
Net Application Architecture 2nd Edition

The Practice of Enterprise Architecture - 2nd Edition - Book Review How to structure a .NET Solution (project separation \u0026amp; architecture) Five books to become a Software Architect Everything You NEED to Know About WEB APP Architecture Must have book for Architecture APIs Explained (in 4 Minutes) ASP.NET Core 8 Web API in Clean architecture from scratch System Design for Beginners Course Here's the Best Architecture for Your Blazor Web Apps in .NET 8 \u2013 I Tried 40+ No Code App Builders, THIS is the One I'd Use! .NET 8 Web API \u0026amp; Entity Framework \u2013 Full CRUD Course (with Code-First Migrations \u0026amp; SQL Server) Clean Architecture with ASP.NET Core by Steve Smith | BRDNUG June 2021 Diagrams as code 2 0 The Intersection of Microservices, Domain-Driven Design and Entity Framework Core Remarkable 2 thoughts - Distraction free writing for writers On .NET Live - Commands, Queries, and other architectural patterns for your .NET Application Intro to Blazor - Auri Rahimzadeh - Indy .NET Consortium Have

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Designing Distributed Systems
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Designing Data-Intensive Applications
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Release It!
ASP.NET Core 5 and React
Patterns of Enterprise Application Architecture
Customizing ASP.NET Core 6.0
Software Architect Bootcamp
Exam Ref 70-519 Designing and Developing Web Applications Using Microsoft .NET Framework 4 (MCPD)
Programming .NET Components
ASP.NET Core Recipes
ASP.NET 3.5 Application Architecture and Design
Microsoft .NET - Architecting Applications for the Enterprise
Hands-On Design Patterns with C# and .NET Core

Net
Application Architecture 2nd Edition
OMB No. 9547865947231
edited by

CRUZ ADELAIDE

Designing Distributed Systems Packt Publishing Ltd
This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through four complete sprints, this book takes you through every step needed to build brand new cross-

platform web apps with ASP.NET Core, and make them available on the Internet. You won't just master Microsoft's revolutionary open source ASP.NET Core technology: you'll learn how to integrate the immense power of MVC, Docker, Azure Web Apps, Visual Studio and Visual Studio Code, C#, JavaScript, TypeScript, and Entity Framework. Working through the authors'

carefully designed sprints, you'll start with a blank canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more. Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before.

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 Asp.Net Mvc,
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 FeaturesFind

out what are the essential personality traits and responsibilities of a solution architect. Become well-versed with architecture principles and modern design patterns with hands-on examples. Design modern web solutions and make the most of Azure DevOps to automate your development life cycle. Book Description: Understanding solution architecture is a must to build and integrate robust

systems to meet your client's needs. This makes it crucial for a professional .NET software engineer to learn the key skills of a .NET solution architect to create a unique digital journey and build solutions for a wide range of industries, from strategy and design to implementation. With this handbook, developers working with the .NET technology will be able to put their knowledge to work. The

book takes a hands-on approach to help you become an effective solution architect. You'll start by learning the principles of the software development life cycle (SDLC), the roles and responsibilities of a .NET solution architect, and what makes a great .NET solution architect. As you make progress through the chapters, you'll understand the principles of solution

architecture and how to design a solution, and explore designing layers and microservices. You'll complete your learning journey by uncovering modern design patterns and techniques for designing and building digital solutions. By the end of this book, you'll have learned how to architect your modern web solutions with ASP.NET Core and Microsoft Azure and be ready to automate your

development life cycle with Azure DevOps. What you will learn Understand the role and core responsibilities of a .NET solution architect Study popular UML (Unified Modeling Language) diagrams for solution architecture Work with modern design patterns with the help of hands-on examples Become familiar with microservices and designing layers Discover how to design modern web

solutions Automate your development life cycle with Azure DevOps Who this book is for This book is for intermediate and advanced .NET developers and software engineers who want to advance their careers and expand their knowledge of solution architecture and design principles. Beginner or intermediate-level solution architects looking for tips and tricks to build large-scale .NET

solutions will find this book useful.

Essential ASP.NET 2.0

Apress
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”—ha

ve 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.

DESIGNING DATA-INTENSIVE APPLICATIONS

Pearson Education 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.

