

custom net software development

custom net software development is a specialized area within the software engineering domain focused on designing, building, and deploying tailored applications using the .NET framework. This approach enables businesses to create software solutions that precisely meet their unique operational requirements, enhancing efficiency and competitiveness. Leveraging the power of Microsoft's .NET platform, developers can utilize a wide range of tools and libraries to construct scalable, secure, and high-performance applications. This article delves into the importance of custom .NET software development, its core components, and the benefits it offers to enterprises across various industries. Additionally, it explores best practices, common challenges, and the future outlook for .NET custom solutions. Understanding these aspects is essential for organizations considering custom software projects to maximize return on investment and streamline workflows.

- Understanding Custom .NET Software Development
- Key Benefits of Custom .NET Software Development
- Core Technologies and Tools in .NET Development
- Common Applications of Custom .NET Software
- Best Practices for Successful .NET Software Projects
- Challenges in Custom .NET Software Development
- Future Trends in .NET Software Development

Understanding Custom .NET Software Development

Custom .NET software development refers to the process of creating bespoke software applications using the Microsoft .NET framework tailored specifically to an organization's needs. Unlike off-the-shelf solutions, custom software is built from the ground up, allowing precise alignment with business processes and objectives. The .NET framework supports multiple programming languages such as C#, VB.NET, and F#, enabling developers to select the most suitable language for project requirements. It also facilitates the development of various types of applications, including web, desktop, mobile, and cloud-based solutions. This adaptability makes custom .NET software development a versatile choice for companies seeking to innovate and improve operational productivity.

What Makes .NET Ideal for Custom Development?

The .NET framework offers several features that make it an ideal platform for custom software projects. It provides a comprehensive base class library, language interoperability, and robust security mechanisms. Its support for cross-platform development through .NET Core and the unified .NET 5/6/7 releases allows applications to run seamlessly on Windows, Linux, and macOS. Additionally, extensive tooling support via Visual Studio and integration with Azure cloud services enhances development efficiency and scalability. These attributes collectively contribute to faster development cycles and reliable software solutions.

Key Benefits of Custom .NET Software Development

Organizations opting for custom .NET software development enjoy numerous advantages that off-the-shelf solutions cannot offer. Tailored applications improve operational workflows, reduce manual intervention, and provide a competitive edge through unique functionality.

Enhanced Flexibility and Scalability

Custom .NET software can be designed to scale with business growth, accommodating increasing user demands and integrating new features over time. This flexibility ensures longevity and adaptability of the software solution.

Improved Security and Compliance

Developing custom software on the .NET platform allows for implementation of advanced security protocols tailored to specific regulatory requirements, reducing risks related to data breaches and ensuring compliance.

Cost Efficiency Over Time

Although initial investment might be higher compared to generic software, custom .NET applications reduce long-term expenses by minimizing licensing fees, reducing the need for workarounds, and lowering maintenance costs.

Integration with Existing Systems

Custom .NET development facilitates seamless integration with legacy systems and third-party services, enabling streamlined data flow and unified business operations.

- Tailored functionality specific to business needs

- Optimized performance and user experience
- Ownership and control over software updates
- Access to dedicated technical support and maintenance

Core Technologies and Tools in .NET Development

Custom .NET software development leverages a rich ecosystem of technologies and development tools designed to enhance productivity and software quality.

.NET Framework vs. .NET Core vs. .NET 5/6/7

The traditional .NET Framework is primarily Windows-based and suited for desktop and server applications. In contrast, .NET Core introduced cross-platform capabilities, and the subsequent unified platform (.NET 5 and later) combines the best features for building versatile applications across platforms.

Programming Languages

C# is the predominant language used in .NET development due to its robustness, versatility, and extensive community support. Other supported languages include VB.NET and F#, each serving specific developer preferences and project requirements.

Development Tools

Visual Studio remains the most popular integrated development environment (IDE) for .NET projects, offering powerful debugging, code completion, and testing features. Additionally, tools like Rider and Visual Studio Code provide alternatives for various developer workflows.

