Architecture-Centric Software Project Management



A Practical Guide

Daniel J. Paulish

Foreword by Len Bass

Architecture Centric Software Project Management A Practical Guide

Paul Clements, Felix Bachmann, Len Bass, David Garlan, James Ivers, Reed Little, Paulo Merson, Robert Nord, Judith Stafford

Architecture Centric Software Project Management A Practical Guide:

Architecture-centric Software Project Management Daniel J. Paulish, 2002 To fully leverage the value of software architecture in enterprise development projects you need to expressly and consciously link architecture with project management This book shows how drawing on powerful lessons learned at Siemens one of the world's leading software development organizations. The authors offer insight into project management for software architects insight into software architecture for project managers and above all insight into integrating the two disciplines to maximize the effectiveness of both of them Learn how to develop cost and schedule estimates for development projects based on software architecture how to clarify architecture so projects can be more effectively planned and managed and then how to use architecture to organize implement and measure the project iteratively as work progresses Software Architecture in Practice Len Bass, Paul Clements, Rick Kazman, 2021-06-30 The Definitive Practical Proven Guide to Architecting Modern Software Fully Updated with New Content on Mobility the Cloud Energy Management DevOps Quantum Computing and More Updated with eleven new chapters Software Architecture in Practice Fourth Edition thoroughly explains what software architecture is why it s important and how to design instantiate analyze evolve and manage it in disciplined and effective ways Three renowned software architects cover the entire lifecycle presenting practical guidance expert methods and tested models for use in any project no matter how complex You ll learn how to use architecture to address accelerating growth in requirements system size and abstraction and to manage emergent quality attributes as systems are dynamically combined in new ways With insights for utilizing architecture to optimize key quality attributes including performance modifiability security availability interoperability testability usability deployability and more this guide explains how to manage and refine existing architectures transform them to solve new problems and build reusable architectures that become strategic business assets Discover how architecture influences and is influenced by technical environments project lifecycles business profiles and your own practices Leverage proven patterns interfaces and practices for optimizing quality through architecture Architect for mobility the cloud machine learning and quantum computing Design for increasingly crucial attributes such as energy efficiency and safety Scale systems by discovering architecturally significant influences using DevOps and deployment pipelines and managing architecture debt Understand architecture s role in the organization so you can deliver more value Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details Documenting Software Architectures Paul Clements, Felix Bachmann, Len Bass, David Garlan, James Ivers, Reed Little, Paulo Merson, Robert Nord, Judith Stafford, 2010-10-05 Software architecture the conceptual glue that holds every phase of a project together for its many stakeholders is widely recognized as a critical element in modern software development Practitioners have increasingly discovered that close attention to a software system s architecture pays valuable dividends Without an architecture that is appropriate for the problem being solved a project will

stumble along or most likely fail Even with a superb architecture if that architecture is not well understood or well communicated the project is unlikely to succeed Documenting Software Architectures Second Edition provides the most complete and current guidance independent of language or notation on how to capture an architecture in a commonly understandable form Drawing on their extensive experience the authors first help you decide what information to document and then with quidelines and examples in various notations including UML show you how to express an architecture so that others can successfully build use and maintain a system from it The book features rules for sound documentation the goals and strategies of documentation architectural views and styles documentation for software interfaces and software behavior and templates for capturing and organizing information to generate a coherent package New and improved in this second edition Coverage of architectural styles such as service oriented architectures multi tier architectures and data models Guidance for documentation in an Agile development environment Deeper treatment of documentation of rationale reflecting best industrial practices Improved templates reflecting years of use and feedback and more documentation layout options A new comprehensive example available online featuring documentation of a Web based service oriented system Reference guides for three important architecture documentation languages UML AADL and SySML Software Architectures Manfred Nagl, Bernhard Westfechtel, 2024-04-26 This textbook concentrates on processes activities and results related to software architectures It describes the separation of architecture artefacts corresponding to their nature their logical or their modeling level on one hand and at the same time emphasizes their integration based on their mutual relations Design or development processes demand for integration as different artifacts must be elaborated which are mutually dependent and need to be in a consistent form The book is structured in four parts The introductory Part I deals with the relevance of architectures the central role of the design subprocess both in development or maintenance and the importance of the decisions and artefacts in the overall result Another topic is the spectrum of views an architecture language has to offer and that there are different architectures to be regarded from abstract and static to detailed technical and specific Part II then discusses important topics on the architecture level It deals with adaptability especially for embedded systems with integrating styles pattern notations with different reuse forms and how to find them with the role of architectures for integrating different existing systems and with reverse and reengineering of legacy systems Next Part III covers architecture modeling and its relation to surrounding activities as well as architectures to surrounding other results The single chapters are on transformation between requirements and architectures architectures and programming architectures and project management and organization as well as architectures and their relations to quality assurance or documentation Eventually Part IV summarizes the main messages and presents open problems both for every single chapter and across chapters Every chapter focuses on a specific problem it addresses a question it answers the attention it demands a message it conveys and further open questions it raises The chapters are mostly independent which implies a certain redundancy yet it allows

