



# Code Review Best Practices

# Net Code Review Best Practices

**Trevor Williams**



## **Net Code Review Best Practices:**

**Pro .NET Best Practices** Stephen Ritchie,2012-01-24 Pro NET Best Practices is a practical reference to the best practices that you can apply to your NET projects today You will learn standards techniques and conventions that are sharply focused realistic and helpful for achieving results steering clear of unproven idealistic and impractical recommendations Pro NET Best Practices covers a broad range of practices and principles that development experts agree are the right ways to develop software which includes continuous integration automated testing automated deployment and code analysis Whether the solution is from a free and open source or a commercial offering you will learn how to get a continuous integration server running and executing builds every time code changes You will write clearer and more maintainable automated testing code that focuses on prevention and helping your NET project succeed By learning and following the NET best practices in this book you will avoid making the same mistakes once With this book at your side you ll get Real world no nonsense approaches to continuous integration automated testing automated deployment and code analysis Tips and tricks you ll need to clear hurdles that keep others from putting these common sense ideas into common practice Guidance from the minimal essential approach all the way to what s necessary to deliver at the highest levels of quality and effectiveness Benefit immediately even before finishing it from the knowledge workable advice and experience found in Pro NET Best Practices [Writing High-Performance .NET Code, 2nd Edition](#) Ben Watson,2018-04-16 Take performance to the next level This book does not just teach you how the CLR works it teaches you exactly what you need to do now to obtain the best performance today It will expertly guide you through the nuts and bolts of extreme performance optimization in NET complete with in depth examinations of CLR functionality free tool recommendations and tutorials useful anecdotes and step by step guides to measure and improve performance This second edition incorporates the advances and improvements in NET over the last few years as well as greatly expanded coverage of tools more topics more tutorials more tips and improvements throughout the entire book New in the 2nd Edition 50% increase in content New examples code samples and diagrams throughout entire book More ways to analyze the heap and find memory problems More tool coverage including expanded usage of Visual Studio More benchmarking New GC configuration options Code warmup techniques New NET features such as ref returns value tuples SIMD and more More detailed analysis of LINQ Tips for high level feature areas such as ASP NET ADO NET and WPF Also find expanded coverage and discover new tips and tricks for Profiling with multiple tools to quickly find problem areas Detailed description of the garbage collector how to optimize your code for it and how to diagnose difficult memory related issues How to analyze JIT and diagnose warmup problems Effective use of the Task Parallel Library to maximize throughput Which NET features and APIs to use and which to avoid Instrument your program with performance counters and ETW events Use the latest and greatest NET features Build a performance minded team and so much more **ASP.NET 8 Best Practices** Jonathan R. Danylko,2023-12-29 Improve your ASP NET skills with industry proven techniques and practices

to make your code efficient and maintainable throughout the software development lifecycle Key Features Get to grips with standard guidelines for every phase of the SDLC encompassing pre coding coding and post coding stages Build high quality software by employing industry best practices throughout the development process Apply proven techniques to improve your coding debugging and deployment processes for websites Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAs NET 8 emerges as a long term support LTS release designed to assist developers in migrating legacy applications to ASP NET this best practices book becomes your go to guide for exploring the intricacies of ASP NET and advancing your skills as a software engineer full stack developer or web architect This book will lead you through project structure and layout setting up robust source control and employing pipelines for automated project building You ll focus on ASP NET components and gain insights into their commonalities As you advance you ll cover middleware best practices learning how to handle frontend tasks involving JavaScript CSS and image files You ll examine the best approach for working with Blazor applications and familiarize yourself with controllers and Razor Pages Additionally you ll discover how to leverage Entity Framework Core and exception handling in your application In the later chapters you ll master components that enhance project organization extensibility security and performance By the end of this book you ll have acquired a comprehensive understanding of industry proven concepts and best practices to build real world ASP NET 8 0 websites confidently What you will learn Explore the common IDE tools used in the industry Identify the best approach for organizing source control projects and middleware Uncover and address top web security threats implementing effective strategies to protect your code Optimize Entity Framework for faster query performance using best practices Automate software through continuous integration continuous deployment Gain a solid understanding of the NET Core coding fundamentals for building websites Harness HtmlHelpers TagHelpers ViewComponents and Blazor for component based development Who this book is for This book is for developers who have working knowledge of ASP NET and want to advance in their careers by learning best practices followed in developer communities or corporate environments Beginners can use this book as a springboard for integrating best practices into their learning journey and as a reference to gain clarity on advanced ASP NET topics at a later time

