

## C And Net Core Test Driven Development Dive Into Tdd To Create Flexible Maintainable And Production Ready Net Core Applications

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Only a couple of days after we came to know about the potential performance of the Alder Lake-S flagship Core i9-12900K, we have a new leak today that allegedly details the specs of the upcoming CPUs.

~~Detailed specifications of Alder Lake-S Core i9-12900K and more SKUs reportedly leak~~

Most of the core group of Flyers veterans -- defined here as upper lineup fixtures who are age 26 or older -- has been together in Philadelphia since the ...

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Alcoa Corporation (NYSE: AA) today reported its highest ever quarterly net income and earnings per share, capturing the benefits of strong aluminum pricing with improved customer demand, stable ...

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~~Thrive Global Raises \$80 Million Series C to Accelerate Hypergrowth and Impact~~

" Rather than flowing through the core, it ' s wrapped up in millions of these little ... Although the microreactor will be transportable onboard a C-17, the first iteration of Project Pele will not be ...

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The device delivers improved screen brightness for visibility and increased security as a Microsoft Secured-Core PC. Lastly ... keyboard that includes an additional USB Type-A and Type-C @ port. With ...

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~~United Airlines wants planes from Boom Supersonic to fly passengers faster than the speed of sound~~

Beal is signed for two more years at age 27, but could test free agency or get dealt before ... Damian Lillard and C.J. McCollum have been a long-standing productive duo, but the roster is largely ...

~~Ranking The NBA 's Seven Head Coaching Vacancies~~

Visa is touching down in Washington, D.C., one of the U.S. cities with the ... global head of buyer, seller, core and platform products, Visa. " With our technology, networking and community ...

~~Visa Launches its First U.S. Tap to Phone Pilot in Washington D.C. to Support Region 's Black Owned Small Businesses~~

It paid off, he said. Last year was a tough test for businesses in all industries, but Redman believes Sellen ' s core values guided it through the pandemic ' s darkest days. It ' s not what ...

~~How a tumultuous year put Sellen's core values to the test~~

Mr. Rasmussen continued, " At Crown, we are just now beginning to test the true ... south of the first C-Horst drill platforms. Three reverse circulation rigs and one core rig were active at ...

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Core Scientific, a leading infrastructure and software solutions provider for blockchain and artificial intelligence, announced today that Fujitsu Australia will resell its industry-leading Plexus™ ...

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Democratic leaders plan to call a test vote to try to advance the bill ... court cases challenging the legal justification for the C.D.C. ' s order — the public health risk posed by the ...

~~Democrats Plan Debate on Voting Rights Bill~~

But its proponents say it offers the best shot over the long term at making a core food source if not fully ... of carnivorous salmon caged in open-net pens suspended in the ocean, the typical ...

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along with significant support from labor unions and deep ties to core Democratic constituencies, including working- and middle-class voters of color. " I am going to be your mayor, " Mr. Adams ...

~~Adams Leads in N.Y.C. Mayoral Primary, but Ranked Choice Awaits~~

That means those looking to test out Apple's Arcade ... Apple estimates that the 8-core processor will offer up a 50% jump in performance over 2020's model, with a 40% boost in GPU performance ...

~~The best cheap iPad deals in July 2021~~

They propose this radical green-mining approach to provide essential metals for a net zero future—copper ... The team has worked on drill core from a number of deep geothermal systems (in ...

With constantly changing business requirements and technical environments, the code needs to evolve too. Building applications using test-driven development process ensures that they work properly irrespective of such changes. In this book, you will learn to make such robust and production-ready applications with C# and .NET.

Summary The Art of Unit Testing, Second Edition guides you step by step from writing your first simple tests to developing robust test sets that are maintainable, readable, and trustworthy. You'll master the foundational ideas and quickly move to high-value subjects like mocks, stubs, and isolation, including frameworks such as Moq, FakeItEasy, and Typemock Isolator. You'll explore test patterns and organization, working with legacy code, and even "untestable" code. Along the way, you'll learn about integration testing and techniques and tools for testing databases and other technologies. About this Book You know you should be unit testing, so why aren't you doing it? If you're new to unit testing, if you find unit testing tedious, or if you're just not getting enough payoff for the effort you put into it, keep reading. The Art of Unit Testing, Second Edition guides you step by step from writing your first simple unit tests to building complete test sets that are maintainable, readable, and trustworthy. You'll move quickly to more complicated subjects like mocks and stubs, while learning to use isolation (mocking) frameworks like Moq, FakeItEasy, and Typemock Isolator. You'll explore test patterns and organization, refactor code applications, and learn how to test "untestable" code. Along the way, you'll learn about integration testing and techniques for testing with databases. The examples in the book use C#, but will benefit anyone using a statically typed language such as Java or C++. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside Create readable, maintainable, trustworthy tests Fakes, stubs, mock objects, and isolation (mocking) frameworks Simple dependency injection techniques Refactoring legacy code About the Author Roy Osherove has been coding for over 15 years, and he consults and trains teams worldwide on the gentle art of unit testing and test-driven development. His blog is at ArtOfUnitTesting.com. Table of Contents PART 1 GETTING STARTED The basics of unit testing A first unit test PART 2 CORE TECHNIQUES Using stubs to break dependencies Interaction testing using mock objects Isolation (mocking) frameworks Digging deeper into isolation frameworks PART 3 THE TEST CODE Test hierarchies and organization The pillars of good unit tests PART 4 DESIGN AND PROCESS Integrating unit testing into the organization Working with legacy code Design and testability

