

Dependency Injection in .NET

Mark Seemann

Foreword by **Gertjan Blokx**



MANNING



Dependency Injection In Net Mark Seemann

Samuele Resca



Dependency Injection In Net Mark Seemann:

Dependency Injection Principles, Practices, and Patterns Mark Seemann, Steven van Deursen, 2019-03-06 Summary
Dependency Injection Principles Practices and Patterns teaches you to use DI to reduce hard coded dependencies between application components You ll start by learning what DI is and what types of applications will benefit from it Then you ll work through concrete scenarios using C and the NET framework to implement DI in your own projects As you dive into the thoroughly explained examples you ll develop a foundation you can apply to any of the many DI libraries for NET and NET Core Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Dependency Injection DI is a great way to reduce tight coupling between software components Instead of hard coding dependencies such as specifying a database driver you make those connections through a third party Central to application frameworks like ASP NET Core DI enables you to better manage changes and other complexity in your software About the Book Dependency Injection Principles Practices and Patterns is a revised and expanded edition of the bestselling classic Dependency Injection in NET It teaches you DI from the ground up featuring relevant examples patterns and anti patterns for creating loosely coupled well structured applications The well annotated code and diagrams use C examples to illustrate principles that work flawlessly with modern object oriented languages and DI libraries What s Inside Refactoring existing code into loosely coupled code DI techniques that work with statically typed OO languages Integration with common NET frameworks Updated examples illustrating DI in NET Core About the Reader For intermediate OO developers About the Authors Mark Seemann is a programmer software architect and speaker who has been working with software since 1995 including six years with Microsoft Steven van Deursen is a seasoned NET developer and architect and the author and maintainer of the Simple Injector DI library Table of Contents PART 1 Putting Dependency Injection on the map The basics of Dependency Injection What why and how Writing tightly coupled code Writing loosely coupled code PART 2 Catalog DI patterns DI anti patterns Code smells PART 3 Pure DI Application composition Object lifetime Interception Aspect Oriented Programming by design Tool based Aspect Oriented Programming PART 4 DI Containers DI Container introduction The Autofac DI Container The Simple Injector DI Container The Microsoft Extensions DependencyInjection DI Container

Dependency Injection In.Net Mark Seemann, Dependency Injection in NET is a comprehensive guide than introduces DI and provides an in depth look at applying DI practices to NET apps In it you will also learn to integrate DI together with such technologies as Windows Communication Foundation ASP NET MVC Windows Presentation Foundation and other core NET components Building on your existing knowledge of C and the NET platform this book will be most beneficial for readers who have already built at least a few software solutions of intermediate complexity Most examples are in plain C without use of any particular DI framework Later the book introduces several well known DI frameworks such as StructureMap Windsor and Spring NET For each framework it presents examples of its particular usage as well as examines how the framework