Supporting Libraries and Frameworks

.NET developers utilize libraries such as Entity Framework for data access, ASP.NET for web applications, and Xamarin for mobile development. These frameworks accelerate development and ensure adherence to best practices.

Common Applications of Custom .NET Software

Custom .NET software development caters to a broad range of application types across industries, addressing distinct business challenges with tailored solutions.

Enterprise Resource Planning (ERP) Systems

Many organizations implement custom ERP solutions built on .NET to unify core business processes like inventory, finance, and human resources into a single platform.

Customer Relationship Management (CRM) Software

Custom CRM applications enable businesses to manage customer data, track interactions, and automate marketing campaigns with precise customization to industry-specific needs.

Web and Mobile Applications

Using ASP.NET and Xamarin, developers create responsive web portals and mobile apps that provide seamless user experiences across devices.

Cloud-Based Solutions

.NET integrates effectively with cloud platforms such as Microsoft Azure, allowing businesses to deploy scalable and secure cloud-native applications tailored to their operational requirements.

Best Practices for Successful .NET Software Projects

Adhering to best practices during custom .NET software development ensures project success, optimal performance, and maintainability.

Requirement Analysis and Planning

Comprehensive requirement gathering and clear project scope definition are vital to aligning software capabilities with business goals.

Agile Development Methodologies

Implementing Agile practices encourages iterative development, frequent testing, and adaptability to changing requirements.

Code Quality and Testing

Maintaining high code standards through code reviews, automated testing, and continuous integration reduces defects and enhances software reliability.

Documentation and Knowledge Transfer

Thorough documentation facilitates future maintenance and onboarding of new developers, ensuring project longevity.

1. Define clear objectives and success criteria
2. Choose the appropriate .NET technology stack
3. Implement robust security measures from the outset
4. Engage stakeholders throughout development
5. Plan for scalability and future enhancements

Challenges in Custom .NET Software Development

Despite its advantages, custom .NET software development presents certain challenges that organizations must address to ensure project success.

Complexity in Requirement Changes

Dynamic business environments often lead to evolving requirements, which may complicate development timelines and budgets if not managed properly.

Resource and Skill Availability

The demand for skilled .NET developers can impact project staffing, affecting delivery schedules and quality.

Integration with Legacy Systems

Ensuring compatibility and smooth data exchange between new custom software and existing legacy systems can require significant effort and expertise.

Maintaining Security Standards

Protecting sensitive data and adhering to industry regulations requires continuous vigilance and implementation of best security practices.

Future Trends in .NET Software Development

The .NET ecosystem continues to evolve, introducing new capabilities and paradigms that shape the future of custom software development.

Emphasis on Cross-Platform Development

With the maturation of .NET 6 and beyond, building applications that run across multiple operating systems remains a core focus, broadening deployment options.

Cloud-Native and Microservices Architectures

Developers increasingly adopt cloud-native designs and microservices patterns to enhance scalability, resilience, and continuous delivery.

AI and Machine Learning Integration

The integration of AI and machine learning capabilities into .NET applications allows businesses to leverage data-driven insights and automation.

Improved Developer Productivity

Advancements in development tools, including AI-assisted coding and enhanced debugging, will streamline the creation and maintenance of custom .NET software.

Frequently Asked Questions

What is custom net software development?

Custom net software development refers to the process of designing, creating, and deploying software applications specifically tailored to meet the unique requirements of an organization using .NET technologies.

What are the benefits of custom net software development for businesses?

Custom net software development offers benefits such as scalability, flexibility, enhanced security, seamless integration with existing systems, and the ability to create solutions that precisely address business needs.

Which .NET technologies are commonly used in custom software development?

Common .NET technologies used in custom software development include ASP.NET Core, Entity Framework, Blazor, Xamarin, and Azure services for cloud integration.

How does custom net software development improve business efficiency?

By providing tailored solutions that automate processes, integrate disparate systems, and offer user-friendly interfaces, custom net software development streamlines operations, reduces manual errors, and enhances overall business productivity.

What are the key considerations when choosing a custom net software development company?

Key considerations include the company's expertise in .NET technologies, experience with similar projects, understanding of business requirements, post-development support, and adherence to best security practices.

