# Universität des Saarlandes

Fakultät 6 – Fachrichtung 6.2 – Informatik

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## Architectural Thinking for Intelligent Systems, WS 2019

## Assignment 11

### Task Description for Lecture A12: Architecture Tradeoff Analysis Method ATAM

Our architecture has been developed to such a level of detail that we can think about a first evaluation based on the ATAM method.

1) Think about the ATAM evaluation team. Who would you like to have on the team? What insights can each team member contribute?

2) Review the scenarios that you created in Assignment 5 and review/refine these scenarios if necessary. Pay specific attention to stimuli and response measures.

3) Develop a utility tree with at least 3-5 quality attributes based on the scenarios. Attach weights to the attributes. Has your understanding about the priority of the expected system qualities evolved or changed when compared to your answers given in Assignment 5?

4) Identify any risks that you see in the architecture. Which architectural decision is responsible for this risk? Why can there be a potential negative impact on a quality attribute? How could a potential risk mitigation plan look like?

5) Do you see a sensitivity point in the architecture? Which of your architectural decisions affects most of the quality attributes?

6) Is there a tradeoff (compromise) that you had to make? Which constraints and forces have led to this tradeoff?

**Submission**

Instructions can be found in slide deck A1-BasicConcepts and on the course website.