relates to the common patterns presented earlier in the book Mastering Ninject for Dependency Injection Daniel Baharestani, 2013-09-25 Mastering Ninject for Dependency Injection teaches you the most powerful concepts of Ninject in a simple and easy to understand format using lots of practical examples diagrams and illustrations Mastering Ninject for Dependency Injection is aimed at software developers and architects who wish to create maintainable extensible testable and loosely coupled applications Since Ninject targets the .NET platform this book is not suitable for software developers of other platforms Being familiar with design patterns such as singleton or factory would be beneficial but no knowledge of dependency injection or IoC is assumed Agile Softwareentwicklung mit C# (Microsoft Press) Gary McLean Hall, 2015-07-01 Wie geht man am besten mit wechselnden Anforderungen im Lauf eines Softwareprojektes um Wie kann man Änderungen im Code einfach zeitsparend und ohne Fehler umsetzen Agile Methoden und Prozesse wie Scrum helfen aber auch der Code selbst muss adaptiv und agil sein Zentrales Thema dieses Buchs ist die Entwicklung von anpassungsfähigem C# Code der agilen Teams die Arbeit erleichtert und bewährte Prinzipien der objektorientierten Programmierung insbesondere SOLID berücksichtigt Das Ergebnis ist ein praxisorientiertes Werk das Ihnen anhand vieler Code Beispiele verdeutlicht wie Sie in einem agilen Umfeld Code schreiben können der flexibel und adaptiv ist Lernen Sie wie Sie Unit Tests richtig einsetzen welche Methoden der Refaktorisierung effektiv sind wie Sie wichtige Patterns verwenden und gefährliche Anti Patterns vermeiden Dieses Buch macht Ihren Code agil Die Scrum Grundlagen Artefakte Rollen Kennzahlen und Phasen Organisation und Management von Abhängigkeiten Best Practices für Patterns und Anti Patterns Beherrschung der SOLID Prinzipien Single Responsibility Open Closed Liskovsche Substitution Schnittstellen richtig managen um anpassungsfähigen Code zu erhalten Unit Tests und Refaktorisierung im Zusammenspiel Einfluss von Delegation und Abstraktion auf die Anpassungsfähigkeit von Code Implementierung von Dependency Injection Die praktische Anwendung dieser Prinzipien im Rahmen eines agilen Projekts An Atypical ASP.NET Core 5 Design Patterns Guide Carl-Hugo Marcotte, 2020-12-31 A .NET developer's guide to crafting robust maintainable and flexible web apps by leveraging C# 9 and .NET 5 features and component scale and application scale design patterns Key Features Apply software design patterns effectively starting small and progressing to cloud scale Discover modern application architectures such as vertical slice clean architecture and event driven microservices Explore ASP.NET design patterns from options to full stack web development using Blazor Book Description Design patterns are a set of solutions to many of the common problems occurring in software development Knowledge of these design patterns helps developers and professionals to craft software solutions of any scale ASP.NET Core 5 Design Patterns starts by exploring basic design patterns architectural principles dependency injection and other ASP.NET Core mechanisms You'll explore the component scale as you discover patterns oriented toward small chunks of the software and then move to application scale patterns and techniques to understand higher level patterns and how to structure the application as a whole The book covers a range of significant GoF Gangs of Four design patterns such as strategy singleton

decorator facade and composite The chapters are organized based on scale and topics allowing you to start small and build on a strong base the same way that you would develop a program With the help of use cases the book will show you how to combine design patterns to display alternate usage and help you feel comfortable working with a variety of design patterns Finally you ll advance to the client side to connect the dots and make ASP NET Core a viable full stack alternative By the end of the book you ll be able to mix and match design patterns and have learned how to think about architecture and how it works What you will learnApply the SOLID principles for building flexible and maintainable softwareGet to grips with NET 5 dependency injectionWork with GoF design patterns such as strategy decorator and compositeExplore the MVC patterns for designing web APIs and web applications using RazorDiscover layering techniques and tenets of clean architectureBecome familiar with CQRS and vertical slice architecture as an alternative to layeringUnderstand microservices what they are and what they are notBuild ASP NET UI from server side to client side BlazorWho this book is for This design patterns book is for intermediate level software and web developers with some knowledge of NET who want to write flexible maintainable and robust code for building scalable web applications Knowledge of C programming and an understanding of web concepts like HTTP is necessary

[Hands-On RESTful Web Services with ASP.NET Core 3](#) Samuele Resca, 2019-12-27 Get up to speed with the latest features of C 8 ASP NET Core 3 and NET Core 3 1 LTS to create robust and maintainable web services Key FeaturesApply design patterns and techniques to achieve a reactive scalable web serviceDocument your web services using the OpenAPI standard and test them using PostmanExplore mechanisms to implement a secure web service using client side SSL and token authenticationBook Description In recent times web services have evolved to play a prominent role in web development Applications are now designed to be compatible with any device and platform and web services help us keep their logic and UI separate Given its simplicity and effectiveness in creating web services the RESTful approach has gained popularity and this book will help you build RESTful web services using ASP NET Core This REST book begins by introducing you to the basics of the REST philosophy where you ll study the different stages of designing and implementing enterprise grade RESTful web services You ll also gain a thorough understanding of ASP NET Core s middleware approach and learn how to customize it The book will later guide you through improving API resilience securing your service and applying different design patterns and techniques to achieve a scalable web service In addition to this you ll learn advanced techniques for caching monitoring and logging along with implementing unit and integration testing strategies In later chapters you will deploy your REST web services on Azure and document APIs using Swagger and external tools such as Postman By the end of this book you will have learned how to design RESTful web services confidently using ASP NET Core with a focus on code testability and maintainability What you will learnGain a comprehensive working knowledge of ASP NET CoreIntegrate third party tools and frameworks to build maintainable and efficient servicesImplement patterns using dependency injection to reduce boilerplate code and improve flexibilityUse ASP NET Core s out of the box tools to test your

