

alm test case management

ALM Test Case Management: A Comprehensive Guide

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Editor: John Miller, CSTE, has 20 years of experience in software testing and quality assurance, with a specific focus on ALM implementation and optimizing test case management processes within large-scale enterprise projects. He has overseen the implementation of numerous ALM tools and strategies for Fortune 500 companies.

Keyword: alm test case management

1. Introduction to ALM Test Case Management

Application Lifecycle Management (ALM) encompasses the entire lifecycle of software development, from initial concept to deployment and maintenance. ALM test case management is a crucial component of this process, focusing on the planning, creation, execution, and tracking of test cases throughout the software development lifecycle. Effective alm test case management significantly impacts software quality, reduces development costs, and accelerates time-to-market. This report

dives into the intricacies of alm test case management, exploring best practices, challenges, and the role of various tools and technologies.

2. The Importance of Robust ALM Test Case Management

A robust alm test case management system offers several key benefits:

Improved Test Coverage: A well-structured approach ensures comprehensive test coverage, minimizing the risk of undiscovered bugs. Research by the Software Engineering Institute (SEI) indicates that projects with comprehensive test case management experience a 30% reduction in post-release defects.

Enhanced Collaboration: Centralized repositories for test cases facilitate better collaboration among testers, developers, and stakeholders. This improved communication streamlines the development process and minimizes misunderstandings.

Increased Efficiency: Automated test case execution and reporting improve efficiency, freeing up testers to focus on more complex tasks. Studies have shown that automation in alm test case management can increase testing speed by 40-60%.

Reduced Costs: Early detection of defects through effective testing saves significant costs associated with fixing bugs later in the development cycle. A study by Capgemini found that fixing a bug in the testing phase is up to 10 times cheaper than fixing it after release.

Better Traceability: A solid alm test case management strategy enables easy traceability from requirements to test cases, ensuring that all aspects of the software are thoroughly tested. This enhances compliance and auditability.

3. Key Components of Effective ALM Test Case Management

Effective alm test case management relies on several key components:

Requirements Traceability: Linking test cases to specific requirements ensures that all functionalities are adequately covered.

Test Case Design: Employing appropriate test design techniques (e.g., equivalence partitioning,

boundary value analysis) ensures effective test case creation.

Test Data Management: Managing and organizing test data is crucial for reliable and repeatable test execution.

Test Environment Management: Ensuring a stable and consistent test environment is vital for accurate test results.

Defect Tracking and Reporting: A robust defect tracking system allows for efficient identification, resolution, and monitoring of software defects.

Test Execution and Reporting: Automated test execution and comprehensive reporting tools provide insights into test progress and results.

Test Case Version Control: Using version control systems for test cases ensures that changes are tracked and managed effectively.

4. Tools and Technologies for ALM Test Case Management

Numerous tools facilitate alm test case management. Popular choices include:

Jira: Widely used for agile project management, Jira offers robust test management capabilities through plugins like Zephyr or Xray.

TestRail: A dedicated test management tool focusing on test case organization, execution, and reporting.

Azure DevOps: Microsoft's ALM platform integrates requirements management, test case management, and defect tracking.

ALM Octane: Hewlett Packard Enterprise's ALM platform provides comprehensive ALM capabilities, including robust alm test case management features.

Selenium: Primarily an automation tool, Selenium can be integrated with other ALM tools for automated test case execution.

5. Challenges in ALM Test Case Management

Despite its benefits, implementing and maintaining effective alm test case management can present challenges:

Integration Complexity: Integrating different tools and systems can be complex and time-consuming.

Data Migration: Migrating existing test cases to a new system can be challenging.

Lack of Training: Insufficient training can hinder the effective adoption of new tools and processes.

Maintaining Test Cases: Keeping test cases up-to-date with evolving software requirements is an ongoing effort.

Resistance to Change: Introducing new tools and processes can face resistance from team members accustomed to established practices.

6. Best Practices for ALM Test Case Management

To overcome these challenges and maximize the benefits of alm test case management, several best practices should be followed:

Choose the Right Tools: Select tools that align with the organization's specific needs and technological infrastructure.

Establish Clear Processes: Define clear processes for test case creation, execution, and reporting.

Provide Adequate Training: Ensure that team members receive proper training on the chosen tools and processes.

