

VIETNAM NATIONAL UNIVERSITY, HO CHI MINH CITY
BACHKHOA UNIVERSITY
COMPUTER SCIENCE AND ENGINEERING



PROGRAMMING TECHNIQUES

Assignment

University Management Program

Ho Chi Minh City, April 2018



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1 Goal

This assignment helps students understand the basic concepts of C / C ++: struct, class, reading, writing and advanced programming.

2 Main Activity (8 points)

2.1 Login - Logout (2 points)

2.1.1 There are 3 types of users : (1 point)

Administrator.
Professor.
Student.

2.1.2 When login failed, user can log in again. (.5 point)

2.1.3 Each user can logout (.5 point)

2.2 Administrator (1 point)

2.2.1 Add-Delete professor and student (.5 point)

Find all user in system.
Add professor or student.
Remove professor or student.
Hint: when creating user, admin create password like with user name.

2.2.2 Change password (.5 point)

Change Administrator's password.

2.3 Professor (2 points)

2.3.1 Change password (.5 point)

2.3.2 Open course (.5 point)

Each Professor can open up to 5 courses per semester.

2.3.3 Summarize students' scores with each opened course (.5 point)

2.3.4 Modify student scores with each opened courses (.5 point)

System save every modified point.

2.4 Student (3 points)

2.4.1 Change password (.5 point)

2.4.2 Register course - Un-course (1 point)

Each students have allowed to register maximum 20 credit in 1 semester.



2.4.3 View profile (1.5 point)

View GPA.

(0.5 point) View registered courses.

(0.5 point) View course during the semester. (0.5 point)

3 Functional Accessory (2 points)

3.1 Search by name (1 point)

Administrators can find many users with the same keyword by name, phone number, address.
Students can find many courses with the same keyword by name.

3.2 Delete by name (1 point)

After search user by name Administrators can delete user.

4 Report (2 points)