

Component-Based Software Engineering Dipl.-Inf. Florian Heidenreich Office Hours: Wednesdays, 1430–1530 hours INF 2080 http://st.inf.tu-dresden.de/teaching/cbse	Exercise Sheet No. 7 Software Technology Group Institute for Software and Multimedia Technology Department of Computer Science Technische Universität Dresden 01062 Dresden
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Composition Filters

Task 1: Composition Filters with Reflection

Download and read [1]. In this task we are going to realise a simple implementation of composition filters as a Java framework.

1a)

From [1], what are the basic concepts of Composition Filters? How are they related? Draw an analysis class diagram.

1b)

Study the documentation on the `java.lang.reflect.Proxy` class and find a design how this class can be used to implement composition filters for incoming messages. What problems need to be solved?

1c)

Implement your solution.

Bibliography

1. Lodewijk Bergmans, Mehmet Aksit: *Principles and Design Rationale of Composition Filters*. In R. Filman, T. Elrad, S. Clarke, and M. Aksit eds.: *Aspect-Oriented Software Development*. Addison-Wesley, 2004.
URL: http://trese.cs.utwente.nl/publications/publications.php?action=showPublication&pub_id=169.