

Description:

In this task, you will implement a simple Learning Management System “e.g. Blackboard, Canvas, ...” in C++ using Qt framework “A popular GUI framework in both C++ and Python”.

Features:

The program is an admin dashboard, your program should be able to do the following:

- Add a login screen
- Add new student(s)
- Add new professor(s)
- Add Professor(s) to a class
- Add Student(s) to a class
- An admin can show the Student profile
 - Basic Info
 - First Name
 - Last Name
 - Age
 - Mobile
 - Email
 - Grade
 - The registered classes and their grades.
- An admin can show the Professor profile “same as students, instead of grade you can add title”
- An admin can show the class Profile
 - Basic Info
 - Name
 - Code
 - Lecture Hall
 - Time
 - Professor(s)
 - Student(s) Name “First and Last name concatenated” alongside their grades “see schematic below”
 - Clicking on a student name should show the student profile, or a small tooltip containing its information
- An admin can search by class/student/professor
- Export the class/student/professor info to a csv file
- Import the class/student/professor info from a csv file “same structure as the exported file” **“Bonus”**
- Add Filter functionality for each table **“Bonus”**
- Draw the at least 4 different UML diagrams for the project
- Use Doxygen to generate the project documentation

- Any additional features shall be granted a bonus

You don't need to implement a database, generate objects on the fly to use them when testing your program

General Notes

- This is a group based assignment (Max Number : 6).
- The due date for the submission of this phase is Sunday, 31/12/2022 at 11:59 pm.
- Your code should be clear, understandable, and documented (commented) and follow a consistent naming convention for variables and functions.
- You are permitted to discuss the following problems with others in the class. However,
- you must write up your own solutions to these problems. Any indication to the contrary will be considered an act of academic dishonesty.

Class: ABC

Professrs: Prof A & Prof B

Lecture Hall: 3201

Time: 1:00 PM - 3:00 PM

Name	Grade