

Marked Lab: Java Application

This lab must be prepared in teams of 2 to 3 students and submitted on Campus. You can check the due date in the submission area.

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1 Work to Do

You have to develop in Java a booking application that stores its data in a relational database. More specifically, you must implement the `.DataAccess` class, which encapsulates the database by providing high-level access methods.

The template of the `.DataAccess` class and the test programs are provided as a NetBeans¹ project. You have to develop the body of the `.DataAccess` constructors and the `.DataAccess` methods according to the specifications given in the Javadoc, here: <dist/javadoc/index.html>.

If you have a question regarding the lab, please post it on the Questions & Answers forum. I will not reply to emails sent to my email address. Thank you.

2 Beware

I will test your `.DataAccess` class by running test programs of my own, e.g. `test.DataStoreInit`, `test.SingleUserTest` and `test.MultiUserTest`. The MySQL server and the database schema I will use to store your data are not specified.

Therefore, you must read the Javadoc specifications carefully and follow them strictly. Also, you must not: (1) alter the interface of the constructor and the methods of the `.DataAccess` class, including the exceptions in the throws clause, (2) hard code in any way the url, login or password required to connect to the database, (3) use the `drop database...` and `create database...` SQL statements in your code. If you fail to follow these instructions, my test programs will not compile or they will not run correctly.

¹ you may use another IDE for the lab since the only deliverable is the `.DataAccess.java` file

3 Marking Scheme

The tentative marking scheme is as follows.

Item	Marks
Single User Tests	12
Multi User Management	4
Code Performance	2
Code Quality	2
<i>Total</i>	<i>20</i>

4 Submission

4.1 Deliverable

The deliverable consists of the file `DataAccess.java` alone. Please note that since you do not submit the files `Booking.java` and `DataAccessException.java`, **you must not modify these files** for your application to work.

In order to identify the team members, you have to put the deliverable into an archive file named `LASTNAME1.FirstName1.LASTNAME2.FirstName2.LASTNAME3.FirstName3.zip` or `.rar` **without any space character**. The deliverable must be the only element in the archive, without any intermediate directory.

4.2 Submitting

Drop your archive into the submission area, **only once per team**. You may submit it again as often as you wish until the deadline, provided you **always do so under the same Campus user**.