Additional Resources

1. Mastering Custom .NET Software Development

This book offers an in-depth guide to building tailored .NET applications that meet unique business requirements. It covers essential topics such as architecture design, coding best practices, and integration with third-party services. Readers will learn how to optimize performance and maintain scalability in custom .NET projects.

2. Advanced .NET Framework for Custom Solutions

Focused on advanced features of the .NET Framework, this book helps developers create sophisticated and efficient custom software. It explores topics like asynchronous programming, dependency injection, and security enhancements. The practical examples and case studies make it a valuable resource for experienced .NET developers.

3. Building Scalable Custom Applications with .NET Core

This title guides readers through the process of creating high-performance, scalable applications using .NET Core. It emphasizes cross-platform development, microservices architecture, and cloud deployment strategies. Readers will gain insights into leveraging the latest .NET Core tools for custom software development.

4. Design Patterns for Custom .NET Software Development

A comprehensive resource on implementing design patterns in custom .NET applications, this book helps improve code maintainability and flexibility. It covers classic patterns such as Singleton, Factory, and Observer with .NET-specific examples. Developers will learn how to apply these patterns to solve common design challenges effectively.

5. Customizing Enterprise Applications with .NET

This book focuses on extending and customizing enterprise-level applications using the

.NET platform. It includes practical advice on integrating with ERP, CRM systems, and other enterprise software. Readers will discover methods for enhancing functionality while ensuring security and compliance.

6. Hands-On Guide to .NET API Development

Ideal for developers looking to build custom APIs with .NET, this guide covers RESTful service creation, authentication, and versioning. It explains how to design robust APIs that can be easily consumed by various clients and integrated into larger systems. The book also discusses testing and documentation best practices.

7. Optimizing Performance in Custom .NET Applications

This book addresses techniques to analyze and improve the performance of custom .NET software. Topics include memory management, code profiling, and database optimization. By following the strategies presented, developers can ensure their applications run efficiently and handle increased loads.

8. Secure Coding Practices for Custom .NET Development

Security is a critical aspect of custom software, and this book emphasizes secure coding methodologies within the .NET environment. It covers common vulnerabilities, threat modeling, and defensive programming techniques. Developers will learn how to protect applications from attacks and safeguard user data.

9. Modern UI Development for Custom .NET Applications

Focusing on user interface design, this book explores building modern, responsive UIs with technologies like WPF, UWP, and Blazor. It guides developers through creating engaging and accessible interfaces that enhance user experience. The book also discusses integration with backend services to deliver seamless functionality.

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custom net software development: Developing .NET Custom Controls and Designers Using Visual Basic .NET James Henry, 2005 Developing .NET Custom Controls and Designers Using Visual Basic .NET is a bible for experienced developers who have a basic understanding of Visual Basic and the .NET framework, and who are ready to move to the next level of .NET programming, creating custom controls and designers. Its purpose is to provide intermediate to senior-level developers the information they need to successfully implement custom controls and designers for both Windows Forms and ASP.NET.

custom net software development: Developing .NET Custom Controls and Designers Using C# James Henry, 2005 Developing .NET Custom Controls and Designers Using C# starts with an introduction to basic, but important, prerequisites, including data binding and event handling. It then goes into type conversion and editor implementation topics. The book discusses both Windows Forms and ASP.NET Web Forms, their basic architectures, and how to go about

writing custom controls and designers to support these technologies.

custom net software development: *Programming .NET Components* Juval Lowy, 2005-07-27 'Programming .NET Components', second edition, updated to cover .NET 2.0., introduces the Microsoft .NET Framework for building components on Windows platforms. From its many lessons, tips, and guidelines, readers will learn how to use the .NET Framework to program reusable, maintainable, and robust components.

