



# Evaluating Software Architectures



Methods  
and  
Case  
Studies

Paul Clements  
Rick Kazman  
Mark Klein

# Evaluating Software Architectures Methods And Case Studies

**Len Bass,Paul Clements,Rick Kazman**



## **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 in Practice** Len Bass, Paul Clements, Rick Kazman, 2003-04-09 This award winning book substantially updated to reflect the latest developments in the field 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 Drawing on their own extensive experience the authors cover the essential technical topics for designing specifying and validating a system They also emphasize the importance of the business context in which large systems are designed Their aim is to present software architecture in a real world setting reflecting both the opportunities and constraints that companies encounter To that end case studies that describe successful architectures illustrate key points of both technical and organizational discussions Topics new to this edition include Architecture design and analysis including the Architecture Tradeoff Analysis Method ATAM Capturing quality requirements and achieving them through quality scenarios and tactics Using architecture reconstruction to recover undocumented architectures Documenting architectures using the Unified Modeling Language UML New case studies including Web based examples and a wireless Enterprise JavaBeans™ EJB system designed to support wearable computers The financial aspects of architectures including use of the Cost Benefit Analysis Method CBAM to make decisions If you design develop or manage the building of large software systems or plan to do so or if you are interested in acquiring such systems for your corporation or government agency use *Software Architecture in Practice* Second Edition to get up to speed on the current state of software architecture *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

#### *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

#### 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

*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 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, 2005 *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 *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 *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 **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 *Proceedings of the ... European Conference on Software Maintenance and Reengineering*, 2004 *Proceedings*, 2004 **Software Development**, 2003 **Software Engineering: A Practitioner's Approach** Roger S. Pressman, 2010 For over 20 years this has been the best selling guide to software engineering for students and industry professionals alike This seventh edition features a new part four on web engineering which presents a complete engineering approach for the analysis design and testing of web applications

## Unveiling the Power of Verbal Art: An Psychological Sojourn through **Evaluating Software Architectures Methods And Case Studies**

In a global inundated with displays and the cacophony of immediate interaction, the profound power and psychological resonance of verbal artistry usually fade in to obscurity, eclipsed by the continuous onslaught of sound and distractions. Yet, nestled within the lyrical pages of **Evaluating Software Architectures Methods And Case Studies**, a charming perform of fictional elegance that impulses with natural feelings, lies an unique trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, this exciting opus instructions readers on an emotional odyssey, delicately exposing the latent possible and profound affect embedded within the delicate internet of language. Within the heart-wrenching expanse of this evocative evaluation, we can embark upon an introspective exploration of the book is central themes, dissect its charming writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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