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Visual Studio Team System Better Software Development for Agile Teams

Pearson Education Visual Studio Team System (VSTS) gives Microsoft development teams a powerful, integrated toolset for Agile development. Visual Studio Team System: Better Software Development for Agile Teams is a comprehensive, start-to-finish guide to making the most of VSTS in real-world Agile environments. Using a book-length case study, the authors show how to use VSTS to improve every aspect of software development, step by step—from project planning through design and from coding through testing and deployment. Agile consultant Will Stott and Microsoft development lead James Newkirk carefully integrate theory and practice, offering hands-on exercises, practical insights into core Extreme

Programming (XP) techniques, and much more. Coverage includes Using VSTS to support the transition to Agile values and techniques Forming Agile teams and building effective process frameworks Leveraging Team Foundation Version Control to help teams manage change and share their code effectively Implementing incremental builds and integration with Team Foundation Build Making the most of VSTS tools for Test-Driven Development and refactoring Bringing agility into software modeling and using patterns to model solutions more effectively Using the FIT integrated testing framework to make sure customers are getting what they need Estimating, prioritizing, and planning Agile projects

Software Engineering with Microsoft Visual Studio Team System

Pearson Education Software Engineering with Microsoft Visual Studio Team System is written for any software team that is considering running a software project using Visual Studio Team System (VSTS), or evaluating modern software development practices for its use. It is about the value-up paradigm of software development, which forms the basis of VSTS: its guiding ideas, why they are presented in certain ways, and how they fit into the process of managing the software lifecycle. This book is the next best thing to having an onsite coach who can lead the team through a consistent set of processes. Sam Guckenheimer has been the chief customer advocate for VSTS, responsible for its end-to-end external design. He has written this book as a framework for thinking about software projects in a way that can be directly tooled by VSTS. It presents essential theory and practical examples to describe a realistic process for IT projects. Readers will learn what they need to know to get started with VSTS, including The role of the value-up paradigm (versus work-down) in the software development lifecycle, and the meanings and importance of “flow” The use of MSF for Agile Software Development and MSF for CMMI Process Improvement Work items for planning and managing backlog in VSTS Multidimensional, daily metrics to maintain project flow and enable estimation Creating requirements using personas and scenarios Project management with iterations, trustworthy transparency, and friction-free metrics Architectural design using a value-up view, service-oriented architecture, constraints, and qualities of service Development with unit tests, code coverage, profiling, and build automation Testing for customer value with scenarios, qualities of service, configurations, data, exploration, and metrics Effective bug reporting and bug assessment Troubleshooting a project: recognizing and correcting common pitfalls and antipatterns This is a book that any team using or considering VSTS should read.

Visual Studio Team Foundation Server 2012

Adopting Agile Software Practices: From Backlog to Continuous Feedback

Addison-Wesley Use Visual Studio® Team Foundation Server 2012 and Agile Methods to Deliver Higher Value Software Faster This is the definitive guide to applying agile development and modern software engineering practices with Visual Studio Team Foundation Server 2012—Microsoft’s complementary Application Lifecycle Management (ALM) platform. Written by the Microsoft Visual Studio product owner and a long-time Team Foundation Server implementation specialist, it focuses on solving real development challenges, systematically eliminating waste, improving transparency, and delivering better software more quickly and painlessly. Coverage includes • Accelerating the “flow of value” to customers, with a transparent backlog, PowerPoint Storyboarding, VS 2012 feedback requests, and a “usability lab” right into your customers’ hands • Driving quality upstream to uncover hidden architectural patterns, ensure cleaner code, fix multiple recurring “cloned” bugs at once, ensure the definition of done with continuous integration and deployment in a reliable build process • Eliminating “no repro” bugs with VS 2012’s six powerful mechanisms for more accurate fault identification and use of virtualized test environments • Using Scrum or other Agile methods with Process Templates effectively across distributed teams in large organization by automating burndowns and dashboards to identify “early warning signals” of emerging problems with quality or maintainability • Staying in the groove by storing the state of your work and environment with shelvesets, to let you handle interruptions smoothly • Leveraging VS 2012’s new support for multiple Microsoft and open source unit testing frameworks in your IDE and continuous integration pipeline • Performing exploratory testing to uncover bugs in surprising places and testing immersive Windows 8 apps • Rapidly improving team development and collaboration with the hosted Team Foundation Service Whatever your development role, this book will help you apply modern software development practices using Visual Studio Team Foundation Server 2012 to focus on what really matters: building software that begins delivering exceptional value sooner and keeps delighting customers far into the future.

Agile Software Engineering with Visual Studio

From Concept to Continuous Feedback

Addison-Wesley Professional The #1 guide to using Visual Studio 2010 in team development: insider coverage of this huge release, from the leader of the VSTS team * *Focuses on succeeding with new VS 2010 ALM products in real-world environments, with exclusive 'Lessons Learned at Microsoft'. *Thoroughly covers VS 2010's massive new capabilities for team development. *Contains extensive new coverage of implementing Scrum and related practices. *Covers the entire lifecycle: requirements, architecture, construction, build, test, and more This is the most practical, valuable guide for every member of the software team who intends to run or participate in software projects using Microsoft's Visual Studio 2010. Written by a top Microsoft Visual Studio development team leader and a leading Visual Studio implementation consultant, it focuses on the real challenges development organizations face. The authors identify powerful lessons and best practices learned at Microsoft, and cover the entire development lifecycle, from requirements gathering through testing and beyond. This edition adds extensive coverage of VS 2010's extensive new team features, as well as new coverage of using VS 2010 to actively support teams that practice Scrum. Throughout, the authors focus on showing how to use VS 2010 to reduce waste, increase transparency, and accelerate the flow of value to the end customer. Coverage includes: *