custom net software development: *The Art of Software Development with ASP.NET* Pasquale De Marco, 2025-03-19 Embrace the world of ASP.NET, a transformative web development framework that empowers you to create dynamic, data-driven web applications with ease. This comprehensive guide, meticulously crafted for both aspiring and experienced developers, unveils the secrets of ASP.NET, propelling you to the forefront of web development. Delve into the core concepts of ASP.NET, gaining a comprehensive understanding of its architecture, state management techniques, and data access methods. Master the art of crafting interactive web forms, utilizing a rich arsenal of server controls to enhance user experience and application functionality. Explore the realm of ASP.NET data access, learning how to seamlessly connect to various data sources, perform CRUD operations with finesse, and implement efficient data binding techniques. Enrich your applications with the power of AJAX and web services, enabling real-time communication and asynchronous programming paradigms. Delve into the intricacies of ASP.NET security, implementing robust authentication and authorization mechanisms to safeguard your applications from vulnerabilities and cyber threats. Optimize the performance of your ASP.NET applications, employing caching techniques, optimizing database queries, and leveraging load balancing strategies to ensure scalability and responsiveness. Discover the latest advancements in ASP.NET, including the introduction of ASP.NET Core and its focus on cloud-based development. Explore the possibilities of building Single-Page Applications (SPAs) and utilizing ASP.NET SignalR for real-time communication, pushing the boundaries of web development. With this comprehensive guide as your trusted mentor, you'll master the art of ASP.NET development, creating dynamic, data-driven web applications that captivate users and drive business success. Embark on this journey of discovery, transforming your web development skills and unlocking the full potential of ASP.NET. If you like this book, write a review!

custom net software development: Programming ASP.NET Jesse Liberty, Dan Hurwitz, 2005-10-26 O'Reilly has once again updated its bestselling tutorial on ASP.NET, the world's leading web development tool from Microsoft. In *Programming ASP.NET, Third Edition*, authors Jesse Liberty and Dan Hurwitz give you the lowdown on the technology's latest version, ASP.NET 2.0, as well as Visual Studio 2005. Among the most significant improvements to ASP.NET 2.0 are new server controls and services that make you dramatically more productive. In fact, when compared to its predecessor, ASP.NET 2.0 reduces the amount of code you have to write by about 75%. Creating interactive web applications has never been easier-but that still doesn't mean it's hassle-free! The difficulty in ASP.NET 2.0 is that it's so complete and flexible that there are many pieces that must be woven together to build a robust, scalable, and efficient application. Fortunately, *Programming ASP.NET, Third Edition* is on the case, dispensing all the information you need to be effective with this dynamic tool. For starters, the book features a comprehensive tutorial on Web Forms, the user interface that gives web applications their look and feel. It then offers detailed explanations of all new controls, including web server controls, HTML controls, and custom controls. Used properly, these controls are able to take care of nearly all the foundation work-security, data access, layout, etc.-that you would normally have to write yourself. Free of these burdensome tasks, you can instead focus on your specific application. Other new material found in this updated edition even shows you how to create ASP.NET 2.0 pages for mobile devices. With *Programming ASP.NET, Third Edition* at your side, there's virtually no end to the programming possibilities.

custom net software development: Expert .NET 1.1 Programming Simon Robinson, 2004-09-27 This is a book about getting the best out of .NET. It's based on the philosophy that the best approach to writing good, high-performance, robust applications that take full advantage of the

features of .NET is to understand what's going on deep under the hood. If you are already experienced with writing managed applications and want to learn more about how to get the best from the CLR at an advanced level, then this is the book for you. Topics covered include intermediate language, performance, profiling, security, advanced Windows Forms, threading, and systems management using Windows Management Instrumentation (WMI). This book has been reviewed by developers at Microsoft, who have provided invaluable information about the CLR. The information contained in this book, which in many cases goes far beyond the available documentation, will enable you to write better, more robust, more responsive, better performing and, in some cases, more sophisticated applications. Expert .NET Programming originally appeared under the title Advanced .NET. The response from many readers was extremely enthusiastic, prompting us to release a second edition under the new title. This edition has been fully updated for .NET 1.1, and many of the explanations have been revised.