Implement Version Control: Use version control systems to manage test cases and track changes.

Foster Collaboration: Encourage collaboration among testers, developers, and stakeholders.

Regularly Review and Improve: Periodically review and improve the alm test case management processes to ensure continuous improvement.

7. The Future of ALM Test Case Management

The future of alm test case management points towards increased automation, integration with AI and machine learning, and a greater emphasis on shift-left testing. AI-powered tools can assist in test case generation, defect prediction, and test automation. The integration of AI and ML will lead to more intelligent and efficient alm test case management processes, further enhancing software quality and reducing development costs.

8. Conclusion

Effective alm test case management is crucial for successful software development. By implementing robust processes, utilizing appropriate tools, and adhering to best practices, organizations can significantly improve software quality, reduce costs, and accelerate time-to-market. The future of alm test case management promises even greater efficiency and effectiveness through the integration of advanced technologies like AI and ML. The continuous evolution of tools and methodologies necessitates ongoing learning and adaptation to maximize the benefits of this essential aspect of the software development lifecycle.

9. FAQs

1. What is the difference between test case management and ALM test case management? Test case management focuses solely on test cases. ALM test case management integrates test case management within the broader context of the entire software development lifecycle, connecting it with requirements, defects, and other aspects.

1. How can I choose the right ALM test case management tool? Consider factors like your budget, team size, integration needs, and existing infrastructure. Evaluate different tools based on features, ease of use, and scalability.

1. What are the key metrics to track in ALM test case management? Track metrics like test coverage, defect density, test execution time, and test automation rate.

1. How can I improve collaboration in my ALM test case management process? Use centralized repositories, establish clear communication channels, and encourage regular meetings and feedback sessions.

1. How can I ensure requirements traceability in ALM test case management? Establish clear links between requirements and test cases, ideally using a traceability matrix.

1. What are the best practices for test data management in ALM test case management? Use dedicated test data management tools, create realistic and representative test data, and ensure data security and privacy.

1. How can I automate my ALM test case management process? Utilize test automation frameworks and tools to automate test execution, reporting, and other aspects of the process.

1. What are the challenges of implementing AI in ALM test case management? Challenges include data quality, model interpretability, and the need for skilled personnel.

1. How can I measure the ROI of my ALM test case management investment? Measure improvements in software quality, reduced defect rates, faster time-to-market, and reduced

development costs.

10. Related Articles

1. "Optimizing Test Case Design for Enhanced ALM Test Case Management": This article explores advanced test design techniques and strategies for creating more efficient and effective test cases within an ALM framework.
1. "The Role of Automation in Modern ALM Test Case Management": This piece examines the impact of test automation on various aspects of ALM test case management, including efficiency gains, challenges, and best practices.
1. "Integrating ALM Test Case Management with Agile Methodologies": This article explores how to successfully integrate ALM test case management into agile development processes, addressing specific challenges and opportunities.
1. "Best Practices for Defect Tracking and Reporting within ALM Test Case Management": This article details best practices for managing and reporting defects throughout the software lifecycle, emphasizing the role of integrated defect tracking systems within an ALM framework.

1. "Choosing the Right ALM Test Case Management Tool: A Comprehensive Guide": This guide offers a detailed comparison of various ALM test case management tools, helping readers to choose the most suitable option based on their specific requirements.

1. "Overcoming Common Challenges in ALM Test Case Management Implementation": This article offers practical solutions and strategies for addressing common hurdles during the implementation of ALM test case management systems.

1. "The Impact of AI and Machine Learning on the Future of ALM Test Case Management": This piece explores the potential of AI and ML to revolutionize ALM test case management, focusing on innovative applications and future trends.

1. "Building a Scalable ALM Test Case Management Strategy for Large Enterprises": This article provides guidance for companies looking to implement robust and scalable ALM test case management solutions for large-scale projects.

