Universität des Saarlandes

Fakultät 6 – Fachrichtung 6.2 – Informatik

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Architectural Thinking for Intelligent Systems, WS 2019

Assignment 10

Task Description for Lecture A11: Architectural Pattern for Enterprise Application Integration

We take decisions about the application of specific EAI pattern in the architecture to integrate subsystems and components. We discuss the advantages and disadvantages of a specific pattern in the context of our system architecture and develop the rationale for the decisions.

1) Think about the couplings that you need internally in your system and to connect the system to its environment. What are the key quality attributes these couplings need to meet?

2) Use the views you created in Assignment 9 and annotate them with the EAI pattern(s) that is best suited to achieve the desired coupling quality attribute. Give an argument why a specific EAI pattern is the best choice. Base the argument among others on properties of the data and the desired communication quality that you need to achieve.

3) Is there a difference in the EAI pattern selected for the communication between the internal system components and those for the external interfaces with the environmental systems? Why or why not?

4) Think about a potential further evolution of the system. Do you see a possible change in the EAI pattern between selected components or to the environment?

Submission

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