Middleware Paper Discussion 2





Winter Term 2014/2015

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Components versus Services

04.11.2014

Download (http://www.dvs.tu-darmstadt.de/teaching/cs/material/papers/Elfatatry_Components.pdf) and read the paper "Dealing with Change: Components versus Services" by Ahmed Elfatatry (Communications of the ACM, August 2007/Vol.50 No.8).

Answer the following questions:

- 1. According to the paper, what is a component and what is a service?
- 2. What is the primary goal of component-based development?
- 3. Which obstacles are mentioned to achieve this goal?
- 4. How do component-based approaches support business agility?
- 5. How do service-based approaches support business agility?
- 6. Why did components and services come up in the first place? Isn't OOP enough?
- 7. Which advantages do services have over components?
- 8. The conclusion states that services are "a better solution to change". What is the cost to these advantages?
- 9. How does a programmer know which service/component to pick for use?
- 10. Which kind of flexibility do components support? Which one do services support?

Hand in one to two pages **on paper** at the beginning of the exercise session on **Nov 25**. Group submissions are not allowed, however we encourage discussing your answers with fellow students. Don't forget to put name and student ID on your submission.

Last update: 04.11.2014 18:14