custom net software development: Pro .NET 2.0 Graphics Programming Eric White, 2006-11-02 Whether you are using Windows Forms to build rich-client business applications, or the ASP.NET 2.0 framework to build powerful web applications or web services, the use of well-designed graphics will greatly enhance their usability, impact, and visual appeal. This book provides a comprehensive guide to the use of graphics in .NET applications and aims to provide you with all the information you need to build effective custom controls. The opening section of the book investigates the .NET Framework classes that implement graphics. It covers all of the classes, methods, and techniques needed to create, manipulate, and display precise graphics in a form, a page being sent to a printer, or an image. On this foundation, the second section describes how to design and build effective custom controls for use in a business environment. Topics covered include building composite controls, implementing keyboard navigation, and enhancing design-time support. The final section of the book explores the use of GDI+ and ASP.NET to build custom controls that can provide reusable, GUI components for web projects, and to deliver customized graphics over the Internet.

custom net software development: C# Programming & Software Development Richie Miller, 2023 If you want to discover how to become a software developer using C#, this book is for you! 6 BOOKS IN 1 DEAL! · BOOK 1: C# CODING SYNTAX - C SHARP SOFTWARE DEVELOPMENT FUNDAMENTALS · BOOK 2: C# PROGRAMMING BASICS - WRITE, RUN, AND DEBUG CONSOLE APPLICATIONS · BOOK 3: C# CODING FUNDAMENTALS - CONTROL FLOW STATEMENTS AND EXPRESSIONS · BOOK 4: C# TYPE CLASS FUNDAMENTALS - BUILT-IN DATA TYPES, CLASSES, INTERFACES, AND INHERITANCE · BOOK 5: C# PROGRAMMING - EXPLICIT INTERFACE IMPLEMENTATION · BOOK 6: C# GENERICS - PERFORMANCE AND TYPE SAFETY BUY THIS BOOK NOW AND GET STARTED TODAY!

custom net software development: Beyond Boundaries: Mastering Modern Application Development with Visual Studio .NET Pasquale De Marco, 2025-04-12 In the ever-evolving landscape of software development, Beyond Boundaries: Mastering Modern Application Development with Visual Studio .NET emerges as an indispensable guide for aspiring developers and seasoned professionals alike. This comprehensive volume provides a transformative journey through the intricacies of Visual Studio .NET, empowering readers to craft sophisticated applications that transcend boundaries and redefine possibilities. Delve into the depths of Visual Studio's interface, unveiling the secrets of its powerful tools and features. Discover the elegance of C# and the .NET Framework, unlocking the potential for building robust and scalable applications. Explore the intricacies of project structures and solutions, gaining mastery over the organizational aspects of software development. Embark on an exploration of application architecture principles, laying the foundation for robust and maintainable software systems. Deconstruct layered architectures, such as MVC and MVVM, and understand their significance in structuring complex applications. Delve into the realm of service-oriented architecture (SOA) and cloud-based architectures, gaining insights into the latest industry trends. Unravel the complexities of data access and persistence, mastering the art of data manipulation and storage. Establish seamless

database connectivity with ADO.NET and discover the power of Entity Framework, an object-relational mapping (ORM) tool that simplifies data access. Explore the nuances of SQL Server, MySQL, and NoSQL databases, gaining a comprehensive understanding of data management options. Transform abstract concepts into visually stunning and intuitive user interfaces. Craft engaging user experiences with Windows Forms and unleash the potential of WPF and XAML, unlocking the secrets of modern UI design principles. Implement responsive layouts and adaptive design, ensuring seamless application functionality across diverse devices and screen sizes. Enhance user interaction with animations and effects, adding a touch of dynamism to your software creations. Secure your applications and data against the ever-present threats of the digital landscape. Implement robust authentication and authorization mechanisms, safeguarding sensitive information from unauthorized access. Employ encryption and cryptography techniques to protect data in transit and at rest. Understand secure coding practices and vulnerabilities, mitigating risks and ensuring the integrity of your applications. Extend the capabilities of your applications with a vast array of controls, unlocking a world of possibilities for enhancing functionality. Integrate custom controls to address specialized requirements and leverage third-party controls for advanced features. Create user-defined controls for reusability and harness the power of drag-and-drop functionality for effortless UI development. Master the art of deploying and maintaining applications, ensuring seamless operation in real-world scenarios. Prepare applications for deployment, exploring various strategies to effectively distribute software to users. Implement ClickOnce deployment for simplified distribution and automate application updates and maintenance, ensuring continuous availability and reliability. Monitor and troubleshoot deployed applications, proactively addressing issues and maintaining optimal performance. Join the ranks of skilled developers who embrace continuous learning and professional development. Explore advanced .NET concepts and design patterns, pushing the boundaries of software engineering. Stay abreast of the latest trends and innovations in software development, adapting to the ever-changing landscape of technology. Engage with communities and forums, sharing knowledge and gaining insights from fellow developers. Prepare for Microsoft certifications and industry recognition, demonstrating your expertise and commitment to excellence. With *Beyond Boundaries: Mastering Modern Application Development with Visual Studio .NET*, you hold the key to unlocking your full potential as a software developer. Embark on this transformative journey and transcend the boundaries of your current knowledge, reaching new heights of proficiency in application development. If you like this book, write a review on google books!

