



Evaluating Software Architectures

SEI SERIES IN SOFTWARE ENGINEERING



Methods
and
Case
Studies

Paul Clements
Rick Kazman
Mark Klein

Evaluating Software Architectures Methods And Case Studies

Lei Shi



Evaluating Software Architectures Methods And Case Studies:

Evaluating Software Architectures Paul Clements, Rick Kazman, Mark Klein, 2002 The foundation of any software system is its architecture Using this book you can evaluate every aspect of architecture in advance at remarkably low cost identifying improvements that can dramatically improve any system s performance security reliability and maintainability As the practice of software architecture has matured it has become possible to identify causal connections between architectural design decisions and the qualities and properties that result downstream in the systems that follow from them This book shows how offering step by step guidance as well as detailed practical examples complete with sample artifacts reflective of those that evaluators will encounter The techniques presented here are applicable not only to software architectures but also to system architectures encompassing computing hardware networking equipment and other elements For all software architects software engineers developers IT managers and others responsible for creating evaluating or implementing software architectures

Evaluating Software Architectures Paul Clements, Rick Kazman, Mark Klein, 2002 Evaluating Software Architectures Paul Clements, 2001 **Software Architecture** Muhammad Ali Babar, Ian Gorton, 2010-08-27

Welcome to the European Conference on Software Architecture ECSA which is the premier European software engineering conference ECSA provides researchers and practitioners with a platform to present and discuss the most recent innovative and significant findings and experiences in the field of software architecture research and practice The fourth edition of ECSA was built upon a history of a successful series of European workshops on software architecture held from 2004 through 2006 and a series of European software architecture conferences from 2007 through 2009 The last ECSA was merged with the 8th Working IEEE IFIP Conference on Software Architecture WICSA Apart from the traditional technical program consisting of keynote talks a main search track and a poster session the scope of the ECSA 2010 was broadened to incorporate other tracks such as an industry track doctoral symposium track and a tool demonstration track In addition we also offered several workshops and tutorials on diverse topics related to software architecture We received more than 100 submissions in the three main categories full research and experience papers emerging research papers and research challenges papers The conference attracted papers co authored by researchers practitioners and academics from 30 countries Algeria Australia Austria Belgium Brazil Canada Chile China Colombia Czech Republic Denmark Finland France Germany Hong Kong I land India Ireland Israel Italy The Netherlands Poland Portugal Romania Spain Sweden Switzerland Tunisia United Kingdom United States

Software Architecture in Practice Len Bass, Paul Clements, Rick Kazman, 2012-09-25 The award winning and highly influential Software Architecture in Practice Third Edition has been substantially revised to reflect the latest developments in the field In a real world setting the book once again introduces the concepts and best practices of software architecture how a software system is structured and how that system s elements are meant to interact Distinct from the details of implementation algorithm and data representation an architecture holds the key

to achieving system quality is a reusable asset that can be applied to subsequent systems and is crucial to a software organization's business strategy. The authors have structured this edition around the concept of architecture influence cycles. Each cycle shows how architecture influences and is influenced by a particular context in which architecture plays a critical role. Contexts include technical environment, the life cycle of a project, an organization's business profile, and the architect's professional practices. The authors also have greatly expanded their treatment of quality attributes, which remain central to their architecture philosophy, with an entire chapter devoted to each attribute and broadened their treatment of architectural patterns. If you design, develop, or manage large software systems or plan to do so, you will find this book to be a valuable resource for getting up to speed on the state of the art. Totally new material covers Contexts of software architecture: technical, project, business, and professional. Architecture competence: what this means, both for individuals and organizations. The origins of business goals and how this affects architecture. Architecturally significant requirements and how to determine them. Architecture in the life cycle, including generate and test as a design philosophy, architecture conformance during implementation, architecture and testing, and architecture and agile development. Architecture and current technologies, such as the cloud, social networks, and end-user devices.

Documenting Software Architectures Paul Clements, 2003

Architecture is crucial to the success of any large software system, but even a superb architecture will fail if it isn't communicated well. Now there's a language and notation-independent guide to capturing architecture so it can be used successfully by every analyst, software designer, and developer. The authors review the diverse goals and uses of software architecture documentation, providing documentation strategies for several common scenarios. They identify the basic unit of software architecture documentation, the viewtype, which specifies the type of information to be provided in an architectural view. For each viewtype (Modules, Component, and Connectors, and Allocation), they offer detailed guidance on documenting what really matters. Next, they demonstrate how to package architecture documentation in coherent, usable form, augmenting architectural views with documentation of interfaces and behavior, accounting for architectural variability and dynamic systems, and more.

Object-oriented Software Engineering Bernd Bruegge, Allen H. Dutoit, 2010

This textbook develops a long-term single project and explores both the theoretical foundations of software engineering as well as the principles and practices of various tools, processes, and products. It emphasizes practical experience whereby participants can apply the techniques learned in class to a realistic problem.