1. "Measuring the ROI of ALM Test Case Management: Key Metrics and Analysis": This article focuses on quantifying the return on investment of implementing an effective ALM test case management system, providing valuable insights for decision-making.

alm test case management: *Beginning Application Lifecycle Management* Joachim Rossberg,

2014-09-22 *Beginning Application Lifecycle Management* is a guide to an area of rapidly growing interest within the development community: managing the entire cycle of building software. ALM is an area that spans everything from requirements specifications to retirement of an IT-system or application. Because its techniques allow you to deal with the process of developing applications across many areas of responsibility and across many different disciplines, the benefits and effects of ALM techniques used on your project can be wide-ranging and pronounced. In this book, author Joachim Rossberg will show you what ALM is and why it matters. He will also show you how you can assess your current situation and how you can use this assessment to create the road ahead for improving or implementing your own ALM process across all of your team's development efforts. *Beginning Application Lifecycle Management* can be implemented on any platform. This book will use Microsoft Team Foundation Server as a foundation in many examples, but the key elements are platform independent and you'll find the book written in a platform agnostic way. In this book, you'll learn: What application lifecycle management is and why it matters. The steps necessary for implementing an ALM process. Tips and techniques you can use to gain control of your development efforts. How to implement an agile framework into your ALM process How to achieve traceability and visibility in your projects How to automate your ALM process

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Studies John Stark, 2019-05-07 This book presents some twenty case studies, showing how companies in different industry sectors and of different sizes make advances in Product Lifecycle Management (PLM). Like the author's previous volumes, this book provides a valuable resource for those wishing to learn about PLM and how to implement and apply it in their companies. Helping readers to · learn about implementing and benefiting from PLM; · learn about good PLM solutions and best practice; · improve their planning and decision-making abilities; · benefit from the lessons learned by the companies featured in the case studies; · proceed faster and further with PLM the book presents effective PLM solutions and best practices. At the same time, the case studies included demonstrate how different companies implement and benefit from PLM. Each case study is addressed in a separate chapter and details a different situation, enabling readers to put themselves in the situation and think through different actions and decisions. A valuable resource for PLM team managers and employees in engineering and manufacturing companies, the book is also of interest to researchers and students in industrial engineering fields.

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2016-06-01 *Integrate Agile ALM and DevOps to Build Better Software and Systems at Lower Cost* Agile Application Lifecycle Management (ALM) is a comprehensive development lifecycle that encompasses essential Agile principles and guides all activities needed to deliver successful software or other customized IT products and services. Flexible and robust, Agile ALM offers "just enough process" to get the job done efficiently and utilizes the DevOps focus on communication and collaboration to enhance interactions among all participants. Agile Application Lifecycle Management offers practical advice and strategies for implementing Agile ALM in your complex environment. Leading experts Bob Aiello and Leslie Sachs show how to fully leverage Agile benefits without sacrificing structure, traceability, or repeatability. You'll find realistic guidance for managing source code, builds, environments, change control, releases, and more. The authors help you support Agile in organizations that maintain traditional practices, conventional ALM systems, or siloed, non-Agile teams. They also show how to scale Agile ALM across large or distributed teams and to environments ranging from cloud to mainframe. Coverage includes Understanding key concepts underlying modern application and system lifecycles Creating your best processes for developing your most complex software and systems Automating build engineering, continuous integration, and continuous delivery/deployment Enforcing Agile ALM controls without compromising productivity Creating effective IT operations that align with Agile ALM processes Gaining more value from testing and retrospectives Making ALM work in the cloud, and across the

enterprise Preparing for the future of Agile ALM Today, you need maximum control, quality, and productivity, and this guide will help you achieve these capabilities by combining the best practices found in Agile ALM, Configuration Management (CM), and DevOps.

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alm test case management: Model-Based Testing Essentials - Guide to the ISTQB Certified Model-Based Tester Anne Kramer, Bruno Legeard, 2016-03-29 Provides a practical and comprehensive introduction to the key aspects of model-based testing as taught in the ISTQB® Model-Based Tester—Foundation Level Certification Syllabus This book covers the essentials of Model-Based Testing (MBT) needed to pass the ISTQB® Foundation Level Model-Based Tester Certification. The text begins with an introduction to MBT, covering both the benefits and the limitations of MBT. The authors review the various approaches to model-based testing, explaining the fundamental processes in MBT, the different modeling languages used, common good modeling practices, and the typical mistakes and pitfalls. The book explains the specifics of MBT test implementation, the dependencies on modeling and test generation activities, and the steps required to automate the generated test cases. The text discusses the introduction of MBT in a company, presenting metrics to measure success and good practices to apply. Provides case studies illustrating different approaches to Model-Based Testing Includes in-text exercises to encourage readers to practice modeling and test generation activities Contains appendices with solutions to the in-text exercises, a short quiz to test readers, along with additional information Model-Based Testing Essentials - Guide to the ISTQB® Certified Model-Based Tester - Foundation Level is written primarily for participants of the ISTQB® Certification: software engineers, test engineers, software developers, and anybody else involved in software quality assurance. This book can also be used for anyone who wants a deeper understanding of software testing and of the use of models for test generation.