**Effective .NET Memory Management** Trevor Williams, 2024-07-30 Master optimal memory management techniques in NET Core from understanding memory allocation to implementing advanced garbage collection strategies Key Features Discover tools and strategies to build efficient scalable applications Implement NET memory management techniques to effectively boost your application s performance Uncover practical methods for troubleshooting memory leaks and diagnosing performance bottlenecks Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn today s software development landscape efficient memory management is crucial for ensuring application performance and scalability Effective NET Memory Management addresses this need by explaining the intricacies of memory utilization within NET Core apps from fundamental concepts to advanced optimization techniques Starting with an overview of memory

management basics you'll quickly go through .NET's garbage collection system. You'll grasp the mechanics of memory allocation and gain insights into the distinctions between stack and heap memory and the nuances of value types and reference types. Building on this foundation, this book will help you apply practical strategies to address real-world app demands, spanning profiling memory usage, spotting memory leaks, and diagnosing performance bottlenecks through clear explanations and hands-on examples. This book goes beyond theory, detailing actionable techniques to optimize data structures, minimize memory fragmentation, and streamline memory access in scenarios involving multithreading and asynchronous programming for creating responsive and resource-efficient apps that can scale without sacrificing performance. By the end of this book, you'll have gained the knowledge to write clean, efficient code that maximizes memory usage and boosts app performance. What you will learn: Master memory allocation techniques to minimize resource wastage. Differentiate between stack and heap memory and use them efficiently. Implement best practices for object lifetimes and garbage collection. Understand .NET Core's memory management principles for optimal performance. Identify and fix memory leaks to maintain application reliability. Optimize memory usage in multithreaded and asynchronous applications. Utilize memory profiling tools to pinpoint and resolve memory bottlenecks. Apply advanced memory management techniques to enhance app scalability. Who this book is for: This book is for developers and professionals who are beyond the beginner stage and seek in-depth knowledge of memory management techniques within the context of .NET Core. Whether you are an experienced developer aiming to enhance application performance or an architect striving for optimal resource utilization, this book serves as a comprehensive guide to mastering memory management intricacies. To fully benefit from this book, you should have a solid understanding of C# programming and familiarity with the basics of .NET Core development. **PCI**

**Compliance** Abhay Bhargav, 2014-05-05 Although organizations that store, process, or transmit cardholder information are required to comply with payment card industry standards, most find it extremely challenging to comply with and meet the requirements of these technically rigorous standards. **PCI Compliance: The Definitive Guide** explains the ins and outs of the payment card industry.

**Custom Controls Mastery: A Comprehensive Guide for .NET Developers** Pasquale De Marco, 2025-03-22 Harness the power of custom controls to create dynamic and engaging user interfaces with .NET. This comprehensive guide takes you on a deep dive into the world of custom control development, equipping you with the skills and knowledge to craft tailored UI elements that enhance the user experience. From the fundamentals of custom control architecture to advanced techniques for optimizing performance and troubleshooting issues, this book covers everything you need to know to master custom control development. Learn how to leverage the .NET Framework's control lifecycle, event handling, data binding, and localization to build robust and interactive controls. Explore advanced concepts such as data validation, asynchronous programming, multithreading, and accessibility, ensuring that your custom controls are not only functional but also efficient and accessible to all users. Delve into real-world application scenarios and build custom controls

