Evaluating Software Architectures

Methods and Case Studies

Paul Clements

Rick Kazman

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Evaluating Software Architectures Methods And Case Studies

Albert A Gayle

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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

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