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Adapter

- mail server adapter for external third party mailing client (e. g. Google, Seznam)
- we want an adapter which would provide client services through the common mailing interface used for IS mailing users can interact with emails in the same way as it they were received in IS
- adapter can on background make some external network calls (e. g. REST) to the third party mailing client
- document server adapter for third party storage providers
 - cloud storage, external hard-drives used as common IS documents through common interface
 - user can use IS document server to access external storage service

Strategy

- salaries types of agreements
- different types of agreement we use the same algorithm for the salary computation but the final value is derived by the type of agreement like for instance hour salary, month salary...
- schedules different scheduling algorithms for time management and planning
 - we can use different strategies for course collisions, room planning...
- -automatic course registration different behaviors depending on student selection
 - automatically remove courses which cannot be registered
 - automatically sent a apply for exception to the teacher
 - automatically register mandatory subject for the student field of study

Observer

- discussions dynamic updates for replies, Noticeboard in IS
 - * Our subject is track discussion forum (where notification is allowed).
 - * Observers We can track discussion forum in Favourite Discussion Groups (we get notification from the publisher) or we can subscribe to changes via RSS.
- schedule automatic update after course(seminar) registration/deregistration,
 - * Subject is courses registration list.
 - * Observers are:
 - * timetable responds to changes in courses registration list
 - * Check my studies question mark = registered course red cross = unregistered course
- automatic notebook points after scanning of test
 - * Subject is scanning test.
 - * Observers: Points from the test are available in notebooks and in ROPOT Applications.

Composite

- We want to show the object hierarchy.
 - * Component declare interface for his sons and Clients
 - * Composite store the reference to his children. Implemented operation for work with children.

- We can use for scheduling -> semester -> week -> day -> teaching period Composite is semester -> week, etc.
- We can use for user structure -> Faculty -> Field -> Course -> Student
- We can use for user structure document server folders → subfolders → concrete documents.