- *Requirements: vision, user stories, use cases, storyboards, satisfiers/dissatisfiers, and more**
- *Running the project: self-managing teams, metrics, sprints, and dashboards**
- *'Value-up' views of software architecture, construction, and testing.**
- *Build and lab: check-in, team build, continuous integration, build verification tests, reporting, deployment, and lab automation/virtualization.**
- *Troubleshooting the project: overcoming issues ranging from scope creep to build failures**

Professional Visual Studio 2005 Team System

John Wiley & Sons A team of Microsoft insiders shows programmers how to use Visual Studio 2005 Team System, the new suite of products from Microsoft that can be used for software modeling, design, testing, and

deployment Focuses on practical application of the tools on code samples, development scenarios, and automation scripting This timely book serves as both as a step-by-step guide and as a reference for modeling, designing, and coordinating enterprise solutions at every level using Team System The book begins with an overview of Team System and then offers nuts-and-bolts guidance on practical implementation Code examples are provided in both VB.NET and C#

Pro Visual Studio 2005 Team System Application Development

Apress Visual Studio 2005 Team System is a large and complex product, and is arguably the most sophisticated development environment that Microsoft has ever built. It has enormous potential to improve people's working lives by allowing them to draw together disparate tasks within a single reporting and testing structure. In order to do this people need a guide, and this book provides that guidance. It walks readers through a fictional scenario containing all the problems that Team System was built to remedy and shows how the product can be best applied to solve the problems of architects, developers, testers and project managers alike.

Professional Software Testing with Visual Studio 2005 Team System

Tools for Software Developers and Test Engineers

John Wiley & Sons Visual Studio 2005 Team System (VSTS) features a robust, integrated suite of test tools that work seamlessly in the Visual Studio development environment Covering all phases of the development lifecycle, this book shows readers how to implement best practices for software testing using the appropriate components of VSTS Readers will learn how to use the tools effectively, directly from those who helped design and develop the software Shows how to catch common programming mistakes every time code is compiled, helping to shorten the time to market

Professional Application Lifecycle

Management with Visual Studio 2010

John Wiley & Sons Get up to speed on Application Lifecycle Management (ALM) with Visual Studio 2010 through a combination of hands-on instruction and deep-dives. Microsoft has packed a lot of brand new testing and modeling tools into Visual Studio 2010, tools that previously were available only to Microsoft internal development teams. Developers will appreciate the focus on practical implementation techniques and best practices. A team of Microsoft insiders provides a nuts-and-bolts approach. This Wrox guide is designed as both a step-by-step guide and a reference for modeling, designing, and coordinating software development solutions at every level using Visual Studio 2010 and Visual Studio Team Foundation Server 2010. Visual Studio 2010 offers a complete lifecycle management system that covers modeling, testing, code analysis, collaboration, build and deployment tools.

Software Testing with Visual Studio 2010

Pearson Education Use Visual Studio 2010's Breakthrough Testing Tools to Improve Quality Throughout the Entire Software Lifecycle Together, Visual Studio 2010 Ultimate, Visual Studio Test Professional 2010, Lab Management 2010, and Team Foundation Server offer Microsoft developers the most sophisticated, well-integrated testing solution they've ever had. Now, Microsoft MVP and VS testing guru Jeff Levinson shows exactly how to use Microsoft's new tools to save time, reduce costs, and improve quality throughout the entire development lifecycle. Jeff demonstrates how Microsoft's new tools can help you finally overcome long-standing communication, coordination, and management challenges. You'll discover how to perform first-rate functional testing; quickly create and execute tests and record the results with log files and video; and create bugs directly from tests, ensuring reproducibility and eliminating wasted time. Levinson offers in-depth coverage of Microsoft's powerful new testing metrics, helping you ensure traceability all the way from requirements through finished software. Coverage includes • Planning your tests using Microsoft Test Manager (MTM) • Creating test settings, structuring test cases, and managing the testing process • Executing manual tests with Microsoft Test Manager and Test Runner • Filing and resolving bugs, and customizing your bug reporting process • Automating test cases and linking automated tests with requirements • Executing automated test cases through both Visual Studio and Microsoft Test Manager • Integrating

automated testing into the build process • Using Microsoft's Lab Management virtualization platform to test applications, snapshot environments, and reproduce bugs • Implementing detailed metrics for evaluating quality and identifying improvements Whether you're a developer, tester, manager, or analyst, this book can help you significantly improve the way you work and the results you deliver—both as an individual right now, and as a team member throughout your entire project.

Professional Team Foundation Server 2012

John Wiley & Sons A comprehensive guide to using Microsoft Team Foundation Server 2012 Team Foundation Server has become the leading Microsoft productivity tool for software management, and this book covers what developers need to know to use it effectively. Fully revised for the new features of TFS 2012, it provides developers and software project managers with step-by-step instructions and even assists those who are studying for the TFS 2012 certification exam. You'll find a broad overview of TFS, thorough coverage of core functions, a look at extensibility options, and more, written by Microsoft insiders and MVPs. An update of the leading Wrox book on Team Foundation Server, written by an expert team of Microsoft insiders and MVPs Provides a broad overview of Team Foundation Server for developers, software project managers, testers, business analysts, and others wanting to learn how to use TFS Offers administrators the necessary tools to efficiently monitor and manage the TFS environment Covers core TFS functions including project management, work item tracking, version control, test case management, build automation, reporting, and how to write extensions for TFS 2012 Professional Team Foundation Server 2012 builds on the proven Wrox Professional formula to give you a solid background in this software management tool.

Professional Team Foundation Server

John Wiley & Sons

Pro Visual Studio Team System with

Team Edition for Database Professionals

Apress Updated to include coverage of the latest 'DBPro' extension for database professionals this book is the only reference needed to get started with Visual Studio 2005 Team System. It will guide you through the entire breadth of VSTS. If you are a stakeholder, you have a portal that gives you instant access to project documents, status, and performance indicators. If you are a project manager, you will learn how create, manage, and assess team performance. If you are a developer, you will learn how to write higher-quality code, and ensure that the code works and performs well.

