

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

Instructor
<div><div>- id: String</div><div>- name: String</div></div>
<div><div>+ getAllInstructors(): ArrayList<Instructor></div><div>+ addInstructor(instructor: Instructor): void</div><div>+ updateInstructor(id: String, updatedInstructor: Instructor): boolean</div><div>+ deleteInstructor(id: String): boolean</div><div>+ search(name: String): Instructor</div></div>

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