custom net software development: Using Aspect-Oriented Programming for Trustworthy Software Development Vladimir O. Safonov, 2008-06-09 Learn how to successfully implement trustworthy computing tasks using aspect-oriented programming This landmark publication fills a gap in the literature by not only describing the basic concepts of trustworthy computing (TWC) and aspect-oriented programming (AOP), but also exploring their critical interrelationships. The author clearly demonstrates how typical TWC tasks such as security checks, in-and-out conditions, and multi-threaded safety can be implemented using AOP. Following an introduction, the book covers: Trustworthy computing, software engineering, and computer science Aspect-oriented programming and Aspect.NET Principles and case studies that apply AOP to TWC Coverage includes Aspect.NET, the AOP framework developed by the author for the Microsoft.NET platform, currently used in seventeen countries. The author discusses the basics of Aspect.NET architecture, its advantages compared to other AOP tools, and its functionality. The book has extensive practical examples and case studies of trustworthy software design and code using the Aspect.NET framework. In addition, the book explores other software technologies and tools for using AOP for trustworthy software development, including Java and AspectJ. This book also includes a valuable chapter dedicated to ERATO, the author's teaching method employed in this book, which has enabled thousands of students to quickly grasp and apply complex concepts in computing and software engineering, while the final chapter presents an overall perspective on the current state of AOP and TWC with a view toward the future. Software engineers, architects,

developers, programmers, and students should all turn to this book to learn this tested and proven method to create more secure, private, and reliable computing.

custom net software development: 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!

custom net software development: .NET Design Patterns Praseed Pai, Shine Xavier, 2017-01-31 Explore the world of .NET design patterns and bring the benefits that the right patterns can offer to your toolkit today About This Book Dive into the powerful fundamentals of .NET framework for software development The code is explained piece by piece and the application of the pattern is also showcased. This fast-paced guide shows you how to implement the patterns into your existing applications Who This Book Is For This book is for those with familiarity with .NET development who would like to take their skills to the next level and be in the driver's seat when it comes to modern development techniques. Basic object-oriented C# programming experience and an elementary familiarity with the .NET framework library is required. What You Will Learn Put patterns and pattern catalogs into the right perspective Apply patterns for software development under C#/.NET Use GoF and other patterns in real-life development scenarios Be able to enrich your design vocabulary and well articulate your design thoughts Leverage object/functional programming by mixing OOP and FP Understand the reactive programming model using Rx and RxJs Writing compositional code using C# LINQ constructs Be able to implement concurrent/parallel programming techniques using idioms under .NET Avoiding pitfalls when creating compositional, readable, and maintainable code using imperative, functional, and reactive code. In Detail Knowing about design patterns enables developers to improve their code base, promoting code reuse and making their design more robust. This book focuses on the practical aspects of programming in .NET. You will learn about some of the relevant design patterns (and their application) that are most widely used. We start with classic object-oriented programming (OOP) techniques, evaluate parallel programming and concurrency models, enhance implementations by mixing OOP and functional programming, and finally to the reactive programming model where functional programming and OOP are used in synergy to write better code. Throughout this book, we'll show you how to deal with architecture/design techniques, GoF patterns, relevant patterns from other catalogs, functional programming, and reactive programming techniques. After reading this book, you will be able to

convincingly leverage these design patterns (factory pattern, builder pattern, prototype pattern, adapter pattern, facade pattern, decorator pattern, observer pattern and so on) for your programs. You will also be able to write fluid functional code in .NET that would leverage concurrency and parallelism! Style and approach This tutorial-based book takes a step-by-step approach. It covers the major patterns and explains them in a detailed manner along with code examples.