applications Use Docker to run your ASP NET Core web service in an isolated and self contained environment Secure your information using HTTPS and token based authentication Integrate multiple web services using resiliency patterns and messaging techniques Who this book is for This book is for anyone who wants to learn how to build RESTful web services with the ASP NET Core framework to improve the scalability and performance of their applications Basic knowledge of C and NET Core will help you make the best use of the code samples included in the book ASP.NET Core in Action, Third Edition Andrew Lock, 2023-11-14 Build professional grade full stack web applications using C and ASP NET Core In ASP NET Core in Action Third Edition you ll learn how to Build minimal APIs for serving JSON to client side applications Create dynamic server side rendered applications using Razor Pages User authentication and authorization Store data using Entity Framework Core Unit and integration tests for ASP NET Core applications Write custom middleware and components Fully updated to ASP NET Core 7 0 In ASP NET Core in Action Third Edition Microsoft MVP Andrew Lock teaches you how you can use your C and NET skills to build amazing cross platform web applications This revised bestseller reveals the latest NET patterns including minimal APIs and minimal hosting Even if you ve never worked with ASP NET you ll start creating productive cross platform web apps fast Illustrations and annotated code make learning visual and easy About the technology The ASP NET Core web framework delivers everything you need to build professional quality web applications With productivity boosting libraries for server side rendering secure APIs easy data access and more you ll spend your time implementing features instead of researching syntax and tracking down bugs This book is your guide About the book ASP NET Core in Action Third Edition shows you how to create production grade web applications with ASP NET Core 7 0 You ll learn from hands on examples insightful illustrations and nicely explained code Updated coverage in this Third Edition includes creating minimal APIs securing APIs with bearer tokens WebApplicationBuilder and more About the reader For beginning to intermediate web developers Examples are in C About the author Andrew Lock is a Microsoft MVP who has worked with ASP NET Core since before its first release Table of Contents 1 Getting started with ASP NET Core 2 Understanding ASP NET Core 3 Your first application 4 Handling requests with the middleware pipeline 5 Creating a JSON API with minimal APIs 6 Mapping URLs to endpoints using routing 7 Model binding and validation in minimal APIs 8 An introduction to dependency injection 9 Registering services with dependency injection 10 Configuring an ASP NET Core application 11 Documenting APIs with OpenAPI 12 Saving data with Entity Framework Core 13 Creating a website with Razor Pages 14 Mapping URLs to Razor Pages using routing 15 Generating responses with page handlers in Razor Pages 16 Binding and validating requests with Razor Pages 17 Rendering HTML using Razor views 18 Building forms with Tag Helpers 19 Creating a website with MVC controllers 20 Creating an HTTP API using web API controllers 21 The MVC and Razor Pages filter pipeline 22 Creating custom MVC and Razor Page filters 23 Authentication Adding users to your application with Identity 24 Authorization Securing your application 25 Authentication and authorization for APIs 26 Monitoring and

troubleshooting errors with logging 27 Publishing and deploying your application 28 Adding HTTPS to an application 29 Improving your application s security 30 Building ASP NET Core apps with the generic host and Startup 31 Advanced configuration of ASP NET Core 32 Building custom MVC and Razor Pages components 33 Calling remote APIs with HttpClientFactory 34 Building background tasks and services 35 Testing applications with xUnit 36 Testing ASP NET Core applications

