CS162 - Programming Techniques — Final project — Student management system

Class: 19APCS1-2, 19CLC1-2-5-7-9-10

Use-cases

- All roles
 - 1. Login
 - 2. Show menu
 - 3. View profile info
 - 4. Change password
 - 5. Logout
- Academic staff

Class

- 6. Import students of a class such as 18CLC6 from a csv file.
 - The csv file should include columns such as No (1), Student ID (18125001), Lastname (Nguyen Van), Firstname (A), Gender (Male), DoB (2000-04-01).
 - Remember to create student accounts based on their Student ID and their DoB.
- 7. Manually add a new student to a class.
 - For example, there is a new student enrolled in 18CLC6.
 - Remember to create a student account based on his/her Student ID and their DoB.
- 8. Edit an existing student.
- 9. Remove a student.
- 10. Change students from class A to class B
- 11. View list of classes.
- 12. View list of students in a class.

Course

- 13. Create / update / delete / view academic years (2018-2019), and semesters (Fall).
- 14. From a semester, import courses such as CTT008, CTT010 from a csv file.
 - The csv file should include columns such as No (1), Course ID (CTT008), Course Name (Programming Techniques), Class (18CLC6), LecturerAccount (nhminh), Start Date (2019-01-07), End Date (2019-04-13), Day of Week (Wed), Start Hour:Minute (08:00), and End Hour:Minute (11:00), Room (I33).
 - By default, all students in the mentioned classes will be enrolled to imported courses.
- 15. Manually add a new course.
- 16. Edit an existing course.
- 17. Remove a course.
- 18. Remove a specific student from a course.

- For example, by default all students of 18CLC are enrolled in course CTT008, but because of a private reason, student Nguyen Van A is dropped from CTT008.
- 19. Add a specific student to a course.
 - For example, student 1753001 enrolls in CTT008 to improve his previous result.
- 20. View list of courses in the current semester.
- 21. View list of students of a course.
- 22. View attendance list of a course.
- 23. Create / update / delete / view all lecturers.

Scoreboard:

- 24. Search and view the scoreboard of a course.
- 25. Export a scoreboard to a csv file.

Attendance list:

- 26. Search and view attendance list of a course.
- 27. Export a attendance list to a csv file.

• Lecturer:

- 28. View list of courses in the current semester.
- 29. View list of students of a course.
- 30. View attendance list of a course.
- 31. Edit an attendance.
- 32. Import scoreboard of a course (midterm, final, lab, bonus) from a csv file.
- 33. Edit grade of a student
- 34. View a scoreboard

• Student:

- 35. Check-in.
- 36. View check-in result.
- 37. View schedules.
- 38. View his/her scores of a course.

Requirements

- Menu
- Data must be stored in file. You can define your own format but it must store all the information as described above. Be sure that, if I delete a csv file after importing, there is no harm to your system.
- Hash password (optional). Tip: SHA1, SHA256...