

 Courses
<ul style="list-style-type: none"> - courseId: String - courseHours: int - pass: boolean - courseRequirements: boolean
<ul style="list-style-type: none"> + getCourses(): ArrayList<Courses> + addCourse(Courses, Errors): ResponseEntity + updateCourse(String, Courses, Errors): ResponseEntity + deleteCourse(String): ResponseEntity + getCourseById(String): ResponseEntity + courseExists(String): ResponseEntity + passCourses(): ResponseEntity + getFailedCourses(): ResponseEntity + getCourseRequirement(): ResponseEntity

 Teacher
<ul style="list-style-type: none"> - teacherId: int - teacherName: String - subject: String - students: List<Student>
<ul style="list-style-type: none"> + getTeachers(): ArrayList<Teacher> + addTeacher(Teacher, Errors): ResponseEntity + updateTeacher(int, Teacher, Errors): ResponseEntity + deleteTeacher(int): ResponseEntity + getTeacherById(int): ResponseEntity + getTeacherBySubject(String): ResponseEntity + getTeacherStudents(int): ResponseEntity + getAverageGpa(int): ResponseEntity

 Student
<ul style="list-style-type: none"> - studentId: int - courseId: String - studentName: String - studentAge: int - GPA: double - hoursEarned: int - hoursLeft: int
<ul style="list-style-type: none"> + getStudents(): ArrayList<Student> + addStudent(Student, Errors): ResponseEntity + updateStudent(int, Student, Errors): ResponseEntity + deleteStudent(int): ResponseEntity + getStudentById(int): ResponseEntity + getStudentWithSameCourse(String): ResponseEntity + getStudentByHoursEarned(int): ResponseEntity + getStudentWithGPA(double): ResponseEntity + getAverageGpa(): ResponseEntity