Pro Visual Studio 2005 Team System

Apress *Will significantly increase developer and manager effectiveness using this complex technology *Authors convey proven track record with the technology *This is among the first (if not the first) VSTS book on the market

Professional Software Testing with Visual Studio 2005 Team System

Tools for Software Developers and Test Engineers

John Wiley & Sons Provides information on using the Visual Studio 2005 software testing and development tools, covering such topics as unit testing, Web testing, load testing, code analysis, and dynamic analysis.

Pro Visual Studio Team System Application Lifecycle Management

Apress You can have the best coders in the world working in your teams, but if your project management isn't up to scratch, your project is almost certain to be delayed, to come in over budget, and in some cases to fail entirely. By taking precise control of your application development

process, you can make changes, both large and small, throughout your project's life cycle that will lead to better-quality finished products that are consistently delivered on time and within budget. Application lifecycle management (ALM) is an area of rapidly growing interest within the development community. Because its techniques allow you to deal with the process of developing applications across many areas of responsibility and across many different disciplines, its effects on your project can be wide ranging and pronounced. It is a project management tool that has practical implications for the whole team—from architects to designers, from developers to testers. This book focuses on the most powerful ALM tool available for the Microsoft .NET Framework: Visual Studio Team System (VSTS). It demonstrates the key concepts and techniques of ALM and illustrates how they can be achieved using the tools VSTS provides in a clear succinct style. After reading the book, you will understand how VSTS can be used to generate continuous meaningful reporting on your project's health for the decision makers on your team as well as for your project's sponsors.

Professional Visual Studio Extensibility

John Wiley & Sons Visual Studio is a development IDE created by Microsoft to enable easier development for Microsoft programming languages as well as development technologies. It has been the most popular IDE for working with Microsoft development products for the past 10 years. Extensibility is a key feature of Visual Studio. There have not been many books written on this aspect of Visual Studio. Visual Studio Extensibility (VSX) can be considered a hard topic to learn for many developers in comparison with most .NET related topics. Also, its APIs are very complex and not very well written. Some may refer to these APIs as dirty because they do not have good structure, naming convention, or consistency. Visual Studio is now 10 years old. It was created during the COM days for COM programming but later migrated to .NET. However, Visual Studio still relies heavily on COM programming. It was revamped when moving to the .NET platform but still contains its COM nature; this fact is what makes it harder for .NET developers to work with VSX. Because it is an older product built on two technologies, it has produced inconsistency in code. Although there are problems with the current version of VSX, the future looks bright for it. The many different teams working on the software have been moved into one umbrella group known as the Visual Studio Ecosystem team. Throughout the past 10 years Visual Studio has continued to grow and new extensibility features have been added. Learning all of the options with their different purposes and implementations is not easy. Many extensibility features are broad topics such as add-ins, macros, and the new domain-specific language tools in Visual Studio. Learning these topics

can be difficult because they are not closely related to general .NET programming topics. This book is for .NET developers who are interested in extending Visual Studio as their development tool. In order to understand the book you must know the following material well: Object-oriented programming (OOP), the .NET Framework and .NET programming, C# or Visual Basic languages, some familiarity with C++, some familiarity with XML and its related topics, and Visual Studio structure and usage. A familiarity with COM programming and different .NET technologies is helpful. The aims of this book are to: Provide an overview of all aspects of VSX Enable readers to know where/when to use extensibility Familiarize readers with VS Extensibility in detail Show readers the first steps and let them learn through their own experiences Use examples, sample code, and case studies to demonstrate things in such a way that helps readers understand the concepts Avoid bothering readers with long discussions and useless code samples In order to use this book, and get the most out of it, there are some technical requirements. You must have the following two packages installed on your machine to be able to read/understand the chapters and test code samples: Visual Studio 2008 Team System Edition (or other commercial editions) Visual Studio 2008 SDK 1.0 (or its newer versions) You will need to buy Visual Studio 2008 to register for an evaluation version. The Free Express editions of Visual Studio do not support the extensibility options. The Visual Studio SDK is needed in order to read some of the chapters in the book and can be downloaded as a free package. The operating system doesn't matter for the content of the book, but all code was written with Visual Studio 2008 Team System Edition in Windows Vista x86. Chapters 1, 2, and 3 will give you an introduction to the basic concepts you need to understand before you can move on to the rest of the book. Chapter 4 discusses the automation model, which is an important prerequisite for many of the chapters in the book that focus on add-ins, macros, and VSPackages. Chapters 5-14 will utilize add-ins in a case study to learn about the main responsibilities of the automation model and some of the more common techniques used in VSX development. Each of the following chapters is dedicated to a specific extensibility option; they are independent of one another and you can read them in any order. It is important to read chapters 4-14 before you begin reading about the specific extensibility options. Chapter 5 contains a walk-through of the Add-in Wizard and describes its steps. Chapter 6 will show you the anatomy of add-ins and explain how to create add-ins and how they work. Chapter 7 discusses how to manipulate solutions, projects, and project items via your code to build add-ins. Chapter 8 shows you how to deal with documents and code editors in your add-ins. Chapter 9 explains how to work with programming codes and how to manipulate their elements. Chapter 10 describes some ways to work with user interface elements, Windows Forms, and controls via code in your add-ins. Chapter 11 discusses the Tools Options page and uses add-ins as the case study to show you how to create your own Tools Options pages. Chapter 12 teaches

you how to debug and test your add-ins. Chapter 13 shows you how to deploy your add-ins. Chapter 14 completes the discussion about add-ins by talk about resources and localization of add-ins. Chapter 15 discusses a new feature in VS 2008: the Visual Studio Shell. Chapter 16 talks about domain-specific language tools; you will learn how to build them and see a quick overview of DSL tools. Chapter 17 discusses debugging and how to extend debugging features. Chapter 18 talks about VSPackages as a way to extend VS functionality and add something new to its existing packages. Chapter 19 teaches you what a code snippet is and how to write and manage code snippets in Visual Studio to make your coding process easier. Chapter 20 talks about VS project templates and starter kits and how to write your own project templates. Chapter 21 focuses on MSBuild and writing custom builds for Visual Studio and .NET applications. Chapter 22 discusses Visual Studio macros in detail and explains how to build a Visual Studio macro. Keyvan Nayyeri is a software architect and developer. He has a Bachelor of Science degree in applied mathematics. His main focus is on Microsoft development technologies and their related markup languages. Nayyeri is also a team leader and developer for several .NET open-source projects; this includes writing code for special purposes. He holds an MVP award for Comunnity Server. He recently co-authored Wrox Professional Community Server (2007).

