Learning Management System

Develop an information system to record information about students, courses, registrations, attendance and marks. The system holds data for multiple semesters.

Each course has multiple sections. Students can add/drop a course only during the registration period. Similarly the students cannot withdraw a course after the deadline.

A teacher may teach multiple sections of different courses. She can record attendance of her students, and can enter marks and grades. She can set the evaluation criteria, including the number and type of evaluations along with weights.

A student can view her transcript containing information about all the semesters of her degree. The transcript describes information about the student, courses, grades, SGPA and CGPA.

If a section is full and a student is interested to register, she can subscribe and the system shall notify her when any seat becomes available.

A user can perform a transaction only if she has the required privilege. Besides the students and the teachers, there are academic officers who enter information about basic entities such as courses, sections, students and teachers. Also these officers open and close registration, and set a deadline for withdrawal.

Dear students,

Your next assignment is to implement the Learning Management System using Java, Netbeans and MySQL. You do not need to provide the CRUD (create, read, update and delete) operations for basic entities, such as Student, Teacher, Course and Section. However, you need to provide all other non-trivial features. For testing purposes, you can add some data directly in the relevant tables.

In particular you need to provide the following services:

Student can add/drop a course during the registration period. Similarly she can withdraw a course before the deadline. She can view list of offered courses, and sections of a course. She can also view her attendance or transcript at any time. If a section is full she can ask the system to notify whenever a seat becomes available.

A teacher can add attendance. She can add evaluations for her course, and later can assign marks to students for each evaluation. The system shall be able to display a marks sheet for a class containing a marks-total for each student. The teacher can assign grades in this marks sheet.

That's all Folks!

Good luck! Aamir Raheem