# **Tutorial Membuat Service Producer (view)**

### Latihan Membuat Service Producer

#### 1. ViewAll

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Saya menambahkan method viewAll di StudentRestController

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

Karena yang diminta adalah mengeluarkan semua data *student* maka tentunya *output* dalam bentuk *List* sehingga *method* yang saya buat tipenya *List* dengan *return List*<*StudentModel*> yang berisi data dari seluruh *student*.

### Output:

```
] 🖯
   ⊕{
      "npm": "123",
      "name":"koiiii",
      "gpa":4.0,
      "courses": ☐ [
         □ {
            "id_course":"CSC126",
            "name":"MPKT",
            "credits":6,
            "students":null
      1
   },
   ∃ {
      "npm": "124",
      "name":"lala",
      "gpa":4.0,
      "courses": 🖯 [
         □ {
            "id_course":"CSC123",
            "name":"PSP",
            "credits":4,
            "students":null
         },
         □ {
            "id_course": "CSC124",
            "name":"SDA",
            "credits":3,
            "students":null
      1
},
□ {
  "npm":"3",
  "name":"koi",
  "gpa":3.49,
  "courses":⊖[
⊟ {
  "npm": "4",
  "name":"koi",
  "gpa":3.15,
  "courses": 🖯 [
}
```

- 2. Buatlah service untuk class Course. Buatlah controller baru yang terdapat service untuk melihat suatu course dengan masukan ID Course (view by ID) dan service untuk melihat semua course (view all).
- a. View by ID

## Output:

Method yang saya buat untuk view course by ID sama seperti method student sebelumnya hanya saja ini dilakukan pada course. Ganti parameter menjadi id\_course, ganti model menjadi CourseModel lalu pilih method selectCourse dengan menerima parameter id\_course.

```
@RequestMapping("course/view/{id_course}")
public CourseModel viewCourseById(@PathVariable(value = "id_course") String id_course) {
    CourseModel course = studentService.selectCourse(id_course);
    return course;
}
```

b. Viewall

#### Output:



```
3 🖯
                          □{
                                                   "id_course": "CSC123",
                                                "name": "PSP",
                                                  "credits":4,
                                                  "students": null
                          },
                          6
                                                  "id_course": "CSC124",
                                                  "name":"SDA",
                                               "credits":3,
                                                "students": null
                          },
                          □ {
                                                "id course": "CSC125",
                                                "name":"DDP 1",
                                                  "credits":4,
                                                "students":null
                          },
                          \(\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tett{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\texi}\text{\text{\text{\text{\tetx{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\t
                                                   "id_course":"CSC126",
                                                "name": "MPKT",
                                                  "credits":6,
                                                "students":null
                         }
1
```

 Method yang saya buat di Controller, logic nya sama seperti method viewall di student, hanya tinggal saja menjadi course.

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

- Buat method ini di Mapper

```
@Select("select id_course, name, credits from course")
List<CourseModel> selectCourses ();
```

Buat method ini di StudentService

```
List<CourseModel> selectCourses();
```

Buat method ini di StudentServiceDatabase

```
@Override
public List<CourseModel> selectCourses ()
{
    log.info ("select all courses");
    return studentMapper.selectFourses ();
}
```