Professional Scrum with Team Foundation Server 2010

John Wiley & Sons

Professional Visual Studio 2008

John Wiley & Sons Professional Visual Studio 2008 Microsoft Visual Studio 2008 is the latest version in the ongoing evolution of the Integrated Development Environment (IDE), and this resource examines the diverse facets of the IDE—from common tasks to intricate functions to the powerful tools that accompany the main code editing and design windows. Written by a unique author duo and offering an in-depth look at the powerful and fascinating features and techniques of the IDE, this book explores each aspect of the development life cycle from the perspective of how Visual Studio 2008 can make your life easier. Each chapter is packed with examples that illustrate uses for various tools, commands, and shortcuts of Visual Studio 2008. You will gradually learn to identify where a feature is used, conclude how you can use it to its fullest potential, and then seamlessly apply that feature to help solve real-world problems.

Professional Application Lifecycle Management with Visual Studio 2010

John Wiley & Sons Get up to speed on Application Lifecycle Management (ALM) with Visual Studio 2010 through a combination of hands-on instruction and deep-dives. Microsoft has packed a lot of brand new testing and modeling tools into Visual Studio 2010, tools that previously were available only to Microsoft internal development teams. Developers will appreciate the focus on practical implementation techniques and best practices. A team of Microsoft insiders provides a nuts-and-bolts approach. This Wrox guide is designed as both a step-by-step guide and a reference for modeling, designing, and coordinating software development solutions at every level using Visual Studio 2010 and Visual Studio Team Foundation Server 2010. Visual Studio 2010 offers a complete lifecycle management system that covers modeling, testing, code analysis, collaboration, build and deployment tools. Coverage includes: An Introduction to Software Architecture Top-down Design with Use Case Diagrams, Activity Diagrams, and Sequence Diagrams Top-down Design with Component and Class Diagrams Analyzing Applications Using Architecture Explorer Using Layer Diagrams An Introduction to Software Development Unit Testing with the Unit Test Framework Managed Code Analysis and Code Metrics Profiling and Performance Database Development, Testing, and Deployment An Introduction to IntelliTrace An Introduction to Software Testing Web Performance and Load Testing Manual Testing Coded User Interface Testing Lab Management Introduction to Team Foundation Server Team Foundation Architecture Team Foundation Version Control Branching and Merging Team Foundation Build An Introduction to Project Management Process Templates Using Reports, Portals, and Dashboards Agile Planning Using Planning Workbooks Process Template Customizations Professional Application Lifecycle Management with Visual Studio 2010 shows developers, testers, architects and project managers alike how to leverage the power of Visual Studio 2010 to streamline software design and development.

Professional Visual Studio 2005 Team System

John Wiley & Sons A team of Microsoft insiders shows programmers how to use Visual Studio 2005 Team System, the new suite of products from Microsoft that can be used for software modeling, design, testing, and

deployment Focuses on practical application of the tools on code samples, development scenarios, and automation scripting This timely book serves as both as a step-by-step guide and as a reference for modeling, designing, and coordinating enterprise solutions at every level using Team System The book begins with an overview of Team System and then offers nuts-and-bolts guidance on practical implementation Code examples are provided in both VB.NET and C#

Pro Team Foundation Service

Apress Pro Team Foundation Service gives you a jump-start into Microsoft's cloud-based Application Lifecycle Management platform, taking you through the different stages of software development. Every project needs to plan, develop, test and release software and with agile practices often at a higher pace than ever before. Microsoft's Team Foundation Service is a cloud-based platform that gives you tools for agile planning and work tracking. It has a code repository that can be used not only from Visual Studio but from Java platforms and Mac OS X. The testing tools allow testers to start testing at the same time as developers start developing. The book also covers how to set up automated practices such as build, deploy and test workflows. This book: Takes you through the major stages in a software development project. Gives practical development guidance for the whole team. Enables you to quickly get started with modern development practices. With Microsoft Team Foundation Service comes a collaboration platform that gives you and your team the tools to better perform your tasks in a fully integrated way. What you'll learn What ALM is and what it can do for you. Leverage a cloud-based ALM platform for quick improvements in your development process. Improve your agile development process using integrated tools and practices. Develop automated build, deployment and testing processes. Integrate different development tools with one collaboration platform. Get started with ALM best-practices first time round. Who this book is for Pro Team Foundation Service is for any development team that wants to take their development practices to the next level. Microsoft Team Foundation Service is an excellent platform for managing the entire application development lifecycle and being a cloud-based offering it is very easy to get started. Pro Team Foundation Service is a great guide for anyone in a team who wants to get started with the service and wants to get expert guidance to do it right. Table of Contents Introduction to Application Lifecycle Management Introduction to Agile Planning, Development, and Testing Deciding on a Hosted Service Getting Started Working with the Initial Product Backlog Managing Team and Alerts Initial Sprint Planning Running the Sprint Kanban Engaging the Customer Choosing Source Control Options Working with Team Foundation Version Control in Visual Studio Working with Git in Visual Studio Working in Heterogeneous Environments Configuring Build Services Working with Builds Customizing Builds Continuous Deployment