SOLUTION ARCHITECTURE WITH .NET

Addison-Wesley Professional In-depth examination of concepts and principles of Web application development Completely revised and updated, this popular book returns with coverage on a range of new technologies. Authored by a

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| highly respected duo, this edition provides an in-depth examination of the core concepts and general principles of Web application development. Packed with examples featuring specific technologies, this book is divided into three sections: HTTP protocol as a foundation for Web applications, markup languages (HTML, XML, and CSS), and survey of | emerging technologies. After a detailed introduction to the history of Web applications, coverage segues to core Internet protocols, Web browsers, Web application development, trends and directions, and more. Includes new coverage on technologies such as application primers, Ruby on Rails, SOAP, XPath, P3P, and more. Explores the fundamentals of HTTP and its evolution | Looks at HTML and its roots as well as XML languages and applications. Reviews the basic operation of Web Servers, their functionality, configuration, and security. Discusses how to process flow in Web browsers and looks at active browser pages. Addresses the trends and various directions that the future of Web application frameworks may be headed. This book is essential reading for |
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anyone who needs to design or debug complex systems, and it makes it easier to learn the new application programming interfaces that arise in a rapidly changing Internet environment. Pearson Education A single dramatic software failure can cost a company millions of dollars - but can be avoided with simple changes to design and

architecture. This new edition of the best-selling industry standard shows you how to create systems that run longer, with fewer failures, and recover better when bad things happen. New coverage includes DevOps, microservices, and cloud-native architecture. Stability antipatterns have grown to include systemic problems in large-scale systems. This is a must-have

pragmatic guide to engineering for production systems. If you're a software developer, and you don't want to get alerts every night for the rest of your life, help is here. With a combination of case studies about huge losses - lost revenue, lost reputation, lost time, lost opportunity - and practical, down-to-earth advice that was all gained through painful experience, this book

helps you avoid the pitfalls that cost companies millions of dollars in downtime and reputation. Eighty percent of project life-cycle cost is in production, yet few books address this topic. This updated edition deals with the production of today's systems - larger, more complex, and heavily virtualized - and includes information on chaos engineering, the discipline of applying

randomness and deliberate stress to reveal systematic problems. Build systems that survive the real world, avoid downtime, implement zero-downtime upgrades and continuous delivery, and make cloud-native applications resilient. Examine ways to architect, design, and build software - particularly distributed systems - that stands up to the typhoon winds of a flash mob, a

Slashdotting, or a link on Reddit. Take a hard look at software that failed the test and find ways to make sure your software survives. To skip the pain and get the experience...get this book. [Release It!](#) "O'Reilly Media, Inc." This book introduces ASP.NET Core 3.1 MVC. It assumes the readers are familiar with C#, HTML, and Bootstrap. **ASP.NET Core 5 and React** Microsoft Press 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, 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

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| <p>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</p> | <p>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</p> | <p>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</p> |
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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. *Patterns of Enterprise Application Architecture* Packt Publishing Ltd
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
Customizing ASP.NET Core 6.0 Prentice Hall
 Make the right architectural decisions up front—and improve the quality and reliability of your results. Led by two enterprise

programming experts, you'll learn how to apply the patterns and techniques that help control project complexity—and make systems easier to build, support, and upgrade—right from the start. Get pragmatic architectural guidance on how to: Build testability, maintainability, and security into your system early in the design
 Expose business logic through a service-oriented

interface
 Choose the best pattern for organizing business logic and behavior
 Review and apply the patterns for separating the UI and presentation logic
 Delve deep into the patterns and practices for the data access layer
 Tackle the impedance mismatch between objects and data
 Minimize development effort and avoid over-engineering—and deliver more robust results
 Get code samples

on the Web.

