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