

Architecture-Centric Software Project Management



A Practical
Guide

Daniel J. Paulish

Foreword by Len Bass

Architecture Centric Software Project Management A Practical Guide

Rosina Ehmann



Architecture Centric Software Project Management A Practical Guide:

□□□□□□□□□□ Daniel J. Paulish,2002 **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 guidelines 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

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

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

Agile Software Architecture Georg Buchgeher, Rainer Weinreich, 2013-11-27 This chapter discusses software architecture analysis in the context of agile processes Agile processes are characterized by incremental and interleaved activities and by a focus on continuous improvement and delivery Most approaches to software architecture analysis however have been developed to be performed at dedicated points in the development process or as external evaluation activities and not as continuous activities throughout the development process This chapter discusses continuous software architecture analysis CSAA It reviews important requirements for CSAA and outlines how CSAA is supported by current software architecture analysis approaches It further presents experiences with an approach for continuous structural and conformance analysis and identifies future research challenges

Managed Software Evolution Ralf Reussner, Michael Goedicke, Wilhelm Hasselbring, Birgit Vogel-Heuser, Jan Keim, Lukas Martin, 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 *CMM in Practice* Pankaj Jalote, 2000 Project initiation Project planning Project execution and termination **Economics-Driven Software Architecture** Ivan Mistrik, Rami Bahsoon, Rick Kazman, Yuanyuan Zhang, 2014-06-03 Economics driven Software Architecture presents a guide for engineers and architects who need to understand the economic impact of architecture design decisions the long term and strategic viability cost effectiveness and sustainability of applications and systems Economics driven software development can increase quality productivity and profitability but comprehensive knowledge is needed to understand the architectural challenges involved in dealing with the development of large architecturally challenging systems in an economic way This book covers how to apply economic considerations during the software architecting activities of a project Architecture centric approaches to development and systematic evolution where managing complexity cost reduction risk mitigation evolvability strategic planning and long term value creation are among the major drivers for adopting such approaches It assists the objective assessment of the lifetime costs and benefits of evolving systems and the identification of legacy situations where architecture or a component is indispensable but can no longer be evolved to meet changing needs at economic cost Such consideration will form the scientific foundation for reasoning about the economics of nonfunctional requirements in the context of architectures and architecting Familiarizes readers with essential considerations in economic informed and value driven software design and analysis Introduces techniques for making value based software architecting decisions Provides readers a better understanding of the methods of economics driven architecting

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