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Java Enterprise Edition and Design Patterns

Exercise 8 – The Course Manager

For the rest of the JEE exercises you will realize a bigger enterprise application. The system you will plan and develop in groups, will be used to manage students, courses, groups and deliverables. Your system has to fulfill the following tasks:

- Manage student data including pcn, firstname, lastname, email and cohort
- Manage course data including id, name, description, tutor
- Manage group lists of students
- Manage deliverables, e.g. source code and PDFs

There will be two different kinds of clients. First a webclient for students to attend to courses, take part in groups and deliver documents. And second a Java Swing client for the tutor to view and manage the data and work with the deliverables.

In the last exercise you had to implement a part of your application including the session facade bean(s). In these Session Bean(s) you should have implemented a login functionality.

In the last lesson you learned how to use **interceptors** for authorization purposes.

- 1) What are interceptors? How do they work? What can they be used for?
- 2) Adopt the interceptors solution for the authorization mechanisms in your application.
- 3) Extend the interceptor from exercise 2 to do some basic logging. Thus print out the **methodname** **and the parameters** that are invoked on your bean. If you keep a reference to the login entity of the person, who is logged in, print out the name of that person, too.

Your deliverables for this exercise are the answers to the questions, the revised class diagram and the source code of your implementations.

Have fun!