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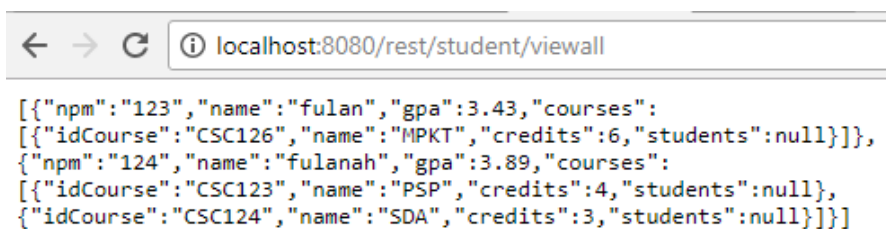Tutorial 7

1. Latihan 1

```
@RequestMapping("/student/viewall")
public List<StudentModel> view (){
    List<StudentModel> students = studentService.selectAllStudents();
    return students;
}
```

Method tersebut akan menerima url "/rest/student/viewall", lalu akan melakukan pengambilan data seluruh mahasiswa yang ada dengan menggunakan method yang ada pada service. Data tersebut disimpan dalam objek students dengan tipe data List<StudentModel>. Setelah data didapatkan, maka akan ditampilkan data semua student yang terdapat pada students

localhost:8080/rest/student/viewall

```
[{"npm":"123","name":"fulan","gpa":3.43,"courses":
[{"idCourse":"CSC126","name":"MPKT","credits":6,"students":null}]},
{"npm":"124","name":"fulanah","gpa":3.89,"courses":
[{"idCourse":"CSC123","name":"PSP","credits":4,"students":null},
{"idCourse":"CSC124","name":"SDA","credits":3,"students":null}]}]
```

2. Latihan 2
   a. Method menampilkan satu course

```java
@RequestMapping("/course/view/{id}")
public CourseModel viewCourse (@PathVariable(value = "id") String id){
    CourseModel course = courseService.selectCourseInfo(id);
    return course;
}
```

Method tersebut akan menerima url "/rest/course/view" dengan variable "id", lalu akan melakukan pengambilan data suatu course dengan id yang sesuai menggunakan method yang ada pada service. Data tersebut disimpan dalam objek course dengan tipe data CoursesModel. Setelah data didapatkan, maka akan ditampilkan data course

← → C ⓘ localhost:8080/rest/course/view/CSC123

```
{"idCourse":"CSC123","name":"PSP","credits":4,"students":
[{"npm":"124","name":"fulanah","gpa":0.0,"courses":null}]}
```

String parse	JS eval

`[`
`{`
`"idCourse":"CSC123",`
`"name":"PSP",`
`"credits":4,`
`"students":null`
`},`
`{`
`"idCourse":"CSC124",`
`"name":"SDA",`
`"credits":3,`
`"students":null`
`},`
`{`
`"idCourse":"CSC125",`
`"name":"DDP 1",`
`"credits":4,`
`"students":null`
`},`
`{`
`"idCourse":"CSC126",`
`"name":"MPKT",`
`"credits":6,`
`"students":null`
`}`
`]`
	`[`
	`{`
	`"idCourse":"CSC123",`
	`"name":"PSP",`
	`"credits":4,`
	`"students":null`
	`},`
	`{`
	`"idCourse":"CSC124",`
	`"name":"SDA",`
	`"credits":3,`
	`"students":null`
	`},`
	`{`
	`"idCourse":"CSC125",`
	`"name":"DDP 1",`
	`"credits":4,`
	`"students":null`
	`},`
	`{`
	`"idCourse":"CSC126",`
	`"name":"MPKT",`
	`"credits":6,`
	`"students":null`
	`}`
	`]`

b. Method menampilkan seluruh course

```
@RequestMapping("/course/viewall")
public List<CourseModel> viewAllCourse (){
    List<CourseModel> courses = courseService.selectAllCourses();
    return courses;
}
```

Method tersebut akan menerima url "/rest/courses/viewall", lalu akan melakukan pengambilan data seluruh course yang ada dengan menggunakan method yang ada pada service. Data tersebut disimpan dalam objek courses dengan tipe data List<CourseModel>. Setelah data didapatkan, maka akan ditampilkan data semua course yang terdapat pada courses

localhost:8080/rest/course/viewall

```
[{"idCourse":"CSC123","name":"PSP","credits":4,"students":null},
{"idCourse":"CSC124","name":"SDA","credits":3,"students":null},
{"idCourse":"CSC125","name":"DDP 1","credits":4,"students":null},
{"idCourse":"CSC126","name":"MPKT","credits":6,"students":null}]
```

String parse	JS eval

▽ {
  "idCourse":"CSC123",
  "name":"PSP",
  "credits":4,
  "students": ▽ [
    ▽ {
      "npm":"124",
      "name":"fulanah",
      "gpa":0.0,
      "courses":null
    }
  ]
}
	▽ {
	  "idCourse":"CSC123",
	  "name":"PSP",
	  "credits":4,
	  "students": ▽ [
	    ▽ {
	      "npm":"124",
	      "name":"fulanah",
	      "gpa":0,
	      "courses":null
	    }
	  ]
	}

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Tutorial 7

3. Latihan 3

4. Latihan 4