Agile Testing Test Management Lab Management

Mastering Visual Studio .NET

"O'Reilly Media, Inc." A detailed handbook for experienced developers explains how to get the most out of Microsoft's Visual Studio .NET, offering helpful guidelines on how to use its integrated development environment, start-up templates, and other features and tools to create a variety of applications, including Web services. Original. (Advanced)

Professional Team Foundation Server 2013

John Wiley & Sons Team Foundation Server is now for everyone! Team Foundation Server is an integral part of Microsoft's Application Lifecycle Management suite for managing and delivering software projects. The 2013 update has opened up TFS for everyone by expanding capabilities to support iOS, MacOS, Android, and Java development. Professional Team Foundation Server 2013 covers the latest updates for Agile Project Management, Test-Case Management, Release Management, and shows new users the TFS workflow for managing and delivering products. The authors leverage their positions as MVP Microsoft insiders to guide you step-by-step through all things TFS, as well as help prepare you for the Team Foundation Server Certification Exam. Provides a broad overview of Team Foundation Server for developers, software project managers, testers, business analysts, and others wanting to learn how to use TFS Gives TFS administrators the tools they need to efficiently monitor and manage the TFS environment Covers core TFS functions including project management, work item tracking, version control, test case management, build automation, reporting Explains extensibility options and how to write extensions for TFS Helps certification candidates prepare for the Microsoft Team Foundation Server 2013 certification exam Professional Team Foundation Server 2013 is the ultimate guide to mastering this invaluable developer's tool.

Professional Visual Studio Extensibility

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considered a hard topic to learn for many developers in comparison with most .NET related topics. Also, its APIs are very complex and not very well written. Some may refer to these APIs as “dirty” because they do not have good structure, naming convention, or consistency. Visual Studio is now 10 years old. It was created during the COM days for COM programming but later migrated to .NET. However, Visual Studio still relies heavily on COM programming. It was revamped when moving to the .NET platform but still contains its COM nature; this fact is what makes it harder for .NET developers to work with VSX. Because it is an older product built on two technologies, it has produced inconsistency in code. Although there are problems with the current version of VSX, the future looks bright for it. The many different teams working on the software have been moved into one umbrella group known as the Visual Studio Ecosystem team. Throughout the past 10 years Visual Studio has continued to grow and new extensibility features have been added. Learning all of the options with their different purposes and implementations is not easy. Many extensibility features are broad topics such as add-ins, macros, and the new domain-specific language tools in Visual Studio. Learning these topics can be difficult because they are not closely related to general .NET programming topics. This book is for .NET developers who are interested in extending Visual Studio as their development tool. In order to understand the book you must know the following material well: Object-oriented programming (OOP), the .NET Framework and .NET programming, C# or Visual Basic languages, some familiarity with C++, some familiarity with XML and its related topics, and Visual Studio structure and usage. A familiarity with COM programming and different .NET technologies is helpful. The aims of this book are to: Provide an overview of all aspects of VSX Enable readers to know where/when to use extensibility Familiarize readers with VS Extensibility in detail Show readers the first steps and let them learn through their own experiences Use examples, sample code, and case studies to demonstrate things in such a way that helps readers understand the concepts Avoid bothering readers with long discussions and useless code samples In order to use this book, and get the most out of it, there are some technical requirements. You must have the following two packages installed on your machine to be able to read/understand the chapters and test code samples: Visual Studio 2008 Team System Edition (or other commercial editions) Visual Studio 2008 SDK 1.0 (or its newer versions) You will need to buy Visual Studio 2008 to register for an evaluation version. The Free Express editions of Visual Studio do not support the extensibility options. The Visual Studio SDK is needed in order to read some of the chapters in the book and can be downloaded as a free package. The operating system doesn't matter for the content of the book, but all code was written with Visual Studio 2008 Team System Edition in Windows Vista x86. Chapters 1, 2, and 3 will give you an introduction to the basic concepts you need to understand before you can move on to the rest of the book. Chapter 4 discusses the automation model, which is an

important prerequisite for many

Professional Scrum Development with Microsoft Visual Studio 2012

Pearson Education Discover how to turn requirements into working software increments—faster and more efficiently—using Visual Studio 2012 in combination with Scrum and Agile engineering practices. Designed for software development teams, this guide delivers pragmatic, role-based guidance for exploiting the capabilities of Application Lifecycle Management (ALM) tools in Visual Studio and Team Foundation Server. Team members will learn proven practices and techniques for implementing Scrum to manage an application's life cycle, as well as seamlessly plan, manage, and track their Scrum projects.

Team Foundation Server 2008 in Action

Simon and Schuster In complex software projects, managing the development process can be as critical to success as writing the code itself. A project may involve dozens of developers, managers, architects, testers, and customers, hundreds of builds, and thousands of opportunities to get off-track. To keep tabs on the people, tasks, and components of a medium- to large-scale project, most teams use a development system that allows for easy monitoring, follow-up, and accountability. Microsoft Team Foundation Server 2008 (TFS), the server component of Microsoft's Visual Studio Team System (VSTS), provides a powerful collaborative platform for software-development teams. The product offers an integrated toolset for tracking work items, creating test cases, managing source code, generating builds, constructing database schemas, and so on. Because in software development one size does not fit all, TFS provides process customization, project management, and reporting capabilities to build solutions around your requirements. *Team Foundation Server 2008 in Action* is a hands-on guide to Team Foundation Server 2008. Written for developers with a good handle on TFS basics, this book shows you how to solve real-life problems. It's not a repetition of Microsoft's product documentation. *Team Foundation Server 2008 in Action* is a practitioner's handbook for how to work with TFS under common constraints. This book walks you through real-life software engineering problems based on hundreds of hours of TFS experience. You'll benefit from expert author Jamil Azher's extensive interactions with members of Microsoft's TFS team and MVPs, survey feedback from the author's blog, and interviews with organizations and user groups using TFS. Instead of just offering a high-

level overview, the book provides detailed solutions for solving common- and not-so-common-problems using TFS. It discusses the strengths as well as weaknesses of TFS, and suggests appropriate problem resolution steps, workarounds, or custom solutions. 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.