like a calendar file explorer data grid chart and media player gaining hands on experience in crafting visually appealing and interactive UI elements Discover the art of performance optimization identifying bottlenecks and implementing strategies to ensure your custom controls run smoothly and efficiently Learn how to extend the NET Framework by creating your own custom control library enabling you to share your work with other developers and streamline your development process Throughout the book you ll find troubleshooting tips and debugging techniques to help you resolve issues and maintain the integrity of your custom controls Adhere to best practices and guidelines for developing high quality controls ensuring they are user friendly efficient and well documented Embrace the future of custom control development by exploring emerging trends and technologies such as cloud computing artificial intelligence cross platform development and security Stay ahead of the curve and create custom controls that are not only functional but also innovative and cutting edge If you like this book write a review

**Performance Tuning and Optimizing ASP.NET Applications** Kenneth Tu, Jeffrey Hasan, 2013-06-05 The technical book market today is flooded with a slew of titles on how to build applications with the NET technology and many are undoubtedly very good But the majority of these titles simply take a how to approach on programming with the NET Framework They often pay little more than cursory attention to the real world issues and challenges that developers face Performance is one of those challenges This book is for intermediate to advanced NET developers who need answers to the hard questions on how to build high performance ASP NET applications Authors Jeffrey Hasan and Kenneth Tu focus on how to make good design decisions for performance They discuss how to develop applications with performance in mind And they pay special attention to the tools available to developers to quantify and monitor performance issues and to diagnose performance problems more quickly Infused with the authors collective experiences gathered from years of building high performance web applications this is a book that developers will want to keep on the shelf for a long time

Testing ASP.NET Web Applications Jeff McWherter, Ben Hall, 2011-06-15 A unique resource that combines all aspects of Web testing and makes it completely specific to ASP NET As Microsoft s key Web technology for creating dynamic data driven Web sites and Web applications ASP NET is incredibly popular This is the first book to combine several testing topics and make them specific to ASP NET The author duo of Microsoft MVPs covers both the test driven development approach and the specifics of automated user interface testing performance load and stress testing accessibility testing and security testing This definitive guide walks you through the many testing pitfalls you might experience when developing ASP NET applications The authors explain the fundamental concepts of testing and demystify all the correct actions you need to consider and the tools that are available so that you may successfully test your application Author duo of Microsoft MVPs offer a unique resource a combination of several testing topics and making them specific to ASP NET Microsoft s key Web technology for creating dynamic data driven Web sites and applications Guides you through the many testing pitfalls you may experience when developing ASP NET applications Reviews the fundamental concepts of testing and walks you through the various tools and

techniques available and for successfully testing an application Discusses several different types of testing acceptance stress accessibility and security Examines various testing tools such as nUnit VS test suite WCAT Selenium Fiddler Firebug and more This one of a kind resource will help you become proficient in successful application testing