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implementation practical. Building Secure Cars is: One of the first books to explain how the automotive industry can address the increased risks of cyberattacks, and how to incorporate security into the software development lifecycle An optimal resource to help improve software security with relevant organizational workflows and technical solutions A complete guide that covers introductory information to more advanced and practical topics Written by an established professional working at the heart of the automotive industry Fully illustrated with tables and visuals, plus real-life problems and suggested solutions to enhance the learning experience This book is written for software development process owners, security policy owners, software developers and engineers, and cybersecurity teams in the automotive industry. All readers will be empowered to improve their organizations' security postures by understanding and applying the practical technologies and solutions inside.

alm test case management: The Craft of Model-Based Testing Paul C. Jorgensen, 2017-05-08 In his latest work, author Paul C Jorgensen takes his well-honed craftsman's approach to mastering model-based testing (MBT). To be expert at MBT, a software tester has to understand it as a craft rather than an art. This means a tester should have deep knowledge of the underlying subject and be well practiced in carrying out modeling and testing techniques. Judgment is needed, as well as an understanding of MBT the tools. The first part of the book helps testers in developing that judgment. It starts with an overview of MBT and follows with an in-depth treatment of nine different testing models with a chapter dedicated to each model. These chapters are tied together by a pair of examples: a simple insurance premium calculation and an event-driven system that describes a garage door controller. The book shows how simpler models—flowcharts, decision tables, and UML Activity charts—express the important aspects of the insurance premium problem. It also shows how transition-based models—finite state machines, Petri nets, and statecharts—are necessary for the garage door controller but are overkill for the insurance premium problem. Each chapter describes the extent to which a model can support MBT. The second part of the book gives testers a greater understanding of MBT tools. It examines six commercial MBT products, presents the salient features of each product, and demonstrates using the product on the insurance premium and the garage door controller problems. These chapters each conclude with advice on implementing MBT in an organization. The last chapter describes six Open Source tools to round out a tester's knowledge of MBT. In addition, the book supports the International Software Testing Qualifications Board's (ISTQB®) MBT syllabus for certification.

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importance of ALM in the context of Microsoft Power Platform Leverage the Power Platform CLI to streamline ALM practices Develop a comprehensive strategy for managing Power Platform environments Explore techniques for defining robust Dataverse solutions for scalability and performance Apply ALM concepts to Microsoft Power Platform Use Managed Pipelines in managed Power Platform environments Implement a source-code-centric approach with Azure DevOps Pipelines and GitHub Actions Who this book is for If you are involved in managing the deployment of Microsoft Power Platform solutions, whether as a solution architect, developer, functional consultant, or DevOps specialist, this book is for you. Familiarity with Power Platform is recommended.

alm test case management: Pro Application Lifecycle Management with Visual Studio 2012 Joachim Rossberg, Mathias Olausson, 2012-11-27 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. Pro Application Lifecycle Management with Visual Studio 2012 focuses on the most powerful ALM tool available for the Microsoft .NET Framework: Visual Studio Team Foundation Server. It demonstrates the key concepts and techniques of ALM at first with a guide to the overall methodology, and then delves into architecture and testing--illustrating all of the concepts, tips and tricks using the tools TFS provides. The book serves as a complete guide to the ALM style--with no fluff and many relevant code samples and examples. After reading the book, you will understand how TFS 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.

