

Object Oriented Architectures and Secure Development

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File IO - Lab

Find your jBamaflex-exercise from two weeks ago and verify that it still runs.

Find the service-layer and identify the data-part: extract the data-part to a separate layer. This will result in the creation of one (or two) *in-memory* repositories.

Prepare your application for the implementation of another version of this/these repositories.

Students

Define a file format for storing your students. Now create a new student-repo implementation that uses this file format.

Courses

Define a file format for storing your courses and their students with their grades. Now create a new course-repo implementation that uses this file format.

Watch out: this is more complex than what we have been demoing until now: the courses-repo (might) need(s) information about students as well.

Hint: If your student/course-repos are two separate classes, then the course-repo needs an instance of the student-repo to do its job. Further, your implementation might benefit from another method to find students by id or email.

Extra:

Define a database table for storing your students. Now create a new student-repo implementation that uses this database table.

2.4. Tips

- Apply the various techniques studied during the classes.
- There isn't one "single solution". Make sure you can motivate your choices.
- It is your software, take ownership.