lecturers and their students to either use the book as the basis of teaching software architecture or design or to just pick those aspects that need special attention in a more advanced course **Large-Scale Software Architecture** Jeff Garland, Richard Anthony, 2003-07-25 The purpose of large scale software architecture is to capture and describe practical representations to make development teams more effective In this book the authors show how to utilise software architecture as a tool to guide the development instead of capturing the architectural details after all the design decisions have been made Offers a concise description of UML usage for large scale architecture Discusses software architecture and design principles Technology and vendor independent **Introduction to the Team Software Process** Watts S. Humphrey, 2000 TSPi overview The logic of the team software process The TSPi process The team roles Using the TSPi Teamwork Architecture-based Approach for Change Impact Analysis of Software-intensive Systems Busch, Kiana, 2020-03-19 **CMM in Practice** Pankaj Jalote, 2000 Project initiation Project planning Project execution and termination Architecture-based Evolution of Dependable Software-intensive Systems Heinrich, Robert, 2023-06-05 This cumulative habilitation thesis proposes concepts for i modelling and analysing dependability based on architectural models of software intensive systems early in development ii decomposition and composition of modelling languages and analysis techniques to enable more flexibility in evolution and iii bridging the divergent levels of abstraction between data of the operation phase architectural models and source code of the development phase **Software Architecture** Matthias Galster, Patrizia Scandurra, Tommi Mikkonen, Pablo Oliveira Antonino, Elisa Yumi Nakagawa, Elena Navarro, 2024-08-31 This book constitutes the refereed proceedings of the 18th European Conference on Software Architecture ECSA 2024 held in Luxembourg City Luxembourg during September 2 6 2024 The 14 full research papers 3 experience report papers 7 short papers and 3 industry papers included in this book were carefully reviewed and selected from 89 submissions They were organized in topical sections as follows Architecture modeling and design Architecture evaluation Microservices architecture Sustainability Trustworthiness Architecture decision making and Architecture documentation Global Software and IT Christof Ebert, 2011-09-26 Based on the author's first hand experience and expertise this book offers a proven framework for global software engineering Readers will learn best practices for managing a variety of software projects coordinating the activities of several locations across the globe while accounting for cultural differences Most importantly readers will learn how to engineer a first rate software product as efficiently as possible by fully leveraging global personnel and resources Global Software and IT takes a unique approach that works for projects of any size examining such critical topics as Executing a seamless project across multiple locations Mitigating the risks of off shoring Developing and implementing processes for global development Establishing practical outsourcing guidelines Fostering effective collaboration and communication across continents and culture This book provides a balanced framework for planning global development

covering topics such as managing people in distributed sites and managing a project across locations It delivers a

