CTT008/CS162 Final project – Student management system

Class: 16CLC1, 16CLC2, 16CTT

Use-cases:

- All roles:
 - Login
 - Show menu
 - Logout/Exit
- Academic staff:
 - o Import courses
 - Import student lists
 - o Import schedules
 - Export scores of student or course
 - o Export lists of student who was present or absent in class
- Lecturer:
 - Import scores
- Student:
 - Check-in class

Data structures:

- User:
 - Username
 - If user is a student, username is student ID
 - If user is a academic staff or lecturer, username is short name. Eg: htthanh, tploc, ltathao...
 - o Full name
 - o Email
 - o Mobile phone
 - o Type:
 - 0 Student
 - 1 Academic staff
 - 2 Lecturer
 - Password
 - o Class (if applicable). Eg: 16CLC1, 16CLC2, 16CTT
- Course:
 - o Course code. Eg: CTT008, CS161
 - o Year. Eg: 2016-2017
 - o Semester. Eg: 1, 2, 3
 - o Course name
 - Lecturer username
 - Start at (date)
 - End at (date)
 - o From (time)

- o To (time)
- o Date of week. Eg: Monday, Tuesday...

• Presence:

- Course code
- Year
- o Semester
- Student ID
- Week

• Score:

- Course code
- Year
- Semester
- o Student ID
- o Midterm score
- o Lab score
- o Final score

Requirements

- Data must be stored in file. You can define your own format but it must store all the information as describe above.
- Data can be stored in SQLite database instead of file (optional).
- Hash password (optional). Tip: SHA1, SHA256...