Software Architect Bootcamp

Packt Publishing Ltd
 bull; Fully revised and updated to reflect the latest trends in software architecture bull; Allows you to execute heavyweight or lightweight approaches to architecture and identify the best architectural model for any project bull; Added coverage of UML 2.0 and Model-Driven Architecture

EXAM REF 70-519 DESIGNING AND DEVELOPING WEB APPLICATIONS USING MICROSOFT .NET FRAMEWORK 4 (MCPD)

Simon and Schuster
 The introduction of the Microsoft® .NET framework not only brings developers a powerful, cohesive toolset for the development of new Windows and Web

applications -- it also replaces COM as the technology of choice for building components on Windows platforms. Components are the fundamental building blocks of .NET applications; they can both simplify and add flexibility to complex applications. Applied properly, component-oriented programming enable reuse, allow for long-term maintenance, application extensibility

and scalability. Component technology is nothing new, but the .NET Framework offers developers a new way to develop binary components rapidly, without the hurdles that many COM developers have had to deal with prior to .NET. While retaining all of the core concepts that define component-oriented development--language independence, separation of interface from

implementation, binary compatibility, versioning, concurrency management, location transparency, security, deployment-- .NET is built upon a fresh component-oriented runtime that has an easier time providing these core concepts. Programming .NET Components offers a complete introduction to the new Microsoft .NET component model, focusing on the aspects of .NET that

make it ideal for building reusable, maintainable, and robust components. Author Juval Löwy, a noted authority on component-oriented programming, teaches the intricacies of .NET component programming and the related system issues to application developers, along with relevant design guidelines, tips, best practices, and known pitfalls. The book is packed with

helpful original utilities aimed at simplifying the programming model and increasing the developer productivity. The book begins with an appreciation for the "why" and fundamentals of component-oriented programming, and then continues with an introduction to .NET essentials. Following practical, expert advice on effective .NET development techniques,

the book then devotes a chapter to each of the following features critical to component development: Resource management
Versioning
Events
Asynchronous calls
Multithreading
Serialization
Remoting
Component services
Security.
Programming .NET
Components offers everything you'll need to know to program components for real-life .NET

applications, using Windows Forms, ASP.NET, ADO.NET, or web services. Anyone interested in developing .NET applications, especially enterprise level, will find this book an invaluable resource. Programming .NET Components "O'Reilly Media, Inc." Build fully functional, cloud-ready, and professional web applications using the latest features

in the .NET 5 framework and React.js with Microsoft Azure Key FeaturesExplore the new features of .NET 5 with this updated edition of ASP.NET Core 5 and ReactDiscover strategies for adopting a full-stack development approach, clean architecture techniques, and development best practicesLearn how to manage data, design and package applications, and secure

your web appsBook Description Microsoft's .NET framework is a robust server-side framework, now even more powerful thanks to the recent unification of the Microsoft ecosystem with the .NET 5 framework. This updated second edition addresses these changes in the .NET framework and the latest release of React. The book starts by taking you through React and TypeScript

components for building an intuitive single-page application and then shows you how to design scalable REST APIs that can integrate with a React-based frontend. Next, you'll get to grips with the latest features, popular patterns, and tools available in the React ecosystem, including function-based components, React Router, and Redux. As you progress through the chapters, you'll learn

how to use React with TypeScript to make the frontend robust and maintainable and cover key ASP.NET 5 features such as API controllers, attribute routing, and model binding to build a sturdy backend. In addition to this, you'll explore API security with ASP.NET 5 identity and authorization policies and write reliable unit tests using both .NET and React, before deploying

your app on Azure. By the end of this book, you'll have gained the knowledge you need to enhance your C# and JavaScript skills and build full-stack, production-ready applications with ASP.NET 5 and React. What you will learnBuild RESTful APIs with .NET 5 using API controllersSecure REST APIs with identity and authorization policiesCreate strongly typed, interactive, and function-

based React components using HooksUnderstand how to style React components using Emotion.jsPerform client-side state management with ReduxRun a range of automated tests on the frontend and backendImplement continuous integration and continuous delivery (CI/CD) processes in Azure using Azure DevOpsWho this book is for If you're a web

developer looking to get up to speed with full-stack web application development with .NET Core and React, this book is for you. Although the book does not assume any knowledge of React, a basic understanding of .NET Core will help you to get to grips with the concepts covered. *ASP.NET Core Recipes* Wiley Design scalable and high-performance enterprise applications using the

latest features of C# 8 and .NET Core 3 Key Features Become a software architect capable of creating modular apps for specific business needs Design high-performance software systems using the latest features of C# 8 and .NET Core 3 Solve scalability problems in web apps using enterprise architectural patterns Book Description Software architecture is the practice of

implementing structures and systems that streamline the software development process and improve the quality of an app. With this software architecture book, you'll follow a hands-on approach to learning various architectural methods that will help you develop and deliver high-quality products. You'll begin by understanding how to transform user requirements into architectural

