CTT008/CS162 Final project – Student management system

Class: 18APCS1-2-3, 18CLC1-2-3-4-6

Use-cases:

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

  <u>**Class:**</u>
    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.

  <u>**Courses:**</u>

    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.

Don't need to do. It's not real!! 23. Create / update / delete / view all lecturers.

Scoreboard:
24. Search and view scoreboard of a course.

Don't need to do. 25. Export a scoreboard to a csv file.

Attendance list:
26. Search and view attendance list of a course.

Don't need to do. 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 describe 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…