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## Fundamentals of Software Architecture (Architectural Thinking) Chapter 2 Review

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### Can Software Architecture Review Methods

This paper presents a review method derived from those adopted by software architects to evaluate competing software architectures. It suggests that the domain of service design shares some significant characteristics with that of software solution architecture, and proposes the adaptation and application of evaluation and review methods that have proved successful in the software solution ...

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Architecture Review Methods Apply To Service Design? | Service design is a relatively new discipline, perhaps considered today to be more art than science. A chosen ...

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Architecture reviews are an effective way of ensuring design quality and addressing architectural concerns. However, the software engineering community rarely adopts the methods and techniques...

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(PDF) Software Architecture Review:  
The State of Practice

Mentioned methodologies do not cover the 360-degree review of the software architecture in particular

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project, but they concentrate on defining the main bottlenecks of the projects and following deliverables:  
Creating the usage attributes tree [drawing 3.4, page 72] with assigning priorities to them - ATAM.

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"Evaluating Software Architectures:  
Methods and Case ...

Can Software Architecture Review  
Methods Apply to Service ... Scenario-  
based evaluations are a dominant  
method for reviewing an architecture  
design which focuses on the  
scenarios that are most important  
from the business perspective, and  
which have the greatest impact on  
the architecture. Following are  
common review methodologies -  
Software ...

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6.1 Architecture Evaluation Methods.  
Software architecture evaluation is the analysis of a system's capability to satisfy the most important stakeholder concerns, based on its large-scale design, or architecture (Clements et al., 2002). On the one hand, the analysis discovers potential risks and areas for improvement; on the other hand, it can raise confidence in the chosen architectural approaches.

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Architecture Evaluation - an overview  
| ScienceDirect Topics  
Software Architecture Analysis  
Method (SAAM) It is originally  
designed for assessing modifiability,

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but later was extended for reviewing architecture with respect to quality attributes. Architecture Tradeoff Analysis Method (ATAM) It is a polished and improved version of SAAM, which reviews architectural decisions with respect to the quality attributes requirements, and how well they satisfy particular quality goals. Active Design Review (ADR)

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## Architecture Techniques - Tutorialspoint

We perform architecture reviews to ensure: The architecture of a system is documented. It provides a coherent description of the system. It is conformant to Customer principles, standards and plans.



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IT Architecture Review: The Basics,  
The Approach, The Outcome  
ATAM: Method for Architecture  
Evaluation August 2000 • Technical  
Report Rick Kazman, Mark H. Klein,  
Paul C. Clements. This report presents  
technical and organizational  
foundations for performing  
architectural analysis, and presents  
the SEI's ATAM, a technique for  
analyzing software architectures.

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## ATAM: Method for Architecture Evaluation

Architecture Review Checklist. ... 0  
Comment. When you are in rush  
trying to reach a certain project  
milestone, you might forget  
important architecture aspects that  
can dramatically influence the  
solution in late project ' s phases. To

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mitigate this risk, I developed a  
architecture checklist that I use to  
validate that all architecture aspects

...

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## Architecture Review Checklist | Adrian Grigoras

international working group on  
Software Architecture Review and  
Assessment (SARA) has taken the  
initiative of publishing a review with  
all existing evaluation methods. This  
paper is intended as a contribution to  
this review. The analysis is performed  
in accordance with the requirements  
specified in the SARA report [8].

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## Scenario-Based Software Architecture Evaluation Methods ...

Software Architecture Lab. 10 Two

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Phase Review Process— Phase 1  
Initial Peer Review (during planning  
sprint) AAS is a summary of the main  
principles of proposed architecture.  
AAS is generated from the AAS tool

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## Architecture Review in Agile Development

Some of the available software  
architecture evaluation techniques  
include Architecture Tradeoff Analysis  
Method (ATAM) and TARA.  
Frameworks for comparing the  
techniques are discussed in  
frameworks such as SARA Report and  
Architecture Reviews: Practice and  
Experience.

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Software architecture - Wikipedia  
Partly motivated by this reasoning, a

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new software architecture evaluation method called DCAR was proposed in [21]. DCAR uses architectural decisions as the basic concept in the architecture evaluation. Another central concept in DCAR is a decision force—that is, any fact or viewpoint that has pushed the decision in a certain direction [31]. Forces can be requirements, or existing decisions (e.g., technology choices, previous experiences, political or economical considerations, etc.).

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Software Architecture - an overview | ScienceDirect Topics

A software architecture is a set of concepts and design decisions about structure and texture of software that must be made prior to concurrent engineering (i.e., implementation) to

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enable effective satisfaction of architecturally significant, explicit functional and quality requirements, along with implicit requirements of the problem and the solution domains.

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## Architecture Review Process - GitHub Pages

Expert in software design, including diverse methods and approaches such as object-oriented design, event-driven design, etc. Lead the development team and coordinate the development efforts for the integrity of the design. Should be able to review design proposals and tradeoff among themselves.

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## Introduction - Tutorials Point

Software architecture evaluation methods can be divided into four main categories, i.e., experience-based, simulation-based, mathematical modeling based. Methods in the categories can be used independently but also be combined to evaluate different aspects of software architecture, if needed.

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### COMPARISON OF SOFTWARE ARCHITECTURE EVALUATION METHODS FOR ...

Software Architecture Analysis Method (SAAM) Active Reviews for Intermediate Designs (ARID) Detailed case studies demonstrate the value and practical application of these methods to real-world systems, and

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sidebars throughout the book provide interesting background and hands-on tips from the trenches. All software engineers should know how to carry out software architecture evaluations.

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## Evaluating Software Architectures: Methods and Case ...

The book *Evaluating Software Architectures: Methods and Case Studies* covers the software architecture evaluation topic in detail focusing on evaluation frameworks like Architecture Tradeoff...

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