core applications aims to be a reference guide for building modern reliable and scalable web applications this book guides you from foundational concepts to advanced techniques ensuring a solid understanding of asp net core s architecture and capabilities this book provides a practical guide to mastering asp net core from fundamental design principles like solid to advanced concepts such as modular architecture signalr for real time communication and deploying with docker and kubernetes it

explains when and how to apply these techniques offering hands on examples with repositories for solving real world challenges readers will learn key topics like restful api design clean architecture domain driven design hexagonal architecture routing middleware cqrs and modular monoliths the book also covers blazor for frontend development entity framework core for data access automated testing security debugging and performance tuning ensuring well rounded expertise in asp net core development by the end of this book you will be equipped to design and implement sophisticated asp net core applications confidently applying architectural principles best practices and advanced techniques to build high quality web solutions what you will learn design scalable and maintainable applications using popular principles like solid dry and kiss understand the architecture of systems and how to apply these principles in real life implement secure high performance apis and advanced deployment techniques use docker and kubernetes for modern systems solve real world business problems with practical coding examples build modular architectures with real time communication using signalr who this book is for this book is for developers and aspiring architects with a basic understanding of c and asp net core additionally software design professionals will find this book to be a refresher on contemporary backend development practices table of contents 1 introduction to asp net core 2 basics of asp net core 3 architectures and core components 4 designing restful apis 5 implementing routing in asp net core 6 middleware and extensibility 7 architectural principles 8 gof design patterns 9 cqrs in architecture 10 modular monolith 11 signalr in real time applications 12 automated testing 13 security in asp net core 14 securing applications effectively 15 error handling 16 containerization for seamless deployment 17 building responsive user interfaces with blazor 18 advanced user interfaces with blazor 19 debugging testing and performance tuning

building secure distributed 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 applications this guide focuses on authent

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