**ASP.NET Core 5 Secure Coding Cookbook** Roman Canlas, Ed Price, 2021-07-16 Learn how to secure your ASP NET Core web app through robust and secure code Key Features Discover the different types of security weaknesses in ASP NET Core web applications and learn how to fix them Understand what code makes an ASP NET Core web app unsafe Build your secure coding knowledge by following straightforward recipes Book Description ASP NET Core developers are often presented with security test results showing the vulnerabilities found in their web apps While the report may provide some high level fix suggestions it does not specify the exact steps that you need to take to resolve or fix weaknesses discovered by these tests In ASP NET Secure Coding Cookbook you ll start by learning the fundamental concepts of secure coding and then gradually progress to identifying common web app vulnerabilities in code As you progress you ll cover recipes for fixing security misconfigurations in ASP NET Core web apps The book further demonstrates how you can resolve different types of Cross Site Scripting A dedicated section also takes you through fixing miscellaneous vulnerabilities that are no longer in the OWASP Top 10 list This book features a recipe style format with each recipe containing sample unsecure code that presents the problem and corresponding solutions to eliminate the security bug You ll be able to follow along with each step of the exercise and use the accompanying sample ASP NET Core solution to practice writing secure code By the end of this book you ll be able to identify unsecure code causing different security flaws in ASP NET Core web apps and you ll have gained hands on experience in removing vulnerabilities and security defects from your code What you will learn Understand techniques for squashing an ASP NET Core web app security bug Discover different types of injection attacks and understand how you can prevent this vulnerability from being exploited Fix security issues in code relating to broken authentication and authorization Eliminate the risks of sensitive data exposure by getting up to speed with numerous protection techniques Prevent security misconfiguration by enabling ASP NET Core web application security features Explore other ASP NET web application vulnerabilities and secure coding best practices Who this book is for This ASP NET Core book is for intermediate level ASP NET Core web developers and software engineers who use the framework to develop web applications and are looking to focus on their security using coding best practices The book is also for application security engineers analysts and specialists who want to know more about securing ASP NET Core using code and understand how to resolve issues identified by the security tests they perform daily

**Software Development Lifecycle Made Simple: A Practical Guide with Examples** William E. Clark, 2025-04-22 Software Development Lifecycle Made Simple A Practical Guide with Examples offers a clear and comprehensive introduction to the processes principles and best practices of modern software development Designed for beginners and aspiring professionals this book demystifies the complexities of the software development lifecycle SDLC

guiding readers step by step from foundational programming concepts to the structured methodologies that drive successful projects. The book is organized to mirror real world workflows covering every phase of development including planning, requirements analysis, design, implementation, testing, deployment, and ongoing maintenance. Each chapter breaks down essential topics such as algorithms, programming languages, debugging, version control, collaborative practices, quality assurance, security, and project management. A continuous case study reinforces each concept by demonstrating how it applies to a practical software project, making the principles tangible and directly relevant to actual development scenarios. Readers will gain a strong understanding of how software products are envisioned, constructed, and maintained in professional settings. By emphasizing both technical skills and the broader project context, this guide equips learners with the knowledge and confidence needed to participate effectively in software development teams. Whether preparing for a technical role or seeking to understand the mechanics of software project execution, this book provides a reliable foundation and a practical pathway for further growth in the field.

*A Developer's Guide to .NET Mastery* Pasquale De Marco, 2025-04-17

In a world driven by technology where software applications have become integral to our daily lives, .NET stands as a beacon of innovation and empowerment for developers seeking to create transformative solutions. This comprehensive guide unlocks the boundless potential of .NET, guiding you on a journey from novice to mastery. With crystal clear explanations and hands-on examples, this book demystifies the intricacies of C# programming, the cornerstone of .NET development. Embark on a quest to conquer object-oriented programming paradigms, mastering the art of crafting modular, maintainable, and extensible code. Delve into the depths of data structures and algorithms, unlocking the secrets of efficient data management and manipulation. Discover the power of Entity Framework, a gateway to seamless database integration, enabling you to effortlessly bridge the gap between your applications and the wealth of data at their disposal. Venture into the dynamic realm of web development, harnessing the capabilities of ASP.NET to forge interactive and engaging user interfaces. Unleash the potential of Windows Forms, a versatile framework for crafting desktop applications that seamlessly interact with users. As the world embraces the transformative power of cloud computing, this guide propels you into the realm of Microsoft Azure, an ever-expanding platform offering a plethora of services that redefine scalability, reliability, and cost effectiveness. Learn to leverage Azure's vast capabilities, from storage and database management to web application deployment and beyond. Performance and scalability are paramount in the world of software development. This book equips you with the knowledge and techniques to optimize your code, implement caching strategies, and scale your applications to handle even the most demanding workloads. Stay abreast of the latest advancements in .NET, demystifying the intricacies of .NET 6 and beyond. Discover emerging trends and best practices that shape the future of .NET development, ensuring you remain at the forefront of innovation. This book is your definitive guide to mastering .NET, empowering you to transform ideas into tangible solutions that drive progress and innovation. Embark on this journey of discovery and unlock the full potential of