alm test case management: Complex Systems Design & Management Daniel Krob, Lefei Li, Junchen Yao, Hongjun Zhang, Xinguo Zhang, 2021-04-09 This book contains all refereed papers accepted during the fourth asia-pacific edition & twelve edition - which were merged this year - of the CSD&M conference that took place in Beijing, People's Republic of China by 2021. Mastering complex systems requires an integrated understanding of industrial practices as well as sophisticated theoretical techniques and tools. This explains the creation of an annual go-between European and Asian forum dedicated to academic researchers & industrial actors working on complex industrial systems architecting, modeling & engineering. These proceedings cover the most recent trends in the emerging field of complex systems, both from an academic and professional perspective. A special focus was put this year on "Digital Transformation in Complex Systems Engineering". CESAM Community The CSD&M series of conferences are organized under the guidance of CESAM Community, managed by CESAMES. CESAM Community aims in organizing the sharing of good practices in systems architecting and model-based systems engineering (MBSE) and certifying the level of knowledge and proficiency in this field through the CESAM certification. The CESAM systems architecting & model-based systems engineering (MBSE) certification is especially currently the most disseminated professional certification in the world in this domain through more than 1,000 real complex system development projects on which it was operationally deployed and around 10,000 engineers who were trained on the CESAM framework at international level.

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Collaboration, Business Process Modeling, Innovation, Gamification, Mining and Business Process Performance, Requirements Engineering, Process Mining, Conceptual Modeling, Mining and Decision Support, Cloud and Services, Variability and Configuration, Open Source Software, and Business Process Management.

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alm test case management: Work Item Management with IBM Rational ClearQuest and Jazz David E. Bellagio, Shmuel Bashan, 2011-06-13 The Complete Guide to Managing Work Items and Workflow with IBM® Rational® ClearQuest® and IBM Rational Team Concert™ Work items are the lifeblood of software and hardware development. They tell development teams exactly who is doing what, which issues are resolved, which remain unresolved, and which products are impacted. In large, team-based projects, however, managing work items can be difficult. Now, two IBM Rational experts show how to simplify and improve every aspect of work item management with IBM Rational ClearQuest and the powerful and collaborative Jazz™-based products: IBM Rational Team Concert (RTC) and IBM Rational Quality Manager. Drawing on extensive experience with IBM customers, the authors tightly link theory with proven best practices, offering implementation guidance, detailed examples, and complete solutions. They present innovative solutions, introduce advanced customization techniques, and walk step-by-step through every phase of workflow development, from requirements through maintenance. They conclude with a full chapter of sample applications and solutions, ranging from Collaborative Application Lifecycle Management to SLAs. Coverage includes Understanding work items and their elements Using work items for changes, tasks, activities, test plans, test cases, risks, builds, and promotion Implementing best practices for work item application planning, analysis, design, development, testing, deployment, and maintenance Describing workflows, including advanced dynamic workflows Incorporating roles in work items and using them to meet business needs Using ClearQuest packages and custom integrations, and making the most of Jazz platform integration technology Getting the most of out the CQ-ALM schema Implementing effective quality and performance metrics, SLAs, and governance Improving test management with IBM Rational Quality Manager work items Creating effective workflows for Scrum and other Agile projects

alm test case management: Instant Approach to Software Testing Dr Anand Nayyar, 2019-10-22 One-stop Guide to software testing types, software errors, and planning process DESCRIPTION Software testing is conducted to assist testers with information to improvise the quality of the product under testing. The book primarily aims to present testing concepts, principles, practices, methods cum approaches used in practice. The book will help the readers to learn and

detect faults in software before delivering it to the end user. The book is a judicious mix of software testing concepts, principles, methodologies, and tools to undertake a professional course in software testing. The book will be a useful resource for students, academicians, industry experts, and software architects to learn artefacts of testing. The book discusses the foundation and primary aspects connected to the world of software testing, then it discusses the levels, types and terminologies associated with software testing. In the further chapters it will give a comprehensive overview of software errors faced in software testing as well as various techniques for error detection, then the test case development and security testing. In the last section of the book it discusses the defect tracking, test reports, software automation testing using the Selenium tool and then ISO/IEEE-based software testing standards.

KEY FEATURES Presents a comprehensive investigation about the software testing approach in terms of techniques, tools and standards Highlights test case development and defect tracking In-depth coverage of test reports development Covers the Selenium testing tool in detail Comprehensively covers IEEE/ISO/IEC software testing standards

WHAT WILL YOU LEARN With this book, the readers will be able to learn: Taxonomy, principles and concepts connected to software testing. Software errors, defect tracking, and the entire testing process to create quality products. Generate test cases and reports for detecting errors, bugs, and faults. Automation testing using the Selenium testing tool. Software testing standards as per IEEE/ISO/IEC to conduct standard and quality testing.

