UNIVERSITY OF SCIENCE
FACULTY OF INFORMATION TECHNOLOGY

MOODLE PROJECT CS162
CLASS: 21APCS2

GROUP 4

CS162

FINAL PROJECT

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GROUP 4 - REPORT
INTRODUCTION TO COMPUTER SCIENCE CS162

Thành viên

21125041 - Đặng Hoàng Nhật Hưng

21125142 - Võ Quang Trường

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21125126 - Võ Trần Hà Nguyên

1 Tasks

1.1 Đặng Hoàng Nhật Hưng

- Initialize project: create git commit

- Create project's subfiles

- Initialize structs.

- Implement functions to input schoolyears and corresponding courses from database.

- Implement functions to output schoolyears and corresponding courses to database.

- Implement function for student to register a course.

- Implement function for staff to update a specific course's information.

- Implement functions to input all information from database, using previous input functions.

- Implement functions to output all information to database, using previous output functions.

- Create and structure a few database for testing.

- Implement additional function to get the current date.

- Implement additional searching tool for class.

- Implement function to view a specific list of students' details

- Create GUI's interface.

1.2 Võ Trần Hà Nguyên

- Create and structure full database for testing.

- Implement function for staffs to add new schoolyears.

- Implement function for staffs to add new semesters to a schoolyear.

- Implement function for staffs to add new courses to a course. corresponding semesters, and corresponding courses.

- Implement function to view a specific scoreboard.

- Implement function to output students' details to database.

- Implement function to input students' details from database.

- Implement function to output lecturers' details to database.

- Implement function to input lecturers' details from database.

1.3   Võ Quang Trường

- Implement functions to input scoreboard' details from database.

- Implement functions to output scoreboard' details to database.

- Implement functions to input staffs' details from database.

- Implement functions to output staffs' details to database.

- Implement function to view a specific course's details.

- Implement function for login session and account-related stuffs.

- Implement function to find a specific account, included in the account's struct.

- Create console's interface and fix bugs in terms of console's interface.

- Create main menu and add functions for staffs.

- Create main menu and add functions for students.

- Implement function to change password of the current account.

- Implement functions to view students' details of a specific course or class.

- In charge of formatting report in LATEX.

1.4   Nguyễn Ngọc Long

- Implement functions to input accounts' details from database.

- Implement functions to output accounts' details to database.

- Add additional functions to input date structure.

- Add additional functions to output date structure.

- Implement additional function to view date (format dd/mm/yyyy).

- Implement function to view a specific account's details.

- Implement function to view a specific list of classes' details.

- Implement function to update a specific scoreboard's details in terms of scores.
- Implement function for students to delete one of their enrolled course.
- Implement function to view a specific course's list of scoreboards' details.
- Implement functions to add a new scoreboard, and update a specific student scoreboard. Create additional searching tools.
- Implement function to export scoreboards' details of a specific course to a CSV file.
- Implement function to import scoreboards' details of a specific course from a CSV file.
- Implement function to input first year students' details from a CSV file.
- Optimize functions for console's interface uses and fix bugs in terms of functions.
- Compile report.

2   Guide

2.1   STAFF

- Administrator's account:

    – Username: admin

    – Password: 123456

- The admin account will allow administrator to enter other staffs' data and give them access.

- Staffs' accounts will have a default password of 123456.

- Move the mouse cursor to the upper-right corner, and click "Change password" to enter the password changing session:

- Enter the current password, enter new password, re-enter new password, and click "Change" to successfully change password. User is then turned back to the login session.

- For the first time the program is used, new school years have to be created for adding students' data, as well as giving them access. New school year is created as follow:

– Choose New... → School Year → Enter starting and ending years into corresponding sessions → Add classes by entering class ID in "Add Class" session, press enter or choose Add Class to save data.

– Choose a class on the list for adding corresponding students' information, which is done as follow:

  * **Manual input:** Enter each student's information into corresponding sessions and choose Add.
  * **File input:** Choose From File... → Browse to and choose the CSV file storing corresponding information.
  * User can view the list of students in a class by clicking the plus sign next to the corresponding class.
  * User can then change the students' information by clicking on the corresponding student, entering new information, and choosing Change. A student's class can also be changed by adding a new class in this session..

• **Add a new semester: choose New... → Semester:**

  – Enter semester → Enter year, starting and ending dates → Enter courses' information and choose Add for saving each course.

  – Course's information can also be changed in this session by choosing the corresponding course ID in the list.

  – Choose Done to save all information to the system.

• **Update courses' information:**

  – All courses' information will be shown in this session.

  – Choose the corresponding course ID to enter the course's updating session.

  – Choose Save to save all information to the system. Otherwise, choose Revert Changes to remove all the updates.

  – Choose Delete Course to delete the current course.

• **Export scoreboards from CSV file:**

  – Choose Import Scoreboard.

- Choose Open. . . for browsing to and choosing CSV file storing scoreboards' information.

- Choose the corresponding course from the list.

- Choose Import.

- **Update students' result:**

  - Choose Update Student Result

  - A list of students will be shown by classes. Choose a class and its corresponding student, or enter student ID and click Search to enter the changing session.

  - Pick a course and change the corresponding result.

  - Choose Save to save all information to the system.

- For the functions of viewing information, enter the corresponding course ID or class ID of which user wants to view.

2.2 STUDENT

- Login to the system using the provided account.

- Move the mouse cursor to the upper-right corner, and click "Change password" to enter the password changing session:

  - Enter the current password, enter new password, re-enter new password, and click "Change" to successfully change password. User is then turned back to the login session.

- **To get enrolled in a course:**

  - Choose Course Registration

  - A list of available courses will be shown in the left column (including enrolled courses)

  - Choose the corresponding course's name → Check for the course's details and choose Register to enroll in that course. The system will inform whether the course has been successfully registered or not by checking if the course

overlaps the enrolled courses, or if the number of currently-enrolled courses have reached the maximum of 5.

- **For unregistering a course, choose the corresponding course and simply click Unregister.**

- **Of course, both registering and unregistering must be done in the time when a course registration session is active.**

- THE END -