needs and exploring the differences between functional and non-functional requirements. Next, you'll explore how to carefully choose a cloud solution for your infrastructure, along with covering dos and don'ts that will help you manage your app in a cloud-based environment. Later chapters will cover techniques and processes such as DevOps, microservices, and continuous integration,

along with providing insights into implementing them using Microsoft technologies such as ASP.NET Core, the Entity Framework, Cosmos DB, and Azure DevOps. You will also learn about testing frameworks and automation tools that will help you through the development process. Finally, you'll discover design patterns and various software approaches that will allow

you to solve common problems faced during development. By the end of this book, you'll be able to develop and deliver highly scalable enterprise-ready apps that meet customers' business needs. What you will learn Overcome real-world architectural challenges and solve design consideration issues Apply architectural approaches like Layered Architecture, service-

oriented architecture (SOA), and microservices
 Learn to use tools like containers, Docker, and Kubernetes to manage microservices
 Get up to speed with Azure Cosmos DB for delivering multi-continental solutions
 Learn how to program and maintain Azure Functions using C#
 Understand when to use test-driven development (TDD) as an approach for software

development
 Write automated functional test cases for your projects
 Who this book is for
 This book is for engineers and senior developers aspiring to become architects or looking to build enterprise applicat...
ASP.NET 3.5 Application Architecture and Design
 "O'Reilly Media, Inc."
 This thoroughly revised and updated Second Edition provides an in-depth

information that readers need to fully exploit the functionality of Microsoft's ASP.NET framework and Oracle's Database Server to build dynamic and interactive web applications that can handle a large number of simultaneous users. The book provides readers with information pertaining to ASP.NET 4.0 architecture; its installation, web controls, master pages, themes, state management, AJAX and

deployment of web applications. It includes the Hypertext Markup Language (HTML) and the Cascading Style Sheet (CSS), which are used for designing the web pages. In order to facilitate an easy learning of intricate concepts involved in the development of data-driven dynamic web applications, the book provides a detailed treatment on the Oracle Structured Query Language (SQL) and Oracle PL/SQL. It also introduces the distributed architecture and discusses how ASP.NET framework, Oracle database and Internet Information Services (IIS) can be used to develop and deploy the solutions for distributed environment. After going through this book, the students/professionals will be able to:

- Develop data-driven web applications using Oracle as back-end.
- Present data through data-bound controls.
- Manage consistent look and fill using master pages and themes.
- Develop stateful e-commerce applications.
- Develop rich interactive web applications using AJAX.
- Embed Microsoft Reports to produce dynamic printable output.
- Debug, deploy and secure web applications.

The book is intended to serve as a

guide for the undergraduate and postgraduate students of Computer Science, Computer Applications and Information Technology. Besides, it would also be useful to IT professionals to enhance their technical skills. Key Features More than 100 worked-out examples and 20 assignments. Around 200 objective and subjective type questions. Two real-world case studies

with solutions. Project development work following the complete SDLC process model. Three appendices, namely Integrating Microsoft Reports in ASP.NET, Installation of Visual Studio 2010, and Answers to Chapter-end Practice Questions. New to the Second Edition Provides information for designing and developing the web applications using Visual Studio.

Includes two new chapters—one on Master Pages, Themes and State Management and the other on AJAX in ASP.NET and Web Deployment of Application. Includes the new features of ASP.NET 4.0. Gives additional questions in each chapter. Includes a CD-ROM, which contains programs (tested with ASP.NET 4.0 and compatible with Oracle 10g) corresponding to all the

examples, assignments, case studies and the project included in the book. The installation processes of programs are described in the relevant chapters of the book.