Get the definitive guide on designing applications on the Microsoft application platformâ€”straight from the Microsoft patterns & practices team. Learn how to choose the most appropriate

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architecture and the best implementation technologies that the Microsoft application platform offers applications developers. Get critical design recommendations and guidelines organized by application type— from Web, mobile, and rich Internet applications to Office Business Applications. You'll also get links to additional technical resources that can help with your application development.

Hands-on guidance to creating great test-driven development practice Test-driven development (TDD) practice helps developers recognize a well-designed application, and encourages writing a test before writing the functionality that needs to be implemented. This hands-on guide provides invaluable insight for creating successful test-driven development processes. With source code and examples featured in both C# and .NET, the book walks you through the TDD methodology and shows how it is applied to a real-world application. You'll witness the application built from scratch and details each step that is involved in the development, as well as any problems that were encountered and the solutions that were applied. Clarifies the motivation behind test-driven development (TDD), what it is, and how it works Reviews the various steps involved in developing an application and the testing that is involved prior to implementing the functionality Discusses unit testing and refactoring Professional Test-Driven Development with C# shows you how to create great TDD processes right away.

Radically improve your testing practice and software quality with new testing styles, good patterns, and reliable automation. Key Features A practical and results-driven approach to unit testing Refine your existing unit tests by implementing modern best practices Learn the four pillars of a good unit test Safely automate your testing process to save time and money Spot which tests need refactoring, and which need to be deleted entirely Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About The Book Great testing practices maximize your project quality and delivery speed by identifying bad code early in the development process. Wrong tests will break your code, multiply bugs, and increase time and costs. You owe it to yourself—and your projects—to learn how to do excellent unit testing. Unit Testing Principles, Patterns and Practices teaches you to design and write tests that target key areas of your code including the domain model. In this clearly written guide, you learn to develop professional-quality tests and test suites and integrate testing throughout the application life cycle. As you adopt a testing mindset, you'll be amazed at how better tests cause you to write better code. What You Will Learn Universal guidelines to assess any unit test Testing to identify and avoid anti-patterns Refactoring tests along with the production code Using integration tests to verify the whole system This Book Is Written For For readers who know the basics of unit testing. Examples are written in C# and can easily be applied to any language. About the Author Vladimir Khorikov is an author, blogger, and Microsoft MVP. He has mentored numerous teams on the ins and outs of unit testing. Table of Contents: PART 1 THE BIGGER PICTURE 1 | The goal of unit testing 2 | What is a unit test? 3 | The anatomy of a unit test PART 2 MAKING YOUR TESTS WORK FOR YOU 4 | The four pillars of a good unit test 5 | Mocks and test fragility 6 | Styles of unit testing 7 | Refactoring toward valuable unit tests PART 3 INTEGRATION TESTING 8 | Why integration testing? 9 | Mocking best practices 10 | Testing the database PART 4 UNIT TESTING ANTI-PATTERNS 11 | Unit testing anti-patterns

Most people who write software have at least some experience with unit testing—even if they don't call it that. If you have ever written a few lines of throwaway code just to try something out, you've built a unit test. On the other end of the software spectrum, many large-scale applications have huge batteries of test cases that are repeatedly run and added to throughout the development process. What are unit test frameworks and how are they used? Simply stated, they are software tools to support writing and running unit tests, including a foundation on which to build tests and the functionality to execute the tests and report their results. They are not solely tools for testing; they can also be used as development tools on a par with preprocessors and debuggers. Unit test frameworks can contribute to almost every stage of software development and are key tools for doing Agile Development and building big-free code. Unit Test Frameworks covers the usage, philosophy, and architecture of unit test frameworks. Tutorials and example code are platform-independent and compatible with Windows, Mac OS X, Unix, and Linux. The companion CD includes complete versions of JUnit, CppUnit, NUnit, and XMLUnit, as well as the complete set of code examples.

