

Title / Titel

Design Metrics for UML Models

Speaker(s) / Referent(s)

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To whom is the presentation addressed? / An wen richtet sich der Beitrag?

Software Project Leaders

Quality Managers

Software Designers

Keywords / Stichwörter

UML Model Quality, Design Metrics, Quality Assurance

Abstract / Zusammenfassung

This experience report describes the metrics that were used to measure and evaluate the UML model for a web application development. The metrics are divided into four classes – quantity metrics, complexity metrics, quality metrics and size metrics. The quantity metrics are simple counts of the design entities and relationships. The complexity metrics measure the relation between entities and relationships in the proposed system architecture. The quality metrics measure the relation between the desired and the actual characteristics of the architecture. The size metrics transform the basic quantities into overall system size measures which can be used to estimate the costs of development and maintenance. The paper summarizes the types of design entities and relationships used in this particular UML model and depicts how they are measured using the UML analysis tool – are presented and evaluated.

UMLAudit. At the end, the measurement results Keywords:

UML, System Design, Design Measurement, Quality, Complexity, UML Metrics

Biography / Biografie

Harry Sneed has been practicing Software Engineering for 40 years. He established the first commercial test factory in Budapest in 1978. He has developed some 20 automated testing tools. He was awarded the Stevens Award for his contribution to the field of Software Maintenance. He is a GI Fellow. Sneed has written 18 books and over 200 articles on software engineering. He teaches at the Universities of Regensburg, Hagenberg, Koblenz and Szeged.

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