Professional Application Lifecycle Management with Visual Studio 2013

John Wiley & Sons Ramp up your software development with this comprehensive resource Microsoft's Application Lifecycle Management (ALM) makes software development easier and now features support for iOS, MacOS, Android, and Java development. If you are an application developer, some of the important factors you undoubtedly consider in selecting development frameworks and tools include agility, seamless collaboration capabilities, flexibility, and ease of use. Microsoft's ALM suite of productivity tools includes new functionality and extensibility that are sure to grab your attention. Professional Application Lifecycle Management with Visual Studio 2013 provides in-depth coverage of these new capabilities. Authors Mickey Gousset, Martin Hinshelwood, Brian A. Randell, Brian Keller, and Martin Woodward are Visual Studio and ALM experts, and their hands-on approach makes adopting new ALM functionality easy. Streamline software design and deployment with Microsoft tools and methodologies Gain a practical overview of ALM with step-by-step guides and reference material Case studies illustrate specific functionality and provide in-depth instruction Use new capabilities to support iOS, MacOS, Android and Java development Discover this comprehensive solution for modeling, designing, and coordinating enterprise software deployments Over 100 pages of new content, forward-compatible with new product releases Professional Application Lifecycle Management with Visual Studio 2013 provides a complete framework for using ALM to streamline software design and deployment processes using well-developed Microsoft tools and methodologies. Professional Application Lifecycle Management with Visual Studio 2013 is your guide to make use of newly-available ALM features to take your enterprise software development to the next level.

Domain-Specific Development with

Visual Studio DSL Tools

Pearson Education Domain-Specific Languages (DSLs)--languages geared to specific vertical or horizontal areas of interest--are generating growing excitement from software engineers and architects. DSLs bring new agility to the creation and evolution of software, allowing selected design aspects to be expressed in terms much closer to the system requirements than standard program code, significantly reducing development costs in large-scale projects and product lines. In this breakthrough book, four leading experts reveal exactly how DSLs work, and how you can make the most of them in your environment. With *Domain-Specific Development with Visual Studio DSL Tools*, you'll begin by mastering DSL concepts and techniques that apply to all platforms. Next, you'll discover how to create and use DSLs with the powerful new Microsoft DSL Tools--a toolset designed by this book's authors. Learn how the DSL Tools integrate into Visual Studio--and how to define DSLs and generate Visual Designers using Visual Studio's built-in modeling technology. In-depth coverage includes Determining whether DSLs will work for you Comparing DSLs with other approaches to model-driven development Defining, tuning, and evolving DSLs: models, presentation, creation, updates, serialization, constraints, validation, and more Creating Visual Designers for new DSLs with little or no coding Multiplying productivity by generating application code from your models with easy-to-use text templates Automatically generating configuration files, resources, and other artifacts Deploying Visual Designers across the organization, quickly and easily Customizing Visual Designers for specialized process needs

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Pro .NET Best Practices

Apress Pro .NET Best Practices is a practical reference to the best practices that you can apply to your .NET projects today. You will learn standards, techniques, and conventions that are sharply focused, realistic and helpful for achieving results, steering clear of unproven, idealistic, and impractical recommendations. Pro .NET Best Practices covers a broad range of practices and principles that development experts agree are the right ways to develop software, which includes continuous integration, automated testing, automated deployment, and code analysis. Whether the solution is from a free and open source or a commercial offering, you will learn how to get a continuous integration server running and executing builds every

time code changes. You will write clearer and more maintainable automated testing code that focuses on prevention and helping your .NET project succeed. By learning and following the .NET best practices in this book, you will avoid making the same mistakes once. With this book at your side, you'll get: Real-world, no-nonsense approaches to continuous integration, automated testing, automated deployment, and code analysis Tips and tricks you'll need to clear hurdles that keep others from putting these common sense ideas into common practice Guidance from the minimal, essential approach all the way to what's necessary to deliver at the highest levels of quality and effectiveness Benefit immediately, even before finishing it, from the knowledge, workable advice, and experience found in Pro .NET Best Practices.

DevOps on the Microsoft Stack

Apres This book tells you everything you need to know to help your organization implement DevOps on the Microsoft platform. You will learn how to use Visual Studio, Visual Studio Team Services, and Azure to implement a complete DevOps process in your company. You will learn about Agile Project Management, Continuous Integration, Continuous Delivery, Technical Debt Management, Automatic Testing and Monitoring, and see how all these areas fit together. DevOps is important for organizations that want to make the best use of their resources and avoid costly mistakes. Teams that embrace DevOps deploy code up to 30 times more frequently than their competition and less than 50% of their deployments fail according to Puppet Labs State of DevOps survey. DevOps on the Microsoft Stack shows you how to help your organization implement DevOps, covering the tooling they will need and how to make everything work together while following best practices. The focus is not only on technology but also on the cultural issues that teams will face when implementing DevOps. The author's goal is to not only show you which tooling there is but help you to successfully use everything together to implement DevOps in your projects and organization. In this book, you'll learn: What DevOps is and how it can help development teams How to use Visual Studio, Visual Studio Team Services, and Azure to setup a DevOps process How to introduce DevOps to your organization and how to overcome problems

Pro Visual Studio Team System Application Lifecycle Management

Apres You can have the best coders in the world working in your teams, but if your project management isn't up to scratch, your project is almost certain to be delayed, to come in over budget, and in some cases to fail entirely. By taking precise control of your application development

process, you can make changes, both large and small, throughout your project's life cycle that will lead to better-quality finished products that are consistently delivered on time and within budget. Application lifecycle management (ALM) is an area of rapidly growing interest within the development community. Because its techniques allow you to deal with the process of developing applications across many areas of responsibility and across many different disciplines, its effects on your project can be wide ranging and pronounced. It is a project management tool that has practical implications for the whole team—from architects to designers, from developers to testers. This book focuses on the most powerful ALM tool available for the Microsoft .NET Framework: Visual Studio Team System (VSTS). It demonstrates the key concepts and techniques of ALM and illustrates how they can be achieved using the tools VSTS provides in a clear succinct style. After reading the book, you will understand how VSTS can be used to generate continuous meaningful reporting on your project's health for the decision makers on your team as well as for your project's sponsors.