An Atypical ASP.NET Core 6 Design Patterns Guide Carl-Hugo Marcotte, Abdelhamid Zebdi, 2022-03-28 The professional developer s essential guide to building robust maintainable and flexible web apps by leveraging C 10 and NET 6 features and component and application scale design patterns Key Features Apply the SOLID architectural principles and software design patterns effectively with a focus on dependency injection Discover modern application architectures such as vertical slice clean architecture and event driven microservices Explore full stack ASP NET Core with an overview of Blazor Book Description *An Atypical ASP NET Core 6 Design Patterns Guide* Second Edition approaches programming like playing with LEGO snapping small pieces together to create something beautiful Thoroughly updated for ASP NET Core 6 with further coverage of microservices patterns data contracts and event driven architecture this book gives you the tools to build and glue reliable components together to improve your programmatic masterpieces The chapters are organized based on scale and topic allowing you to start small and build on a strong base the same way that you would develop a program You will begin by exploring basic design patterns SOLID architectural principles dependency injection and other ASP NET Core 6 mechanisms You will explore component scale patterns and then move to higher level application scale patterns and techniques to better structure your applications Finally you ll advance to the client side to connect the dots with tools like Blazor and make ASP NET Core a viable full stack web development framework You will supplement your learning with practical use cases and best practices exploring a range of significant Gang of Four GoF design patterns along the way By the end of the book you will be comfortable combining and implementing patterns in different ways and crafting software solutions of any scale What you will learn Apply the SOLID principles for building flexible and maintainable software Get to grasp NET dependency Injection Work with GoF design patterns such as strategy decorator facade and composite Explore the MVC patterns for designing web APIs and web applications using Razor Discover layering techniques and tenets of clean architecture Become familiar with CQRS and vertical slice architecture as an alternate to layering Understand microservices and when they can benefit your applications Build an ASP NET user interfaces from server side to client side Blazor Who this book is for The book is intended for intermediate software and web developers with an understanding of NET who want to write flexible maintainable and robust code for building scalable web applications Knowledge of C programming and an understanding of web concepts like HTTP is necessary

Architecting ASP.NET Core Applications Carl-Hugo Marcotte, 2024-03-22 Backend design like you ve never seen it before a guide to building SOLID ASP NET Core web apps that stand the test of time Featuring more Minimal APIs more testing a new e commerce project and the modular monolith

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Key Features Learn multiple ways to organize your application code and become a more flexible ASP.NET Core developer Explore hands on design patterns learn architectural principles and how to sidestep anti patterns Refactor code toward modern application design such as feature based vertical slice and clean architecture

Book Description This unique ASP.NET Core book will fill in the gaps in your REST API and backend designs Learn how to build robust maintainable and flexible apps using Gang of Four GoF design patterns and modern architectural principles This new edition is updated for .NET 8 and focuses exclusively on the backend with new content on REST APIs the REPR pattern and building modular monoliths You'll start by covering foundational concepts like REST the SOLID principles Minimal APIs dependency injection in .NET and other ASP.NET Core 8 mechanisms Then you'll learn to develop components using design patterns including many from the GoF Finally you'll explore organizing your application code with patterns that vary from layers to feature oriented vertical slice designs covering CQS and a deep dive into microservices along the way A brand new e-commerce project at the end of the book will tie it all together This how to guide will teach you how to assemble your own APIs from building blocks to suit whatever real world requirements you may have What you will learn Apply the SOLID principles for building flexible and maintainable software Test your apps effectively with automated tests including black box testing Embark on mastering ASP.NET Core dependency injection Work with GoF design patterns including strategy decorator facade and composite Design REST APIs using Minimal APIs and ASP.NET Core MVC Discover layering and the tenets of clean architecture Use feature oriented techniques as an alternative to layering Explore microservices CQS REPR vertical slice architecture and many more patterns Who this book is for This book is for intermediate level ASP.NET Core developers who want to improve their C# app code structure and API design skills ASP.NET developers who want to modernize their knowledge and enhance their technical architecture skills will also like this book It's also a good refresher for those in software design roles with more experience looking to update their expertise A good knowledge of C# programming and a basic understanding of web concepts is necessary to get the most out of this book though some refreshers are included along the way