Microsoft .NET - Architecting Applications for the Enterprise
Pearson Education
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. *Hands-On Design Patterns with C# and .NET Core* Pearson Education Without established design patterns to guide them, developers have had to build distributed systems from scratch, and most of these systems are very unique indeed. Today, the increasing use of containers has paved the way for core distributed system patterns and reusable containerized

components. This practical guide presents a collection of repeatable, generic patterns to help make the development of reliable distributed systems far more approachable and efficient. Author Brendan Burns—Director of Engineering at Microsoft Azure—demonstrates how you can adapt existing software design patterns for designing and building reliable

distributed applications. Systems engineers and application developers will learn how these long-established patterns provide a common language and framework for dramatically increasing the quality of your system. Understand how patterns and reusable components enable the rapid development of reliable distributed systems. Use the side-car, adapter, and ambassador patterns to

split your application into a group of containers on a single machine. Explore loosely coupled multi-node distributed patterns for replication, scaling, and communication between the components. Learn distributed system patterns for large-scale batch data processing covering work-queues, event-based processing, and coordinated workflows. *ASP.NET Core*

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| <p><i>Application Development</i> Microsoft Press Design scalable and high-performance enterprise applications using the latest features of C# 9 and .NET 5 Key Features Gain fundamental and comprehensive software architecture knowledge and the skillset to create fully modular apps Design high-performance software systems using the latest features of</p> | <p>.NET 5 and C# 9 Solve scalability problems in web apps using enterprise architecture patterns Book Description Software architecture is the practice of implementing structures and systems that streamline the software development process and improve the quality of an app. This fully revised and expanded second edition, featuring the latest features of .NET 5 and C# 9, enables you to acquire</p> | <p>the key skills, knowledge, and best practices required to become an effective software architect. This second edition features additional explanation of the principles of Software architecture, including new chapters on Azure Service Fabric, Kubernetes, and Blazor. It also includes more discussion on security, microservices, and DevOps, including GitHub deployments for the</p> |
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software development cycle. You will begin by understanding how to transform user requirements into architectural needs and exploring the differences between functional and non-functional requirements. Next, you will explore how to carefully choose a cloud solution for your infrastructure, along with the factors that will help you manage your app in a cloud-based environment. Finally, you

will discover software design patterns and various software approaches that will allow you to solve common problems faced during development. By the end of this book, you will be able to build and deliver highly scalable enterprise-ready apps that meet your organization's business requirements. What you will learnUse different techniques to overcome real-world

architectural challenges and solve design consideration issuesApply architectural approaches such as layered architecture, service-oriented architecture (SOA), and microservices Leverage tools such as containers, Docker, Kubernetes, and Blazor to manage microservices effectivelyGet up to speed with Azure tools and features for delivering global solutionsProgr

am and maintain Azure Functions using C# 9 and its latest features. Understand when it is best to use test-driven development (TDD) as an approach for software development. Write automated functional test cases. Get the best of DevOps principles to enable CI/CD environments. 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 book. [Hands-On Software Architecture with C# 8 and .NET Core 3](#) Packt Publishing Ltd. This is the eBook version of the print title, Framework Design Guidelines, Second Edition. Access to all

the samples, applications, and content on the DVD is available through the product catalog page www.informit.com/title/9780321545619. Navigate to the “Downloads” tab and click on the “DVD Contents” links - see instructions in back pages of your eBook. Framework Design Guidelines, Second Edition, teaches developers the best practices for designing reusable

libraries for the Microsoft .NET Framework. Expanded and updated for .NET 3.5, this new edition focuses on the design issues that directly affect the programmability of a class library, specifically its publicly accessible APIs. This book can improve the work of any .NET developer producing code that other developers will use. It includes copious annotations to

the guidelines by thirty-five prominent architects and practitioners of the .NET Framework, providing a lively discussion of the reasons for the guidelines as well as examples of when to break those guidelines. Microsoft architects Krzysztof Cwalina and Brad Abrams teach framework design from the top down. From their significant combined experience and deep

insight, you will learn The general philosophy and fundamental principles of framework design Naming guidelines for the various parts of a framework Guidelines for the design and extending of types and members of types Issues affecting—and guidelines for ensuring—extensibility How (and how not) to design exceptions Guidelines for—and examples of—common framework

design patterns Guidelines in this book are presented in four major forms: Do, Consider, Avoid, and Do not. These directives help focus attention on practices that should always be used, those that should generally be used, those that should rarely be used, and those that should never be used.

Every guideline includes a discussion of its applicability, and most include a code example to help illuminate the dialogue. Framework Design Guidelines, Second Edition, is the only definitive source of best practices for managed code API development, direct from the architects

themselves. A companion DVD includes the Designing .NET Class Libraries video series, instructional presentations by the authors on design guidelines for developing classes and components that extend the .NET Framework. A sample API specification and other useful resources and tools are also included.

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