Leverage the full potential of Entity Framework with this collection of powerful and easy-to-follow recipes About This Book Learn how to use the new features of Entity Framework Core 1 Improve your queries by leveraging some of the advanced features Avoid common pitfalls Make the best of your .NET APIs by integrating with Entity Framework Who This Book Is For This book is for .NET developers who work with relational databases on a daily basis and understand the basics of Entity Framework, but now want to use it in a more efficient manner. You are expected to have some prior knowledge of Entity Framework. What You Will Learn Master the technique of using sequence key generators Validate groups of entities that are to be saved / updated Improve MVC applications that cover applications developed using ASP.NET MVC Core 1 Retrieve database information (table, column names, and so on) for entities Discover optimistic concurrency control and pessimistic concurrency control. Implement Multilatency on the data side of things. Enhance the performance and/or scalability of Entity Framework Core Explore and overcome the pitfalls of Entity Framework Core In Detail Entity Framework is a highly recommended Object Relation Mapping tool used to build complex systems. In order to survive in this growing market, the knowledge of a framework that helps provide easy access to databases, that is, Entity Framework has become a necessity. This book will provide .NET developers with this knowledge and guide them through working efficiently with data using Entity Framework Core. You will start off by learning how to efficiently use Entity Framework in practical situations. You will gain a deep understanding of mapping properties and find out how to handle validation in Entity Framework. The book will then explain how to work with transactions and stored procedures along with improving Entity Framework using query libraries. Moving on, you will learn to improve complex query scenarios and implement transaction and concurrency control. You will then be taught to improve and develop Entity Framework in complex business scenarios. With the concluding chapter on performance and scalability, this book will get you ready to use Entity Framework proficiently. Style and approach Filled with rich code-based examples, this book takes a recipe-based approach that will teach .NET developers to improve their understanding of Entity Framework and help them effortlessly apply this knowledge in everyday situations.

Hands-On Design Patterns with C# and .NET Core covers all the essential design patterns that help .NET developers build effective applications. The book will add to your skills by showing you how these patterns can be implemented easily in everyday programming, enabling you to develop robust applications with optimal performance.

ASP.NET Core in Action, Second Edition is a comprehensive guide to creating web applications with ASP.NET Core 5.0. Go from basic HTTP concepts to advanced framework customization. Summary Fully

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updated to ASP.NET 5.0, ASP.NET Core in Action, Second Edition is a hands-on primer to building cross-platform web applications with your C# and .NET skills. Even if you've never worked with ASP.NET you'll start creating productive cross-platform web apps fast. And don't worry about late-breaking changes to ASP.NET Core. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Build full-stack web applications that run anywhere. Developers love ASP.NET Core for its libraries and pre-built components that maximize productivity. Version 5.0 offers new features for server-side apps, as well as background services for cross-platform development. About the book ASP.NET Core in Action, Second Edition is a comprehensive guide to creating web applications with ASP.NET Core 5.0. Go from basic HTTP concepts to advanced framework customization. Illustrations and annotated code make learning visual and easy. Master logins, dependency injection, security, and more. This updated edition covers the latest features, including Razor Pages and the new hosting paradigm. What's inside Developing apps for Windows and non-Windows servers Configuring applications Building custom components Logging, testing, and security About the reader For intermediate C# developers. About the author Andrew Lock is a Microsoft MVP who has worked with ASP.NET Core since before its first release. Table of Contents PART 1 - GETTING STARTED WITH ASP.NET CORE 1 Getting started with ASP.NET Core 2 Your first application 3 Handling requests with the middleware pipeline 4 Creating a website with Razor Pages 5 Mapping URLs to Razor Pages using routing 6 The binding model: Retrieving and validating user input 7 Rendering HTML using Razor views 8 Building forms with Tag Helpers 9 Creating a Web API for mobile and client applications using MVC PART 2 - BUILDING COMPLETE APPLICATIONS 10 Service configuration with dependency injection 11 Configuring an ASP.NET Core application 12 Saving data with Entity Framework Core 13 The MVC and Razor Pages filter pipeline 14 Authentication: Adding users to your application with Identity 15 Authorization: Securing your application 16 Publishing and deploying your application PART 3 - EXTENDING YOUR APPLICATIONS 17 Monitoring and troubleshooting errors with logging 18 Improving your application's security 19 Building custom components 20 Building custom MVC and Razor Pages components 21 Calling remote APIs with IHttpConnectionFactory 22 Building background tasks and services 23 Testing your application

In the Complete Guide .NET Performance and Optimization, Paul Glavich and Chris Farrell offer a comprehensive and essential handbook to anybody looking to set up a .NET testing environment and get the best results out of it, or just learn effective techniques for testing and optimizing their .NET applications.

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