comprehensive business model that is beneficial to anyone looking for the most cost effective efficient way to engineer good Human-Computer Interaction Julie A. Jacko, Constantine Stephanidis, 2003-09-01 This four volume set software products provides the complete proceedings of the 10th International Conference on Human Computer Interaction held June 2003 in Crete Greece A total of 2 986 individuals from industry academia research institutes and governmental agencies from 59 countries submitted their work for presentation at the conference The papers address the latest research and development efforts as well as highlight the human aspects of design and use of computing systems Those accepted for presentation thoroughly cover the entire field of human computer interaction including the cognitive social ergonomic and health aspects of work with computers The papers also address major advances in knowledge and effective use of computers in a variety of diversified application areas including offices financial institutions manufacturing electronic publishing construction health care and disabled and elderly people Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills Yu, Liquo, 2014-03-31 Computer science graduates often find software engineering knowledge and skills are more in demand after they join the industry However given the lecture based curriculum present in academia it is not an easy undertaking to deliver industry standard knowledge and skills in a software engineering classroom as such lectures hardly engage or convince students Overcoming Challenges in Software Engineering Education Delivering Non Technical Knowledge and Skills combines recent advances and best practices to improve the curriculum of software engineering education This book is an essential reference source for researchers and educators seeking to bridge the gap between industry expectations and what academia can provide in software engineering education Project Management the Agile Way John C. Goodpasture, 2010-01-15 Project Management the Agile Way was written for experienced project managers architects and systems analysts who are comfortable in traditional methods of project management but now need to learn about agile methods for software projects and understand how to make agile work effectively in the enterprise The methodologies included under the agile umbrella go by many names such as Scrum XP Crystal and EVO to name a few Project managers will gain practical day to day tips and advice on how to apply these practices to mainstream projects and how to integrate these methods with other methodologies used in the enterprise Key Features Offers a review of most of the popular agile and iterative methodologies for project management Presents practical tips and application advice for how to harmonize agile and iterative methods with mainstream project processes Describes how earned value can work with non traditional methods Explains how to scale agile and iterative methods for enterprise projects Shows the means to contract and outsource with agile and iterative methods Provides guidance to build a business case and track post project benefits

Foundations of Software and System Performance Engineering André B. Bondi,2014-08-08 If this book had been available to Healthcare gov s contractors and they read and followed its life cycle performance processes there would not have been the enormous problems apparent in that application In my 40 years of experience in building leading edge

products poor performance is the single most frequent cause of the failure or cancellation of software intensive projects This book provides techniques and skills necessary to implement performance engineering at the beginning of a project and manage it throughout the product s life cycle I cannot recommend it highly enough Don Shafer CSDP Technical Fellow Athens Group LLC Poor performance is a frequent cause of software project failure Performance engineering can be extremely challenging In Foundations of Software and System Performance Engineering leading software performance expert Dr Andr Bondi helps you create effective performance requirements up front and then architect develop test and deliver systems that meet them Drawing on many years of experience at Siemens AT plan for diverse workloads evaluate scalability capacity and responsiveness and test both individual components and entire systems Throughout Bondi helps you link performance engineering with everything else you do in the software life cycle so you can achieve the right performance now and in the future at lower cost and with less pain This guide will help you Mitigate the business and engineering risk associated with poor system performance Specify system performance requirements in business and engineering terms Identify metrics for comparing performance requirements with actual performance Verify the accuracy of measurements Use simple mathematical models to make predictions plan performance tests and anticipate the impact of changes to the system or the load placed upon it Avoid common performance and scalability mistakes Clarify business and engineering needs to be satisfied by given levels of throughput and response time Incorporate performance engineering into agile processes Help stakeholders of a system make better performance related decisions Manage stakeholders expectations about system performance throughout the software life cycle and deliver a software product with quality performance Andr B Bondi is a senior staff engineer at Siemens Corp Corporate Technologies in Princeton New Jersey His specialties include performance requirements performance analysis modeling simulation and testing Bondi has applied his industrial and academic experience to the solution of performance issues in many problem domains In addition to holding a doctorate in computer Managed Software Evolution Ralf Reussner, Michael science and a master s in statistics he is a Certified Scrum Master Goedicke, Wilhelm Hasselbring, Birgit Vogel-Heuser, Jan Keim, Lukas Märtin, 2019-06-26 This open access book presents the outcomes of the Design for Future Managed Software Evolution priority program 1593 which was launched by the German Research Foundation Deutsche Forschungsgemeinschaft DFG to develop new approaches to software engineering with a specific focus on long lived software systems The different lifecycles of software and hardware platforms lead to interoperability problems in such systems Instead of separating the development adaptation and evolution of software and its platforms as well as aspects like operation monitoring and maintenance they should all be integrated into one overarching process Accordingly the book is split into three major parts the first of which includes an introduction to the nature of software evolution followed by an overview of the specific challenges and a general introduction to the case studies used in the project The second part of the book consists of the main chapters on knowledge carrying software and cover tacit

