

Technical University of Denmark DTU Informatics Assoc. Prof. H. Baumeister Spring 2017 Prog. Assignment Nr. 2 January 29, 2017

02161: Software Engineering 1

2.1 Library Application (cont.): Registering a user

This and the next exercise continue the exercises from last week and are defined in the same spirit: You are provided with a set of tests that you have to implement on top of the implementation and tests from last week. The following is the scenario for the registration of a user:

- A user is registered with the library application with his CPR number, name, e-mail and address (which consists of street, post number, and town). A user can only registered by the administrator when he is logged in. The following describes the interaction with the system
 - 1. Administrator logs in by providing the admin password
 - 2. A new user and a new address with the appropriate fields are created
 - 3. The administrator registers the user to the library.
- If the administrator is not logged in, e.g., because the password was wrong, or because he skipped the log in step, then an exception should be thrown when calling register user.
- Implement register user
 - a) Download the library projects zip file from http://www2.imm.dtu.dk/courses/ 02161/2015/files/library02.zip. Note, that it also includes the tests from last week.
 - b) Import the zip file as an Eclipse project.
 - c) Copy the contents of your library01 src directory to the library02 src directory.
 - c) Implement the missing classes and methods, such that all tests in TestRegisterUser run successfully.
 - Do this by removing one by one the comments on the methods with the @Test annotation. Uncomment only one non working test at a time.

2.2 Library Application (cont.): Implement borrow book and return book

- Implement the functionality for borrowing a book, and returning a book. A book can't be borrowed if a user has already borrowed 10 books.
- a) Uncomment and implement the test cases in TestBorrowBook
- b) Uncomment and implement the test cases in TestReturnBook