Practical Microsoft Visual Studio 2015 Peter Ritchie, 2016-11-21

Learn the details of the most highly recommended practices of software development using the latest version of Visual Studio 2015 Recommended practices are grouped by development phase and explained in far more detail than the typical tips and tricks compilations This book also contains detailed coverage of recognized patterns and practices used to create software in a timely manner with expected quality in the context of using specific Visual Studio 2015 features Creating software is part defined process and part empirical process While there is no single best process to employ in all development scenarios MVP author Peter Ritchie helps readers navigate the complexity of development options and decide which techniques and Visual Studio 2015 features to use based on the needs of their particular project Readers will learn practices such as those related to working in teams design and architecture refactoring source code control workflows unit testing performance testing

coding practices use of common patterns code analysis IDE extensions and more What You Will Learn Use patterns and practices within Visual Studio Implement practices of software creation Work in teams Develop workflows for software projects Who This Book Is For Beginning and intermediate software developers and architects **ASP.NET Core MVC 2.0 Cookbook** Jason De Oliveira,Engin Polat,Stephane Belkheraz,2018-02-27 Learn to implement ASP NET Core features to build effective software that can be scaled and maintained easily Key Features Practical solutions to recurring issues in the web development world Recipes on the latest features of ASP Net Core 2 0 Coverage of Bootstrap Angular and JavaScript lets you supercharge your frontend Book Description The ASP NET Core 2 0 Framework has been designed to meet all the needs of today s web developers It provides better control support for test driven development and cleaner code Moreover it s lightweight and allows you to run apps on Windows OSX and Linux making it the most popular web framework with modern day developers This book takes a unique approach to web development using real world examples to guide you through problems with ASP NET Core 2 0 web applications It covers Visual Studio 2017 and ASP NET Core 2 0 specfic changes and provides general MVC development recipes It explores setting up NET Core Visual Studio 2017 Node js modules and NuGet Next it shows you how to work with Inversion of Control data pattern and caching We explore everyday ASP NET Core MVC 2 0 patterns and go beyond it into troubleshooting Finally we lead you through migrating hosting and deploying your code By the end of the book you ll not only have explored every aspect of ASP NET Core MVC 2 0 you ll also have a reference you can keep coming back to whenever you need to get the job done What you will learn Build ASP Net Core 2 0 applications using HTTP services with WebApi Learn to unit test load test and perform test applications using client side and server side frameworks Debug monitor and troubleshoot ASP Net Core 2 0 applications using popular tools Reuse components with NuGet and create modular components with middleware Create applications using client side technologies such as HTML5 JavaScript jQuery and Angular Build responsive and dynamic UIs for your MVC apps using Bootstrap Leverage tools like Karma Jasmine QUnit xUnit Selenium Microsoft Fakes and Visual Studio 2017 Enterprise Who this book is for This book is written for the ASP NET developer who wants to deliver professional standard software quickly and efficiently It s filled with hands on recipes practical advice and guidance to help developers with every aspect of the ASP NET development cycle Whether you ve just started out or are a seasoned pro the Asp Net Core 2 0 Cookbook is written for you [Entity Framework Core in Action, Second Edition](#) Jon P Smith,2021-06-08 Entity Framework Core in Action Second Edition teaches you to write flawless database interactions for NET applications Following relevant examples from author Jon Smith s extensive experience you ll progress quickly from EF basics to advanced techniques In addition to the latest EF features this book addresses performance security refactoring and unit testing This updated edition also contains new material on NoSQL databases *Clean Code with C#* Jason Alls,2023-12-22 Enhance your programming skills through code reviews TDD and BDD implementation and API design to overcome code inefficiency redundancy and other issues arising from bad code Key

