RestController

Created by	Deepak Ks
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: SpringBoot	

Entity.Student

```
package com.Course.Practice.entity;
public class Student {
    private int id;
    private String name;
    private String dept;
    public Student(int id, String name, String dept) {
        this.id = id;
        this.name = name;
        this.dept = dept;
    }
    public int getId() {
        return id;
    }
    public void setId(int id) {
        this.id = id;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
```

```
this.name = name;
    }
    public String getDept() {
        return dept;
    }
    public void setDept(String dept) {
        this.dept = dept;
    }
    @Override
    public String toString() {
        return "Student{" +
                "id=" + id +
                ", name='" + name + '\'' +
                ", dept='" + dept + '\'' +
                '}';
    }
}
```

Controller.MyController

```
package com.Course.Practice.controller;
import com.Course.Practice.entity.Student;
import com.Course.Practice.service.StudentService;
import org.springframework.beans.factory.annotation.Autowire
d;
import org.springframework.web.bind.annotation.*;
import java.util.List;
```

```
@RestController
public class MyController {
    @Autowired
    private StudentService service;
    @GetMapping("/HOME")
    public String home() {
        return "this is the home";
    }
    @GetMapping("/students")
    public List<Student> getStudents() {
        return this.service.getStudent();
    }
    @GetMapping("/students/{id}")
    public Student getStudent(@PathVariable String id){
        return this.service.getStudent(Integer.parseInt(id));
    }
    @PostMapping("/addStudent")
    public Student addStudent(@RequestBody Student student){
        return this.service.setStudent(student);
    }
    @DeleteMapping("/removeStudent/{id} ")
    public List<Student> removeStudent(@PathVariable String i
d){
        return this.service.removeStudent(Integer.parseInt(i
d));
    }
}
```

Service.Studentservice.java

```
package com.Course.Practice.service;
import com.Course.Practice.entity.Student;
import java.util.List;

public interface StudentService {
    public List<Student> getStudent();
    public Student getStudent(int id);
    public Student setStudent(Student student);
    public List<Student> removeStudent(int id);
}
```

service.StudentserviceImp.java

```
students.add(new Student(2, "john", "Mech"));
    students.add(new Student(3,"Will","cs"));
}
public List<Student> getStudent() {
    return students;
}
@Override
public Student getStudent(int id) {
    Student s=null;
    for (Student student:students) {
        if(student.getId()==id){
            s=student;
            break;
        }
    return s;
}
@Override
public Student setStudent(Student student) {
    students.add(student);
    return student;
}
@Override
public List<Student> removeStudent(int id) {
    for (Student student: students
         ) {
        if(student.getId()==id){
            students.remove(student);
            break;
        }
    return students;
```

}