custom net software development: NET Windows Forms Custom Controls Richard Weeks, 2002 The intent of this book is to teach .NET developers the skills necessary to create their own leading-edge custom controls. The art of creating custom controls has never been truly explored in detail, this book will not only provide that knowledge, but, in addition provide the source for a fully functional outlook bar control.

custom net software development: SharePoint 2013 Field Guide Errin O'Connor, 2014-05-27 Covers SharePoint 2013, Office 365's SharePoint Online, and Other Office 365 Components In SharePoint 2013 Field Guide, top consultant Errin O'Connor and the team from EPC Group bring together best practices and proven strategies drawn from hundreds of successful SharePoint and Office 365 engagements. Reflecting this unsurpassed experience, they guide you through deployments of every type, including the latest considerations around private, public, and hybrid cloud implementations, from ECM to business intelligence (BI), as well as custom development and identity management. O'Connor reveals how world-class consultants approach, plan, implement, and deploy SharePoint 2013 and Office 365's SharePoint Online to maximize both short- and long-term value. He covers every phase and element of the process, including initial "whiteboarding"; consideration around the existing infrastructure; IT roadmaps and the information architecture (IA); and planning for security and compliance in the new IT landscape of the hybrid cloud. SharePoint 2013 Field Guide will be invaluable for implementation team members ranging from solution architects to support professionals, CIOs to end-users. It's like having a team of senior-level SharePoint and Office 365 hybrid architecture consultants by your side, helping you optimize your success from start to finish! Detailed Information on How to... Develop a 24-36 month roadmap reflecting initial requirements, longterm strategies, and key unknowns for organizations from 100 users to 100,000 users Establish governance that reduces risk and increases value, covering the system as well as information architecture components, security, compliance, OneDrive, SharePoint 2013, Office 365, SharePoint Online, Microsoft Azure, Amazon Web Services, and identity management Address unique considerations of large, global, and/or multilingual enterprises Plan for the hybrid cloud (private, public, hybrid, SaaS, PaaS, IaaS) Integrate SharePoint with external data sources: from Oracle and SQL Server to HR, ERP, or document management for business intelligence initiatives Optimize performance across multiple data centers or locations including US and EU compliance and regulatory considerations (PHI, PII, HIPAA, Safe Harbor, etc.) Plan for disaster recovery, business continuity, data replication, and archiving Enforce security via identity management and authentication Safely support mobile devices and apps, including BYOD Implement true records management (ECM/RM) to support legal/compliance requirements Efficiently build custom applications, workflows, apps and web parts Leverage Microsoft Azure or Amazon Web Services (AWS)

custom net software development: Professional SharePoint 2007 Development John Holliday, John Alexander, 2007-06-12 Beginning with an introduction to the technologies in Microsoft's application platform, this guide goes on to highlight the technologies in SharePoint 2007 which are new for developers.

custom net software development: Pro SQL Server 2005 Reporting Services Walter Voytek, Rodney Landrum, 2006-11-10 SQL Server Reporting Services (SSRS) 2005 is the latest version of the reporting technology from Microsoft. This book examines all of the technology that SSRS provides to design, author, render and deploy professional business reports to the Web or to the company intranet (in a variety of formats, from HTML to XML, PDF, or TIFF), with detailed examples at every step. It covers all of the new functionality present in the 2005 version, including the new management and business intelligence development studios, as well as the new report viewer