Features Write code that seamlessly integrates with other systems while maintaining well defined software boundaries Understand how coding principles and standards elevate software quality Learn how to avoid common errors while implementing concurrency or threading Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionTraditionally associated with Windows desktop applications and game development C has expanded into web cloud and mobile development However despite its extensive coding features professionals often encounter issues with efficiency scalability and maintainability due to poor code Clean Code in C guides you in identifying and resolving these problems using coding best practices This book starts by comparing good and bad code to emphasize the importance of coding standards principles and methodologies It then covers code reviews unit testing and test driven development and addresses cross cutting concerns As you advance through the chapters you ll discover programming best practices for objects data structures exception handling and other aspects of writing C computer programs You ll also explore API design and code quality enhancement tools while studying examples of poor coding practices to understand what to avoid By the end of this clean code book you ll have the developed the skills needed to apply industry approved coding practices to write clean readable extendable and maintainable C code What you will learn Master the art of writing evolvable and adaptable code Implement the fail pass refactor methodology using a sample C console application Develop custom C exceptions that provide meaningful information Identify low quality C code in need of refactoring Improve code performance using profiling and refactoring tools Create efficient and bug free code using functional programming techniques Write cross platform code using MAUI Develop cloud deployable microservices for versatile applications Who this book is for This coding book is for proficient C developers team leads senior software engineers and software architects who want to improve the efficiency of their legacy systems A strong understanding of C programming is assumed *Reactive Applications with Akka.NET* Anthony Brown,2019-03-05 Summary Reactive Applications with Akka NET is a hands on book that builds on fundamental concepts to teach you how to create reliable and resilient applications in the reactive style Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Enterprise scale software needs to be unfailingly reliable consistently performant under unpredictable loads and easy to scale and maintain Reactive applications guarantee these qualities through clear isolation of system components and message based communication Akka NET ports the battle tested Akka Actors toolkit from the JVM radically simplifying the concurrency and asynchronous message handling at the heart of a reactive system About the Book Reactive Applications with Akka NET teaches you to write high performance concurrent systems without explicitly managing threads and locking You ll experience the power of Akka NET and the Actors concurrency model by exploring a real world case study in each chapter As you go further you ll start to grok the power of asynchronous communication in a distributed environment and take on practical tasks like deploying debugging and establishing performance guarantees What s Inside Reactive application design Dealing with application level

failures Integrating Akka NET with other frameworks Applying reactive programming to the real world About the Reader Readers should be comfortable with C or F and the NET framework About the Author Anthony Brown is a NET consultant specializing in F and reactive systems Table of Contents PART 1 THE ROAD TO REACTIVE Why reactive Reactive application design PART 2 DIGGING IN Your first Akka NET application State behavior and actors Configuration dependency injection and logging Failure handling Scaling in reactive systems Composing actor systems PART 3 REAL LIFE USAGE Testing Akka NET actors Integrating Akka NET Storing actor state with Akka Persistence Building clustered applications with Akka Cluster Akka NET and reactive programming in production

Pro ASP.NET Core MVC 2 Adam Freeman,2017-10-24 Now in its 7th edition the best selling book on MVC is updated for ASP NET Core MVC 2 It contains detailed explanations of the Core MVC functionality which enables developers to produce leaner cloud optimized and mobile ready applications for the NET platform This book puts ASP NET Core MVC into context and dives deep into the tools and techniques required to build modern cloud optimized extensible web applications All the new MVC features are described in detail and the author explains how best to apply them to both new and existing projects The ASP NET Core MVC Framework is the latest evolution of Microsoft s ASP NET web platform built on a completely new foundation It represents a fundamental change to how Microsoft constructs and deploys web frameworks and is free of the legacy of earlier technologies such as Web Forms ASP NET Core MVC provides a host agnostic framework and a high productivity programming model that promotes cleaner code architecture test driven development and powerful extensibility Best selling author Adam Freeman has thoroughly revised this market leading book and explains how to get the most from ASP NET Core MVC He starts with the nuts and bolts and shows you everything through to advanced features going in depth to give you the knowledge you need The book includes a fully worked case study of a functioning web application that readers can use as a template for their own projects What s New in This Edition Fully updated for Visual Studio 2017 C 7 and NET Core 2 Coverage of new features such as view filters Wider platform and tooling coverage than ever before with more on Visual Studio Code and working with NET Core on non Windows platforms Docker based application deployment What You Will Learn Gain a solid architectural understanding of ASP NET Core MVC Explore the entire ASP NET MVC Framework as a cohesive whole See how MVC and test driven development work in action Learn what s new in ASP NET Core MVC 2 and how best to apply these new features to your own work See how to create RESTful web services and Single Page Applications Build on your existing knowledge of previous MVC releases to get up and running with the new programming model quickly and effectively Who This Book Is For This book is for web developers with a basic knowledge of ASP NET and C who want to incorporate the latest improvements and functionality in the ASP NET Core MVC 2 Framework

