



Workflow of the program

At the start of the program, the user is being displayed the main menu

1. Administrator
2. Student
3. Serialization
4. Deserialization
5. Exit

D. If the user is a student

1. Log in with username and check if password is correct.

2. Display menu:
1. View all courses → display all courses
 2. View all courses that are not full → display all courses that's not full
 3. Register on a course → ask for course ID, register the student to a course
 4. Withdraw from a course → ask for course ID, withdraw the student from a course
 5. View all courses that the current student is being registered in → display all enrolled courses
 6. Return to the main menu → return to the main menu.

E. If the user is an administrator

1. Ask for username & password

Password is correct ("Administrator") → continue the program

Incorrect → exit the program

2. Display menu:

1. View all courses → display all courses
2. View all courses that are full → display all courses that's full
3. Write to a file the list of courses that are full → write to a file all full courses
4. View the names of the students registered in a specific course → ask for course id & display names of student
5. View the list of courses that a given student is being registered → ask for student id & display courses info
6. Sort courses based on the number of current students enrolled → sort courses
7. Return to the main menu → return to the main menu
8. Add a new student → ask for first & last name, student-id, Add a student
9. Create a new course
10. Delete a course
11. Display information for a given course.

F. If the user chooses option 3 serialization

Serialize the student directory to "student.ser"

Serialize the course directory to "course.ser"

G. If the user chooses option 4 deserialization

Deserialize the student directory

Deserialize the course directory