Microsoft Visual Studio 2008 Unleashed

Pearson Education Microsoft® Visual Studio 2008 Unleashed is an end-to-end, deep dive into the Visual Studio development environment. It's meant to provide you guidance on how you can squeeze the ultimate productivity out of the many features built into the .NET development tools.

Understanding how to use your tools will make you a better developer. This book was written with that premise as its focus. The authors have folded in real-world development experience alongside detailed information about the IDE. The result is practical, easy-to-employ information that will make you a more productive and complete developer. This book also helps to ease your transition from other development environments and former versions of Visual Studio. Finally, this book provides an entire section dedicated to Visual Studio Team System. It will help you understand how the Team Architect, Team Developer, Team Database Developer, and Team Tester work with the Team Foundation Server to increase team collaboration, visibility, and productivity. **Microsoft® Visual Studio 2008 Unleashed** provides straight, to-the-point answers to common developer questions about the IDE. Detailed Information on... What's new in Visual Studio 2008 Working with solutions, projects, editors, and designers Writing ASP.NET applications Writing and consuming Web Services using Windows Communication Foundation (WCF) Writing Windows Forms and Windows Presentation Foundation (WPF) applications Creating and hosting workflow-based applications using Windows Workflow Foundation (WF) Working with data and databases Refactoring code Debugging code Automating the IDE Writing macros, add-ins, and wizards Using team

collaboration and the Visual Studio Team System products Managing source code changes Tracking projects with Team Foundation Server and work items Modeling applications Performing unit, web, and load testing Working with Team Foundation Build

VISUAL STUDIO TEAM SYSTEM

COLABORAÇÃO, QUALIDADE, PREVISIBILIDADE, CONTROLE

Brasport Este livro tem como principal objetivo apresentar aos desenvolvedores, gerentes de projetos e demais profissionais de tecnologia envolvidos na fabricação de software em geral os benefícios que o DLC (Software Development Life Cycle) baseado em tecnologia Microsoft proporciona. A partir de artefatos construídos nativamente ou customizados, você será capaz de rastrear operações, prover pontos críticos em seus projetos, informar melhor seus patrocinadores internos e externos (clientes) gerar Base-Lines, desenvolver paralelamente seus projetos sem perder o controle das versões que estão simultaneamente sendo trabalhadas, entre outros grandes recursos. A proposta deste livro é levar o leitor para dentro do seu próprio processo de desenvolvimento de software, fazendo-o refletir sobre como é necessário zelar pelo controle de suas atividades, pela previsibilidade de suas ações, pela qualidade de seu código e pela colaboração de sua equipe para gerar e atingir os seus objetivos.

The C# Programming Language

Pearson Education “Based on my own experience, I can safely say that every .NET developer who reads this will have at least one ‘aha’ moment and will be a better developer for it.” —From the Foreword by Don Box The popular C# programming language combines the high productivity of rapid application development languages with the raw power of C and C++. Now, C# 3.0 adds functional programming techniques and LINQ, Language INtegrated Query. The C# Programming Language, Third Edition, is the authoritative and annotated technical reference for C# 3.0. Written by Anders Hejlsberg, the language’s architect, and his colleagues, Mads Torgersen, Scott Wiltamuth, and Peter Golde, this volume has been completely updated and reorganized for C# 3.0. The book provides the complete specification of the language, along with descriptions, reference materials, code samples, and annotations from nine prominent C# gurus. The many annotations—a new feature in this edition—bring a depth and breadth of understanding rarely found in any programming book. As the main text of the book introduces the concepts of the C# language, cogent

annotations explain why they are important, how they are used, how they relate to other languages, and even how they evolved. This book is the definitive, must-have reference for any developer who wants to understand C#.

Testing for Continuous Delivery with Visual Studio 2012

Microsoft patterns & practices As more software projects adopt a continuous delivery cycle, testing threatens to be the bottleneck in the process. Agile development frequently revisits each part of the source code, but every change requires a re-test of the product. While the skills of the manual tester are vital, purely manual testing can't keep up. Visual Studio 2012 provides many features that remove roadblocks in the testing and debugging process and also help speed up and automate retesting. This guide shows you how to record and play back manual tests to reproduce bugs and verify the fixes, transform manual tests into code to speed up re-testing, monitor your project in terms of tests passed, create and use effective unit tests, load, and performance tests, run build-deploy-test workflows on virtual lab environments, and evolve your testing process to satisfy the demands of agile and continuous delivery. You'll learn how to set up all the tools you need for testing in Visual Studio 2012 and 2010, including Team Foundation Server, the build system, test controllers and agents, SCVMM and Hyper-V. Each chapter is structured so that you can move gradually from entry-level to advanced usage.