ASP.NET MVC 4 in Action Jeffrey Palermo,James Bogard,Eric Hexter,Matthew Hinze,2012-05-24 Summary ASP NET MVC 4 in Action is a fast paced tutorial designed to introduce ASP NET MVC to NET developers and show how to apply it effectively All examples in this revised edition are based on ASP NET

MVC 4 so you'll get full coverage of features such as the Razor view engine Web Matrix helpers and improved extensibility. You'll see how your ASP.NET applications can benefit from changes in the .NET Framework. About the Technology: ASP.NET MVC provides the architecture needed to separate an application's logic and its UI. Because each component's role is well defined, MVC applications are easy to test, maintain, and extend. The latest version, ASP.NET MVC 4, takes advantage of .NET 4 and includes powerful features like the Razor view engine, Web Matrix helpers, and enhanced extensibility. About the Book: ASP.NET MVC 4 in Action is a hands-on guide that shows you how to apply ASP.NET MVC effectively. After a high-speed ramp up, this thoroughly revised new edition explores each key topic with a self-contained example so you can jump right to the parts you need. Based on thousands of hours of real-world experience, the authors show you valuable high-end techniques you won't find anywhere else. Written for developers, the book arms you with the next-level skills and practical guidance to create compelling web applications. You need some knowledge of ASP.NET and C#, but no prior ASP.NET MVC experience is assumed. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside: Complete coverage of ASP.NET MVC 4. The new Web API. Full system testing. About the Authors: Jeffrey Palermo, Jimmy Bogard, Eric Hexter, Matthew Hinze, and Jeremy Skinner are all ASP.NET MVPs, ASP insiders, and early adopters of ASP.NET MVC. Table of Contents: PART 1: HIGH-SPEED FUNDAMENTALS: Introduction to ASP.NET MVC, Hello MVC, world view, fundamentals, action-packed controllers. PART 2: WORKING WITH ASP.NET MVC: View models, validation, Ajax in ASP.NET MVC, security, controlling URLs with routing, model binders and value providers, mapping with AutoMapper, lightweight controllers, organization with areas, third-party components, data access with NHibernate. PART 3: MASTERING ASP.NET MVC: Extending the controller, advanced view techniques, dependency injection and extensibility, portable areas, full system testing, hosting ASP.NET MVC applications, deployment techniques, upgrading to ASP.NET MVC 4, ASP.NET Web API.

Pro ASP.NET Core MVC ADAM FREEMAN, 2016-09-15. Visual Studio 2017 updates for this book are now available. Follow the Download Source Code link for this book on the Apress website. Now in its 6th edition, the best-selling book on MVC is now updated for ASP.NET Core MVC. It contains detailed explanations of the new Core MVC functionality, which enables developers to produce leaner, cloud-optimized and mobile-ready applications for the .NET platform. This book puts ASP.NET Core MVC into context and dives deep into the tools and techniques required to build modern, cloud-optimized, extensible web applications. All the new MVC features are described in detail, and the author explains how best to apply them to both new and existing projects. The ASP.NET Core MVC Framework is the latest evolution of Microsoft's ASP.NET web platform, built on a completely new foundation. It represents a fundamental change to how Microsoft constructs and deploys web frameworks and is free of the legacy of earlier technologies such as Web Forms. ASP.NET Core MVC provides a host-agnostic framework and a high-productivity programming model that promotes cleaner code, architecture, test-driven development, and powerful extensibility. Best-selling author Adam Freeman has thoroughly revised this market-leading book and explains how

