Universität des Saarlandes

Fakultät 6 – Fachrichtung 6.2 – Informatik

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Architectural Thinking for Intelligent Systems, WS 2019

Assignment 4

Task Description for Lecture 5: System Functionality

We dive deeper into the functional requirements our system has to meet and formulate user stories and use cases. We analyze functional dependencies by creating a goal hierarchy. Remember to make your requirements SMART.

1) Formulate 3 high-level user stories including an acceptance test.
2) Check each story based on the INVEST acronym and summarize your considerations.
3) How do you ensure that the acceptance test is measurable?
4) Think about how you will implement the requirement described by the user story. Write a tentative version of the corresponding use case.
5) Disassemble each story as described on slide 24 of slide deck A5 and create one goal hierarchy showing potential dependencies between and inside the use cases.
6) Assign a color level to each goal as proposed by Cockburn. Make sure you use all color levels. If you find that that this is not possible, revise your user story and use case (was it high level enough? Did your use case show enough detail?) and refine your goal hierarchy from white down to indigo or even black (technical details at the “shell” level).

Submission

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