this transformative technology If you like this book write a review on google books      **Software Testing ,      Refactoring with C#** Matt Eland,2023-11-24 Learn how to improve the maintainability of C code using modern tools and techniques to resolve technical debt while working safely and efficiently with legacy code Key Features Apply a wide range of refactoring techniques using the latest tools and features of C Discover ways to safely improve your code using tests Roslyn analyzers and AI assistance Find ways of communicating technical debt and improving your code in agile and enterprise settings Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionSoftware projects start as brand new greenfield projects but invariably become muddled in technical debt far sooner than you d expect In Refactoring with C you ll explore what technical debt is and how it arises before walking through the process of safely refactoring C code using modern tooling in Visual Studio and more recent C language features using C 12 and NET 8 This book written by a Microsoft MVP will guide you through the process of refactoring safely through advanced unit testing with XUnit and libraries like Moq Snapper and Scientist NET You ll explore maintainable code through SOLID principles and defensive coding techniques made possible in newer versions of C You ll also find out how to run code analysis and write custom Roslyn analyzers to detect and resolve issues unique to your code The nature of coding is changing and you ll explore how to use AI with the GitHub Copilot Chat to refactor test document and generate code before ending with a discussion about communicating technical debt to leadership and getting organizational buy in to refactor your code in enterprise organizations and in agile teams By the end of this book you ll understand the nature of refactoring and see how you can safely effectively and repeatably pay down the technical debt in your application while adding value to your business What you will learn Understand technical debt its causes and effects and ways to prevent it Explore different ways of refactoring classes methods and lines of code Discover how to write effective unit tests supported by libraries such as Moq Understand SOLID principles and factors that lead to maintainable code Use AI to analyze improve and test code with the GitHub Copilot Chat Apply code analysis and custom Roslyn analyzers to ensure that code stays clean Communicate tech debt and code standards successfully in agile teams Who this book is for This book is for any developer familiar with C who wants to improve the code they work with on a day to day basis While this book will be most beneficial to new developers with only a year or two of experience even senior engineers and engineering managers can make the most of this book by exploring not just the process of refactoring but advanced techniques with libraries like Moq Snapper Scientist NET and writing custom Roslyn analyzers      **ASP.NET Security Unleashed: Mastering Authentication, Authorization, and Membership** Pasquale De Marco,2025-04-08 In today s digital landscape where cyber threats are constantly evolving securing web applications has become a critical imperative ASP NET a powerful framework for building dynamic and interactive web applications demands a comprehensive approach to security to safeguard sensitive data and maintain user trust Introducing ASP NET Security Unleashed Mastering Authentication Authorization and Membership an authoritative guide that equips developers with the

knowledge and expertise to protect their ASP NET applications from a wide range of security vulnerabilities This comprehensive resource delves into the intricacies of ASP NET security providing practical guidance on implementing robust security measures to prevent unauthorized access data breaches and malicious attacks Throughout this comprehensive guide readers will explore a diverse range of security techniques from authentication and authorization mechanisms to data encryption and secure coding practices In depth coverage is provided for securing ASP NET applications in distributed systems including web services microservices and cloud based applications Moreover the book examines emerging security trends and best practices such as DevSecOps zero trust architecture and application self protection These cutting edge approaches empower developers to stay ahead of the evolving threat landscape and ensure the long term security of their ASP NET applications Written in a clear and engaging style ASP NET Security Unleashed is an essential resource for both seasoned ASP NET developers seeking to enhance their security expertise and newcomers eager to build secure web applications from the ground up With its comprehensive coverage real world examples and practical insights this book serves as a valuable guide for securing ASP NET applications and safeguarding sensitive data Embrace a proactive approach to ASP NET security and embark on a journey towards building impenetrable web applications that withstand the test of time If you like this book write a review