knowledge in software evolution continuous design decision support model based round trip engineering for software product lines performance analysis strategies maintaining security in software evolution learning from evolution for evolution and formal verification of evolutionary changes In turn the last part of the book presents key findings and spin offs The individual chapters there describe various case studies along with their benefits deliverables and the respective lessons learned An overview of future research topics rounds out the coverage The book was mainly written for scientific researchers and advanced professionals with an academic background They will benefit from its comprehensive treatment of various topics related to problems that are now gaining in importance given the higher costs for maintenance and evolution in comparison to the initial development and the fact that today most software is not developed from scratch but as part of a continuum of former and future releases Architectural Design Decision Documentation through Reuse of Design Patterns Durdik, Zoya, 2016-07-07 The ADMD3 approach presented in this book enchances the architectural design documentation of decision via reuse of design patterns It combines the support for evaluation of pattern application semi automated documentation of decision rationale and trace links The approach is based on a new kind of design pattern catalogue whereby usual pattern descriptions are captured together with question annotations to the patterns and information on architectural structure of patterns Modeling and Simulating Software Architectures Ralf H. Reussner, Steffen Becker, Jens Happe, Robert Heinrich, Anne Koziolek, 2016-10-28 A new quantitative architecture simulation approach to software design that circumvents costly testing cycles by modeling quality of service in early design states Too often software designers lack an understanding of the effect of design decisions on such quality attributes as performance and reliability This necessitates costly trial and error testing cycles delaying or complicating rollout This book presents a new quantitative architecture simulation approach to software design which allows software engineers to model quality of service in early design stages It presents the first simulator for software architectures Palladio and shows students and professionals how to model reusable parametrized components and configured deployed systems in order to analyze service attributes The text details the key concepts of Palladio s domain specific modeling language for software architecture quality and presents the corresponding development stage It describes how quality information can be used to calibrate architecture models from which detailed simulation models are automatically derived for quality predictions Readers will learn how to approach systematically questions about scalability hardware resources and efficiency The text features a running example to illustrate tasks and methods as well as three case studies from industry Each chapter ends with exercises suggestions for further reading and takeaways that summarize the key points of the chapter The simulator can be downloaded from a companion website which offers additional material The book can be used in graduate courses on software architecture quality engineering or performance engineering It will also be an essential resource for software architects and software engineers and for practitioners who want to apply Palladio in industrial settings
The CERT Oracle Secure Coding Standard for Java Fred

Long, 2012 In the Java world security is not viewed as an add on a feature It is a pervasive way of thinking Those who forget to think in a secure mindset end up in trouble But just because the facilities are there doesn't mean that security is assured automatically A set of standard practices has evolved over the years The Secure R Coding R Standard for Java TM is a compendium of these practices These are not theoretical research papers or product marketing blurbs This is all serious mission critical battle tested enterprise scale stuff James A Gosling Father of the Java Programming Language An essential element of secure coding in the Java programming language is a well documented and enforceable coding standard Coding standards encourage programmers to follow a uniform set of rules determined by the requirements of the project and organization rather than by the programmer's familiarity or preference Once established these standards can be used as a metric to evaluate source code using manual or automated processes The CERT R Oracle R Secure Coding Standard for Java TM provides rules designed to eliminate insecure coding practices that can lead to exploitable vulnerabilities Application of the standard s guidelines will lead to higher quality systems robust systems that are more resistant to attack Such guidelines are required for the wide range of products coded in Java for devices such as PCs game players mobile phones home appliances and automotive electronics After a high level introduction to Java application security seventeen consistently organized chapters detail specific rules for key areas of Java development For each area the authors present noncompliant examples and corresponding compliant solutions show how to assess risk and offer references for further information Each rule is prioritized based on the severity of consequences likelihood of introducing exploitable vulnerabilities and cost of remediation The standard provides secure coding rules for the Java SE 6 Platform including the Java programming language and libraries and also addresses new features of the Java SE 7 Platform It describes language behaviors left to the discretion of JVM and compiler implementers guides developers in the proper use of Java's APIs and security architecture and considers security concerns pertaining to standard extension APIs from the javax package hierarchy The standard covers security issues applicable to these libraries lang util Collections Concurrency Utilities Logging Management Reflection Regular Expressions Zip I O JMX JNI Math Serialization and JAXP

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