Microsoft Visual Studio 2005 Unleashed

Pearson Education Microsoft Visual Studio 2005 Unleashed is a deep dive into the Visual Studio 2005 tool. Specifically, it will provide you with solid guidance and education that will allow you to squeeze the ultimate productivity and use out of the Visual Studio 2005 development environment. This book folds in real-world development experience with detailed information about the IDE to make you more productive and ease transition from other development environments (including prior versions of Visual Studio). This book will also help you increase team collaboration and project visibility with Visual Studio Team Systems and it will give you straight, to-the-point answers to common developer questions about the IDE. Chapters include: Code Viewers, Explorers, and Browsers Refactoring Code 8 Writing ASP .NET Applications Defining Standards and Practices Introduction to Visual Studio Team System Work Item Tracking Unit and Load Testing

Professional Team Foundation Server

Wrox As the most important component of Microsoft's Visual Studio(r) 2005 Team System, Team Foundation Server is the central integration point that provides a collaborative environment for every member of a team, regardless of role. Since Team Foundation Server is so tightly interwoven with the rest of Team System, the authors have decided to present you with an invaluable resource that covers both, so that you may learn to set up and administer Team Foundation Server in order to effectively use the whole Team System toolset effectively. Three Microsoft Team System MVPs cover how to plan a Team System deployment, complete a software project, and everything in between. They show you how to handle real-world challenges and tackle the tasks and scenarios that encompass the entire software development lifecycle. What you will learn from this book How to implement IT governance such as Sarbanes-Oxley How to work with mixed environments (including Java and .NET) How to set up the product for large distributed environments How and why to take multiple lifecycles into consideration when deploying and using Team System How to create custom development tools and administer and customize work items How to monitor your team project metrics using SQL Server Reporting Services Who this book is for This book is for project managers, IT administrators, and anyone whose role consists of administering Team Foundation Server on a daily basis, running a software project, setting up users, or handling security. **Wrox Professional guides** are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job.

Visual Studio Tools for Office 2007 VSTO for Excel, Word, and Outlook

Pearson Education Visual Studio Tools for Office 2007: VSTO for Excel, Word, and Outlook is the definitive book on VSTO 2008 programming, written by the inventors of the technology. VSTO is a set of tools that allows professional developers to use the full power of Microsoft Visual Studio 2008 and the .NET Framework to program against Microsoft Office 2007. This book delivers in one place all the information you need to succeed using VSTO to program against Word 2007, Excel 2007, and Outlook 2007, and provides the necessary background to customize Visio

2007, Publisher 2007, and PowerPoint 2007. It introduces the Office 2007 object models, covers the most commonly used objects in those object models, and will help you avoid the pitfalls caused by the COM origins of the Office object models. Developers who wish to program against Office 2003 should consult Carter and Lippert's previous book, *Visual Studio Tools for Office*. In VSTO 2008, you can build add-ins for all the major Office 2007 applications, build application-level custom task panes, customize the new Office Ribbon, modify Outlook's user interface using Form Regions, and easily deploy everything you build using ClickOnce. Carter and Lippert cover their subject matter with deft insight into the needs of .NET developers learning VSTO, based on the deep knowledge that comes from the authors' unique perspective of living and breathing VSTO for the past six years. This book Explains the architecture of Microsoft Office programming and introduces the object models Covers the main ways Office applications are customized and extended Explores the ways of customizing Excel, Word, and Outlook, and plumbs the depths of programming with their events and object models Introduces the VSTO programming model Teaches how to use Windows Forms and WPF in VSTO and how to work with the Document Actions Pane and application-level task panes Delves into VSTO data programming and server data scenarios Teaches ClickOnce VSTO deployment This is the one book you need to succeed in programming against Office 2007. C# and Visual Basic .NET Code samples for download can be found here:

<http://www.informit.com/store/product.aspx?isbn=0321533216>

Essential LINQ

Addison-Wesley Professional "Charlie and Dinesh bring important skills to this project that enable them to show how LINQ works and the practical ways you can use it in your daily development process." From the Foreword by Anders Hejlsberg LINQ is one of Microsoft's most exciting, powerful new development technologies. Essential LINQ is the first LINQ book written by leading members of Microsoft's LINQ and C# teams. Writing for architects, developers, and development managers, these Microsoft insiders share their intimate understanding of LINQ, revealing new patterns and best practices for getting the most out of it. Calvert and Kulkarni begin by clearly explaining how LINQ resolves the long-time "impedance mismatch" between object-oriented code and relational databases. Next, they show how LINQ integrates querying into C# as a "first-class citizen." Using realistic code examples, they show how LINQ provides a strongly typed, IntelliSense-aware technology for working with data from any source, including SQL databases, XML files, and generic data structures. Calvert and Kulkarni carefully explain LINQ's transformative, composable, and declarative capabilities. By fully illuminating these three concepts, the authors allow developers to discover LINQ's full power. In addition to covering core concepts and hands-on LINQ development in C#

with LINQ to Objects, LINQ to XML, LINQ to SQL, and LINQ to Entities, they also present advanced topics and new LINQ implementations developed by the LINQ community. This book

- Explains the entire lifecycle of a LINQ project: design, development, debugging, and much more
- Teaches LINQ from both a practical and theoretical perspective
- Leverages C# language features that simplify LINQ development
- Offers developers powerful LINQ query expressions to perform virtually any data-related task
- Teaches how to query SQL databases for objects and how to modify those objects
- Demonstrates effective use stored procedures and database functions with LINQ
- Shows how to add business logic that reflects the specific requirements of your organization
- Teaches developers to create, query, and transform XML data with LINQ
- Shows how to transform object, relational, and XML data between each other
- Offers best patterns and practices for writing robust, easy-to-maintain LINQ code

The Complete Reference to Professional Soa with Visual Studio 2005 (C# & VB 2005) .Net 3.0

Lulu.com The Complete Reference to Professional SOA with Visual Studio 2005 (C# & VB 2005) focuses on architecting and constructing enterprise-level systems. Taking advantage of the newly released Visual Studio 2005 development environment, the book assesses the current service-oriented platform and examines new ways to develop for scalability, availability, and security (which have become available with .NET 2.0). You'll get to look closely at application infrastructure in terms of flexibility, interoperability, and integration, as well as the decisions that have to be made to achieve optimum balance within your architecture.