to get the most from ASP NET Core MVC He starts with the nuts and bolts and shows you everything through to advanced features going in depth to give you the knowledge you need This book follows the same format and style as the popular previous editions but brings everything up to date for the new ASP NET Core MVC release It presents a fully worked case study of a functioning ASP NET MVC application that readers can use as a template for their own projects What You Will Learn Gain a solid architectural understanding of ASP NET Core MVC Explore the entire ASP NET MVC Framework as a cohesive whole See how MVC and test driven development work in action Learn what s new in ASP NET Core MVC and how best to apply these new features to your own work See how to create RESTful web services and Single Page Applications Build on your existing knowledge of previous MVC releases to get up and running with the new programming model quickly and effectively Who This Book Is For This book is for web developers with a basic knowledge of ASP NET and C who want to incorporate the latest improvements and functionality in the new ASP NET Core MVC Framework Code like a Pro in C# Jort Rodenburg,2021-08-24 Build on your existing programming skills and upskill to professional level C programming Summary In Code Like A Pro in C you will learn Unit testing and test driven development Refactor a legacy NET codebase Principles of clean code Essential backend architecture skills Query and manipulate databases with LINQ and Entity Framework Core Critical business applications worldwide are written in the versatile C language and the powerful NET platform running on desktops cloud systems and Windows or Linux servers Code Like a Pro in C makes it easy to turn your existing abilities in C or another OO language such as Java into practical C mastery There s no Hello World or Computer Science 101 basics you ll learn by refactoring an out of date legacy codebase using new techniques tools and best practices to bring it up to modern C standards Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology You know the basics now get ready for the next step Pro quality C code is efficient clean and fast Whether you re building user facing business applications or writing data intensive backend services the experience based practical techniques in this book will take your C skills to a new level About the book Code Like a Pro in C teaches you to how write clean C code that s suitable for enterprise applications In this book you ll refactor a legacy codebase by applying modern C techniques You ll explore tools like Entity Framework Core design techniques like dependency injection and key practices like testing and clean coding It s a perfect path to upgrade your existing C skills or shift from another OO language into C and the NET ecosystem What s inside Unit testing and test driven development Refactor a legacy NET codebase Principles of clean code Query and manipulate databases with LINQ and Entity Framework Core About the reader For developers experienced with object oriented programming No C experience required About the author Jort Rodenburg is a software engineer who has taught numerous courses on getting up to speed with C and NET Table of Contents PART 1 USING C AND NET 1 Introducing C and NET 2 NET and how it compiles PART 2 THE EXISTING CODEBASE 3 How bad is this code 4 Manage your unmanaged resources PART 3 THE DATABASE ACCESS LAYER 5 Setting

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Code That Fits in Your Head Mark Seemann, 2022-07-04 Techniken für sauberen und wartbaren Code sowie für die Reduktion von Komplexität Software nachhaltig entwickeln und Legacy Code beherrschen Produktivität steigern durch strukturierte Arbeitsabläufe und effiziente Fehlerbehandlung Dieses Buch ist ein praktischer Leitfaden für das Schreiben von nachhaltigem Programmcode und die Reduktion von Komplexität die Schuld daran ist dass Softwareprojekte langfristig außer Kontrolle geraten Mark Seemann unterstützt seit Jahrzehnten Softwareentwickler Teams bei der erfolgreichen Umsetzung komplexer Projekte In diesem Buch begleitet er Sie von den ersten Codezeilen bis zum Deployment und zeigt Ihnen wie Sie im Entwicklungsprozess effizient bleiben wenn Sie neue Funktionalitäten implementieren Optimierungen vornehmen und Fehler beheben Dabei gibt er Ihnen für alle wichtigen Kernprobleme wertvolle Hinweise Techniken und Arbeitsabläufe an die Hand von der Verwendung von Checklisten bis zur Teamarbeit von Kapselung und API Design bis zu Unit Testing Seemann veranschaulicht seine Konzepte anhand von Codebeispielen aus einem vollständigen Beispielprojekt in C Der Code ist so geschrieben dass er gut verständlich für jeden ist der eine objektorientierte Programmiersprache verwendet einschliesslich Java C und Python Der gesamte Code steht zur weiteren Erkundung zum Download zur Verfügung Wenn Sie jemals negative Erfahrungen bei der Umsetzung von Softwareprojekten oder mit schlecht wartbarem Legacy Code gemacht haben wird dieses Praxisbuch Ihnen helfen solche Schwierigkeiten ab sofort von Anfang an zu vermeiden Mark Seemann ist dafür bekannt komplexe Konzepte anschaulich und präzise zu erläutern In diesem Buch kondensiert er seine weitreichende Erfahrung in der Softwareentwicklung zu praktischen pragmatischen Techniken für nachhaltigen und gut lesbaren Code Dieses Buch ist ein Must Read für jeden Programmierer

The Art of Unit Testing Roy Osherove, 2015

Reviewing **Dependency Injection In Net Mark Seemann**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Dependency Injection In Net Mark Seemann**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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