22S-CST8288 Case Study – Part 2 (15% of grade)

Overview

- Second part of the prototype for tutoring application
- You will not have enough time to fully develop the system, the intention is to give you the opportunity to apply concepts introduced in this course.
- Part 2 focuses on the DAO pattern and servlets.

Project Description

- You are provided with a Entity-Relation Diagram (ERD)
- Your tasks are to:
 - implement the DAO pattern corresponding a table/entity
 - o implement a servlet that uses the DAO
 - o create a Web page to launch the servlet
 - Those working in pairs have additional tasks/deliverables.

Deliverables required for the Case Study 2

- This is a "group" assignment. The groups used for the first case study can be re-used.
 - o BrightSpace will only display the submission link if you are in a group.
 - o Even if you intend to work alone, you *must* be in a group (a group of size 1).
 - Those working in pairs have additional deliverables. See items marked "For Pairs:"
- Your application must be implement the following as Java packages:
 - businesslayer
 - o dataaccesslayer (including an class to encapsulate the "data source")
 - o transferobjects
 - viewlayer
- You may reuse the System Description from Part 1
- Your application must:
 - use MySQL SQL scripts are provided
 - use ResultSet
 - implement the DAO pattern corresponding to the course table
 - For Pairs: implement the DAO pattern corresponding to the student table
 - o create a servlet:
 - that uses the DAO implementation and
 - outputs the contents of the course table as an HTML table

- For Pairs: also outputs the contents of the **student** table as an HTML table
- Notes:
 - only need to implement the "R" in "CRUD" (i.e. the getAll___ method)
 - you may implement these features using multiple servlets if you wish
- o provide a Web page to launch the servlet
 - initial Web page must prompt the end-user to enter the *userid* and *password* needed to authenticate to the MySQL database.
 - For Pairs: also include an HTML form control that permits the end-user to select either the course or the student for output
- follow Java coding conventions
- have Javadoc comments
- o (for full marks) code submitted must be in the form of NetBeans project and
 - exported as a .zip and name your file Lastname.Firstname.Project2.zip
 - name your project Lastname.Firstname.Project2
 - (using your names, of course)