controls and end-user reporting tools. It also contains significantly expanded chapters on business intelligence, along with a wealth of tips and workarounds for effective development with SSRS. The authors are both highly experienced with SQL Server and with business reporting in the medical industry, which is subject to rigorous HIPAA regulations and strict security. It is not their intention to evangelize the product or present idealized examples based on the simple built-in schemas. Instead, they take a hard, critical look at the technology and provide exactly what the reader needs to know to deliver effective reports. Their code examples are based on real, complex schemas and the need to deliver versatile, dynamic reports, as well as on strict security and performance requirements. In summary, this book will provide you with step-by-step guides, best practices, and real code examples covering all of the common Reporting Services tasks, including: A detailed overview of the reporting architecture and tools The new Report Definition Language Standard, which is XML-based and allows you to define reports in VS.NET Building effective queries for high-performance reporting Building custom .NET applications with SSRS Rendering reports to HTML, XML, PDF and Excel Deploying secure reports, using Windows authentication through ActiveDirectory Business Intelligence reporting using SQL Server Analysis Services

custom net software development: Effective GUI Testing Automation Kanglin Li, Mengqi Wu, 2006-07-14 Have you tried using an automated GUI testing tool, only to find that you spent most of your time configuring, adjusting, and directing it? This book presents a sensible and highly effective alternative: it teaches you to build and use your own truly automated tool. The procedure you'll learn is suitable for virtually any development environment, and the tool allows you to store your test data and verification standard separately, so you can build it once and use it for other GUIs. Most, if not all, of your work can be done without test scripts, because the tool itself can easily be made to conduct an automatic GUI survey, collect test data, and generate test cases. You'll spend virtually none of your time playing with the tool or application under test. Code-intensive examples support all of the book's instruction, which includes these key topics: Building a C# API text viewer Building a test monkey Developing an XML viewer using XPath and other XML-related classes Building complex, serializable classes for GUI test verification Automatically testing executable GUI applications and user-defined GUI controls Testing managed (.NET) and unmanaged GUI applications Automatically testing different GUI controls, including Label, TextBox, Button, CheckBox, RadioButton, Menu Verifying test results Effective GUI Test Automation is the perfect complement to Li and Wu's previous book, Effective Software Test Automation: Developing an Automated Software Testing Tool. Together, they provide programmers, testers, designers, and managers with a complete and cohesive way to create a smoother, swifter development process—and, as a result, software that is as bug-free as possible.

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custom net software development: Crystal Reports .NET Programming Brian Bischof, 2004 I wrote this book from the perspective of a programmer wanting to learn how to integrate reports within a .NET application. I've been working with Crystal Reports since Visual Basic 3 and it's always been difficult to find technical information on report writing. I spent a year and a half researching what .NET programmers need to successfully create, implement and deploy a Crystal Reports application. I even put the book on the internet for everyone to read for free all of last year. This generated an incredible number of emails from programmers telling me what they liked, disliked, and what was missing from the book. I learned that there are two distinct types of .NET programmers using Crystal Reports. The first type of programmer doesn't have much experience with Crystal Reports and wants a series of tutorials to help them build reports from scratch. For this programmer I wrote 13 chapters which teach you everything about adding reports to ASP.NET and Windows applications. It starts with the basics of building reports to adding charts, crosstab reports,

sorting and grouping, subreports and using the formula editor with Basic syntax and Crystal syntax. The second type of programmer has been using Crystal Reports for years and is mostly concerned with how to do technical runtime customization of reports. For this programmer I researched and diagrammed the undocumented report object models. I included dozens of examples in both VB.NET and C# to show you how to modify reports, manipulate different data sources (XML, ADO.NET, ODBC, OLE DB, stored procedures with parameters), modify formulas and report parameters, and integrate .NET with the RAS and RDC. The dozens of emails I received when the book was online were instrumental for doing a major revision of many chapters before publishing the book in hardcopy format. Since releasing the book I continue to receive more emails from people. They regret that the free book isn't online anymore, but understand that it couldn't last forever and that the hardcopy version is even better. I hope you like it and that it helps you achieve your reporting goals. September 2004 Update: Due to high demand, I did a second printing of the book. I took advantage of this opportunity to go through the book and remove all grammatical errors. The content is the same, but the typos have been corrected.

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