**DEVELOP WITH C# & ASP.NET CORE** Diego Rodrigues,2025-08-01 DEVELOP WITH C ASP NET CORE Build Secure APIs and Professional Web Integrations This book is intended for students and professionals who want to master building secure integrated and scalable APIs using C and ASP NET Core in corporate and cloud environments The content covers modular architecture deployment automation advanced integration with leading frameworks containers authentication messaging logging and API governance It addresses professional practices for operating on Azure AWS and Google Cloud CI CD SQL and NoSQL databases microservices patterns background jobs and cloud native orchestration You will learn to Structure professional projects apply patterns and modularization Create and version RESTful APIs implement JWT authentication OAuth2 Identity and OpenID Connect Integrate solutions with Azure AWS Google Cloud Docker Kubernetes and Terraform Automate CI CD pipelines with Azure DevOps GitHub Actions Jenkins and GitLab Manage secrets and configurations with Azure Key Vault AWS Secrets Manager and Google Secret Manager Use Entity Framework Core with relational and NoSQL databases Integrate messaging with RabbitMQ Kafka Azure Service Bus and Amazon SQS Implement structured logging Application Insights Prometheus Grafana and OpenTelemetry Adopt microservices patterns distributed caching API Gateway background services and webhooks Ensure governance documentation and monitoring in critical environments By the end you will be prepared to create integrate automate and operate robust NET solutions aligned with the highest market standards security compliance and innovation c asp net core azure aws google cloud docker kubernetes entity framework terraform ci cd jwt identity microservices messaging devops observability api gateway Engineering Information Security Stuart Jacobs,2015-12-01 Engineering Information Security

covers all aspects of information security using a systematic engineering approach and focuses on the viewpoint of how to control access to information Includes a discussion about protecting storage of private keys SCADA Cloud Sensor and Ad Hoc networks Covers internal operations security processes of monitors review exceptions and plan remediation Over 15 new sections Instructor resources such as lecture slides assignments quizzes and a set of questions organized as a final exam If you are an instructor and adopted this book for your course please email [ieeeproposals@wiley.com](mailto:ieeeproposals@wiley.com) to get access to the additional instructor materials for this book

*Mastering PLC* Cybellium, Unlock the Potential of Programmable Logic Controllers In the realm of industrial automation Programmable Logic Controllers PLCs play a pivotal role in controlling and monitoring complex processes Mastering PLC is your definitive guide to mastering these versatile devices empowering you to design program and optimize automation systems with confidence About the Book As industries evolve and automation becomes more prevalent the need for skilled PLC professionals grows exponentially Mastering PLC provides a comprehensive exploration of PLC technology a cornerstone of modern industrial control systems This book caters to both beginners and experienced engineers aiming to become proficient in PLC design programming and operation Key Features

**PLC Essentials** Begin by understanding the core components and functions of PLCs Learn how PLCs interface with sensors actuators and other industrial equipment

**PLC Programming** Dive into the world of PLC programming languages Explore ladder logic structured text and function block diagram languages for creating efficient control programs

**HMI Integration** Grasp the art of integrating PLCs with Human Machine Interfaces HMIs Learn how to design intuitive interfaces for monitoring and controlling industrial processes

**Industrial Networking** Explore protocols and techniques for networking PLCs within industrial environments Understand how to establish communication between PLCs and other devices

**PLC Troubleshooting** Learn essential troubleshooting techniques for diagnosing and resolving PLC related issues Explore strategies to ensure uninterrupted operations

**Safety and Compliance** Delve into the realm of safety in PLC systems Understand safety standards interlock circuits and fail safe mechanisms that safeguard personnel and equipment

**Advanced PLC Concepts** Grasp advanced concepts such as motion control PID control and data logging Explore how to implement sophisticated control strategies

