

Project1 -- CSCI 520 2014 Spring

Implement a University Registration System in Java using JDBC (or you can use other programming languages and/or ODBC).

Database users:

- Staff: These users can add and delete courses and students, and register and drop courses for students. At the end of the semester, grades should be uploaded.

The database schema is given in the file createtables.sql.

The following real-world constraints need to be enforced by your program:

- Students cannot register for a class twice for the same year and semester.
- If a course is deleted, all registrations of that course need to be deleted too. (delete from registration table first, then delete it from the course table.)
- If a student is deleted from the system, all registrations of that student need to be deleted too. (delete from registration table first, then delete it from the student table.)

The Java application will be a terminal-based program that has the following interactions with the users.

If you use GUI, you should have same menu options.

Menu:

```
*****
***                                     ***
***      Welcome to Online Registration System      ***
***                                     ***
*****

1. Add a course
2. Delete a course
3. Add a student
4. Delete a student
5. Register a course
6. Drop a course
7. Check student registration
8. Upload grades
9. Check grade
10. Quit
```

Note:

Delete a course by giving a course code

Delete a student by giving a student SSN

Drop a course by giving code, SSN, year, semester

Check a student's registration by giving either student name or student SSN

Upload grades by giving code, year, semester (then input grades for every student who registers the course)

Check grade by giving code, student SSN or student name, year, semester