Evaluating Software Architecture Based on Their Implemented Patterns and Tactics Hind Ahmad Ismail Bani Milhem, 2020

Context: Software architecture plays a critical role in achieving system quality attributes. Therefore, evaluating a system's architecture with regard to desired quality requirements is very important. Architecture evaluation is an approach for assessing whether a software architecture can support the system needs, especially its quality attributes. Software architecture evaluation methods have been developed based on various characteristics and criteria, such as the previous experience and domain knowledge of architects or developers, mathematical

methods features and scenarios and testing However these methods may not be sufficient to reliably analyze certain quality attributes i e performance availability and reliability These methods also put little consideration on the architectural patterns and tactics used in the implementation and the importance values of the desired quality attributes Objectives This thesis proposes an architecture evaluation approach that considers satisfaction values of the quality attributes Non Functional Requirements by the implemented patterns and tactics The main objectives of this thesis are to provide A way to connect a software implementation to quality attributes to support a software architecture evaluation based on its implemented architectural patterns and tactics The evaluation considers the importance values of the quality attributes Software architectures model in terms of their implemented architectural patterns and tactics taking into consideration the overlaps between the architectural patterns and tactics and the importance values of the quality attributes Such a model would provide a rationale about the satisfaction levels of given quality attributes and their trade offs Method In this thesis I extract the implemented architectural patterns and tactics from a software architecture s source code and document them to connect the software architecture to quality requirements I use a tool called Archie to extract the implemented architectural patterns tactics from software I then document and model the patterns tactics implemented by a software architecture and their impact on quality attributes using the Goal oriented Requirements Language GRL Furthermore I evaluate the GRL model of a software architecture by applying GRL jUCMNav evaluation strategies to get the satisfaction values of the quality attributes I validate the applicability and feasibility of our approach by applying it to different case studies from different contexts big data systems the healthcare system of systems and build automation systems I compare the inferred quality attributes such as reliability availability performance etc to benchmark comparison results from the literature and existing evaluation approaches Results The satisfaction levels of the quality requirements by a set of architectural patterns and tactics of a software architecture integrated with other criteria such as the importance values of the quality requirements provide architects with a tool for evaluating different software architectures and documenting their rationale for assessing a software architecture The three case studies show that our approach can be used to evaluate multiple software architectures and therefore to identify strengths and weaknesses in different alternatives i e alternative architectures frameworks and choose among them during the early design stages i e cyber fusion center case study Furthermore it can be used to analyze understand and evaluate an existing implementation before future maintenance i e HSH SoS architecture case study Additionally our approach can be used to compare several implementations based on specific quality attributes i e Gradle and Maven case study Finally the modeling artifact should also enable faster evaluation with less efforts compared to the manual inspection of the source code and documentation of a software architecture **Software Architecture** ,2005

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

The CERT Guide to System and Network Security Practices Julia H. Allen, 2001 Showing how to improve system and network security this guide explores the practices and policies of deploying firewalls securing network servers securing desktop workstations intrusion detection response and recovery

Proceedings of the ... Annual Software Engineering Workshop, 2003 The Art of Software Architecture Stephen T. Albin, 2003-04-04 This innovative book uncovers all the steps readers should follow in order to build successful software and systems With the help of numerous examples Albin clearly shows how to incorporate Java XML SOAP ebXML and BizTalk when designing true distributed business systems Teaches how to easily integrate design patterns into software design Documents all architectures in UML and presents code in either Java or C

Proceedings of the ... European Conference on Software Maintenance and Reengineering, 2004 *Software Development*, 2003 **Building Systems from Commercial Components** Kurt C. Wallnau, Scott Hissam, Robert C. Seacord, 2002 A principal source of risk in component based software design say Wallnau and two other technicians at the institute Scott A Hissam and Robert C Seacord is a lack of knowledge about how components should be integrated and how they behave when integrated To mitigate that risk they introduce several concepts among them the component ensemble as a design abstraction blackboards as a fundamental design notation and a process for exposing design risk They speak to practicing and student software engineers c Book News Inc Proceedings, 2004 **CMMI Distilled** Dennis M. Ahern, Aaron Clouse, Richard Turner, 2001 In our world of seemingly unlimited computing numerous analytical approaches to the estimation of stress strain and displacement including analytical numerical physical and analog techniques have greatly advanced the practice of engineering Combining theory and experimentation computer simulation has emerged as a third path for engineering design and performance evaluation As a result structural engineers working in the practical world of engineering must apply and ideally thrive on these idealizations of science based theories Analyzing the major achievements in the field Understanding Structural Engineering demonstrates how to bring science to engineering design This book illustrates Key conceptual breakthroughs in structural engineering in the twentieth century The science of structural engineering from basic mechanics and computing to the ultimate process of engineering design How engineers implement theory to practice through idealizations and simplifications Current and future trends in structural engineering Developments and advancements in structural engineering hinge on a few key breakthroughs in concepts simplifications and idealizations Simplification inherent

in the art of structural engineering is a key theme throughout this book But the authors go further Their clear explanations of the role and impact of new science based developments shows you how to put them into practice CHI ... Conference Proceedings ,2004 **Software Product Lines** ,2002

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