WHO THIS BOOK IS FOR The readers should have a basic understanding of software engineering concepts, object-oriented programming and basic programming fundamentals.

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alm test case management: Pro Team Foundation Service Mathias Olausson, Joachim Rossberg, Jakob Ehn, Mattias Skld, 2013-05-16 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

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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.

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that incorporates jointly (a) theory, (b) conceptual design and development, and (c) applications, in particular case studies and industrial solutions. Following and expanding the model created in 2003, we again solicited and selected quality workshop proposals to complement the more “archival” nature of the main conferences with research results in a number of selected and more “avant-garde” areas related to the general topic of Web-based distributed computing. For instance, the so-called Semantic Web has given rise to several novel research areas combining linguistics, information systems technology, and artificial intelligence, such as the modeling of (legal) regulatory systems and the ubiquitous nature of their usage. We were glad to see that ten of our earlier successful workshops (ADI, CAMS, EI2N, SWWS, ORM, OnToContent, MONET, SEMELS, COMBEK, IWSSA) re-appeared in 2008 with a second, third or even fourth edition, sometimes by alliance with other newly emerging workshops, and that no fewer than three brand-new independent workshops could be selected from proposals and hosted: ISDE, ODIS and Beyond SAWSDL. Workshop audiences productively mingled with each other and with those of the main conferences, and there was considerable overlap in authors.

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2015 Joachim Rossberg, 2016-05-06 This book will help you get started with agile project management using Microsoft’s latest releases of its market-leading Team Foundation Server (TFS) 2015, and Visual Studio Team Services (VSTS). The book demonstrates agile concepts and how to implement them using TFS/VSTS. Many organizations are using agile practices today. Agility has become a key enabler for running better projects with more successful end results and high quality output. At the same time, adoption of TFS/VSTS has increased dramatically, from being just a new version control system in the very beginning to becoming the fully-featured market leader it is today. In order to benefit the most from agile practices you need an Application Lifecycle Management (ALM) toolset that supports your way of working. With TFS/VSTS, Microsoft has provided a powerful tool that is very customizable. This book shows you how you can use TFS/VSTS to implement many agile practices and how they fit into a well-thought-out ALM implementation. The book also shows how an agile product owner can work with TFS/VSTS to setup an agile project from scratch and how to continue using TFS/VSTS throughout the whole project to track progress, create and refine the backlog, and work with Kanban and Scrum Task boards. Keeping track of progress is important in any project. TFS/VSO includes many tools which will help you to track key metrics in an agile project. Many useful reports are available out of the box, and the TFS extensibility offers several ways to further customize reporting to fit your needs. What You Will Learn: Agile Concepts and Processes How TFS/VSO supports agile processes end to end How you can customize TFS/VSO to better support your processes How to set up an agile project from scratch and manage it over its lifecycle

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and addressing them. This book, that was implemented by myself with the help of leaders from the DevOps and test automation space, is covering topics from basic introduction to AI and ML in software development and testing, implications of AI and ML on existing apps, processes, and tools, practical tips in applying commercial and open-source AI/ML tools within existing tool chain, chat-bots testing, visual based testing using AI, automated security scanning for vulnerabilities, automated code reviews, API testing and management using AI/ML, reducing effort and time through test impact analysis (TIA), robotic process automation (RPA), AIOps for smarter code deployments and production defects prevention, and many more. When properly leveraging such tools, DevOps teams can benefit from greater code quality and functional and non-functional test automation coverage. This increases their release cycle velocity, reduces noise and software waste, and enhances their app quality. The book is divided into 3 main sections: *Section 1 covers the fundamentals of AI and ML in software development and testing. It includes introductions, definitions, 101 for testing AI-Based applications, classifications of AI/ML and defects that are tied to AI/ML, and more.*Section 2 focuses on practical advises and recommendations for using AI/ML based solutions within software development activities. This section includes topics like visual AI test automation, AI in test management, testing conversational AI applications, RPA benefits, API testing and much more.*Section 3 covers the more advanced and future-looking angles of AI and ML with projections and unique use cases. Among the topics in this section are AI and ML in logs observability, AIOps benefits to an entire DevOps teams, how to maintain AI/ML test automation, Test impact analysis with AI, and more. The book is packed with many proven best practices, real life examples, and many other open source and commercial solution recommendations that are set to shape the future of DevOps together with ML/AI

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