

Main
<pre> getUserType(Scanner input):int login(int userType,Scanner input):User menu(int userType,Scanner input):int writeToFile(ArrayList<Course>courseList):void findStudent(String name):Student </pre>

Student
<pre> ArrayList<String[]> listOfRegisteredCourses viewAllCourses():void viewRegisteredCourses():void viewNotFull():void registerCourse(String coursename, int secNum):void registerCourse(Scanner input):void withdrawCourse(String coursename, int secNum):void withdrawCourse(Scanner input):void </pre>

Course
<pre> private String courseName; private String courseId; private int maxNumOfStudents; private int currentNumOfStudents; ArrayList<String> listOfStudents = new ArrayList<String>() private String courseInstructor; private int courseSectionNum; private String courseLocation; display():void getCourseName(String courseName):String setCourseName():void getCourseId(String courseId):String setCourseId(String courseId):void getMaxNumOfStudents():int setMaxNumOfStudents(int maxNum):void getCurrentNumOfStudents():int setCurrentNumOfStudents(int curNum):void getListOfStudents():ArrayList<String> setListOfStudents(ArrayList<String> listOfStudents):void getCourseInstructor():String setCourseInstrutor(String courseInstructor):void getCourseSectionNum():int setCourseSecNum(int secNum):void getCourseLocation():String setCourseLocation(String location):void compareTo(Course o):int appendStudent(String stuName):void removeStudent(String stuName):void </pre>

<<interface>> Studentable
<pre> viewNotFull():void registerCourse(String coursename, int secNum):void registerCourse(Scanner input):void withdrawCourse(String coursename, int secNum):void withdrawCourse(Scanner input):void </pre>
Admin
<pre> viewAllCourses():void viewRegisteredCourses():void viewRegisteredCourses(Student student):void create(Scanner input):void delete(Scanner input):void edit(Scanner input):void editCourse(Course newCourse, Scanner input):void displayCertainCourse(Scanner input):void registerStudent(Scanner input):void viewFullCourse():void viewListOfStudent(Scanner input):void </pre>
<<interface>> Adminable
<pre> create(Scanner input):void delete(Scanner input):void edit(Scanner input):void displayCertainCourse(Scanner input):void registerStudent(Scanner input):void viewFullCourse():void viewListOfStudent(Scanner input):void </pre>

User
<pre> String username; String password; String firstName; String lastName; static ArrayList<Student> registeredStudents static ArrayList<Course> courseList viewAllCourses():void viewRegisteredCourses():void getUserName():String getPassword():String getRealName():String promptCourseName(Scanner input):String promptCourseId(Scanner input):String promptSecNum(Scanner input):int checkRepeatedCourse(String courseName, String courseId, int courseSectionNum, ArrayList<Course> courseList, Scanner input):Boolean promptStuName(Scanner input):String serial():void deserial():void readCourse(ArrayList<Course> courseList):void </pre>