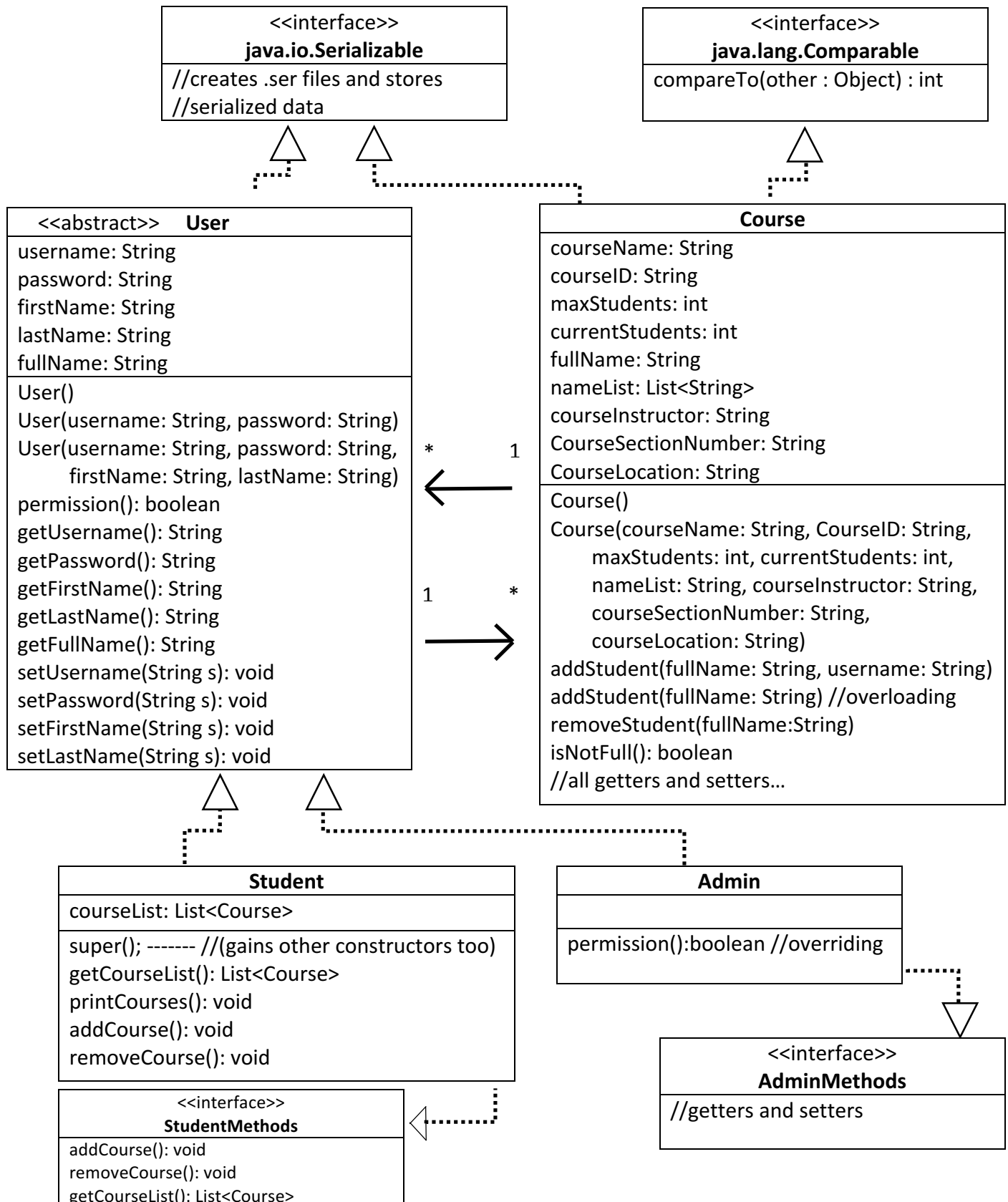


UML Diagram:



Workflow:

(main method –

both ArrayLists are initialized (courseList and studentList)

if .ser file does not exist, import from CSV. Otherwise, de-serialize)

- Display asks for login – username and password
 - Determines Admin or Student
- If Admin:
 - Go to MainMenuAdmin
 - **10 input options (switch function):**

5 course management:

- createCourse();
 - creates a new course object based on inputted parameters
 - added to courseList;
- deleteCourse();
 - deletes a course object in courseList;
- editCourse();
 - 6 options on how to edit a course object
 - Change:
 - maxStudents; courseInstructor;
 - courseSectionNumber; courseLocation;
 - Add/Remove Students from Course
- displayCourseInfo();
 - displays parameters for given course, based on courseID
- createStudent();
 - creates new Student object based on inputted parameters
 - added to studentList;

5 reports:

- View All Courses
- View All Full Courses
 - Writes to FullCourseList.txt
- View the Student list for a specific Course
- View the Course list for a specific Student
- Sort the Course list by currentNumber of Students
 - (using Comparable interface)

AFTER FUNCTION IS COMPLETED, GOES BACK TO MainMenuADMIN.

- If Student:
 - Go to MainMenuStudent
 - **5 input options (switch function, again)**
 - View All Courses
 - View all Courses that are *not* full
 - registerStudent(); -- similar to Add Students to Course from editCourse();
 - withdrawStudent(); -- similar to Remove Students from Course
 - View All Courses that current student is registered in

AFTER FUNCTION IS COMPLETED, GOES BACK TO MainMenuSTUDENT