

Course
- id: String - title: String - category: String - hours: Integer - enrolledUsers: ArrayList<User> - instructor: Instructor
+ enrollUser(user: User, hours: int): boolean + getAllCourses(): ArrayList<Course> + addCourse(course: Course): void + updateCourse(id: String, updatedCourse: Course): boolean + deleteCourse(id: String): boolean + enrollUser(courseID: String, userID: String): boolean + categoryList(category: String): ArrayList<Course> + userList(id: String): ArrayList<User> + numberOfUsers(id: String): int

Instructor
- id: String - name: String - email: String
+ getAllInstructors(): ArrayList<Instructor> + addInstructor(instructor: Instructor): void + updateInstructor(id: String, updatedInstructor: Instructor): boolean + deleteInstructor(id: String): boolean + search(name: String): Instructor + getAllTheCourses(id: String): ArrayList<Course> + getNumberOfCourses(id: String): int + changeInstructor(courseId: String, instructorID: String): boolean

User
- id: String - name: String - email: String - totalHours: Integer - courseEnrolled: ArrayList<Course>
+ getAllUsers(): ArrayList<User> + addUser(user: User): void + updateUser(id: String, updatedUser: User): boolean + deleteUser(id: String): boolean + getHoursList(hours: int): ArrayList<User> + search(email: String): User + getAllCoursesEnrolled(id: String): ArrayList<Course> + getNumOfCourses(id: String): int