**Real World Applications** Gain insights into how PLCs are applied across industries From manufacturing to energy management discover the diverse applications of PLC technology

**Why This Book Matters** In an era where automation is transforming industries mastering PLCs is a sought after skill Mastering PLC empowers engineers automation specialists and technology enthusiasts to harness the potential of PLCs enabling them to design and optimize automation systems that enhance efficiency and precision

**Elevate Your Industrial Automation Skills** In the realm of industrial automation PLCs are the backbone of control systems Mastering PLC equips you with the knowledge needed to leverage PLC technology enabling you to design program and optimize automation systems that drive productivity and innovation Whether you re a seasoned professional or new to the field this book will guide you in building a strong foundation for effective

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*Practical Guidelines and Best Practices for Microsoft Visual Basic and Visual C# Developers* Francesco Balena,Giuseppe Dimauro,2005 Presents more than seven hundred programming techniques for Microsoft Visual BASIC and Visual C

Advances in ICT Research in the Balkans Costin Bădică,Marjan Gušev,Adrian Iftene,Mirjana Ivanović,Yannis Manolopoulos,Stelios Xinogalos,2025-03-04 This book constitutes the refereed proceedings of the 10th Balkan Conference in Informatics on Advances in ICT Research in the Balkans BCI 2024 held in Craiova Romania during September 4 6 2024 The 23 full papers included in this book were carefully reviewed and selected from 31 submissions They were organized in topical sections as follows Data Mining and Machine Learning Software and Systems Languages and Text Learning Issues Distributed Systems Medical and Health Issues Web Issues and Tools Security and Privacy

**ASP.NET Core 6 and Angular** Valerio De Sanctis,2022-04-06 Design build and deploy robust web applications using ASP NET 6 Angular 13 and Entity Framework Core Key FeaturesThe most up to date book that covers cutting edge features released in ASP NET Core 6 and Angular 13Create a production ready Single Page Application SPA or Progressive Web Application PWA Adopt a full stack approach to handle data management API documentation Web APIs end to end testing security and deploymentBook Description Every full stack ninja needs the tools to operate on front end and back end application development This web app development book takes a hands on project based approach to provide you with all the tools and techniques that web developers need to create debug and deploy efficient web applications using ASP NET Core and Angular The fifth edition has been updated to cover advanced topics such as Minimal APIs Web APIs with GraphQL real time updates with SignalR and new features in NET 6 and Angular 13 You begin by building a data model with Entity Framework Core alongside utilizing the Entity Core Fluent API and EntityTypeConfiguration class You ll learn how to fetch and display data and handle user input with Angular reactive forms and front end and back end validators for maximum effect Later you will perform advanced debugging and explore the unit testing features provided by xUnit net NET 6 and Jasmine as well as Karma for Angular After adding authentication and authorization to your apps you will explore progressive web applications learning about their technical requirements testing processes and how to convert a standard web application to a PWA By the end of this web development book you will understand how to tie together the front end and back end to build and deploy secure and robust web applications What you will learnUse the new Visual Studio Standalone TypeScript Angular templateImplement and consume a Web API interface with ASP NET CoreSet up an SQL database server using a local instance or a cloud datastorePerform C and TypeScript debugging using Visual Studio 2022Create TDD and BDD unit tests using xUnit Jasmine and KarmaPerform DBMS structured logging using providers such as SeriLogDeploy web apps to Azure App Service using IIS Kestrel and NGINXLearn to develop fast and flexible Web APIs using GraphQLAdd real time capabilities to Angular apps with ASP NET Core SignalRWho this book is for This book is for experienced ASP NET developers who already possess some

familiarity with ASP NET Core and Angular and are looking to learn how to use them effectively together The fully documented code samples also available on GitHub and the step by step implementation tutorials make this book easy to follow

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### **Net Code Review Best Practices Introduction**

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