Membuat Service producr

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← → C ♠ ⓒ localhost:8080/rest/student/view/123 ♠ ■ ⓒ Weekly report

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## Tree in the control of the control
```

```
String parse
                         JS eval
□ {
                         □ {
   "npm":"123",
                             "npm":"123",
   "name": "aduhai",
                             "name": "aduhai",
   "gpa":2.9,
                             "gpa":2.9,
   "courses": 🗖 [
                             "courses": ☐ [
      □ {
                                □ {
         "idCourse":
                                   "idCourse":
         null,
                                   null,
         "name":"MPK
                                   "name": "MPK
         Т",
                                   Т",
         "credits":6
                                   "credits":6
         "students":
                                   "students":
         null
                                   null
   ]
                             ]
```

Latihan:

1. Jawaban: penambahan pada kelas StudentRestController.java

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

.

```
(i) localhost:8080/rest/student/viewall
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   [{"npm":"123","name":"aduhai","gpa":2.9,"courses":
   [{"idCourse":null, "name": "MPKT", "credits":6, "students":null}]},
   {"npm":"125", "name": "rei", "gpa":4.0, "courses": [{"idCourse":null, "name": "DDP
   1", "credits":4, "students":null}]}]
2. Jawaban: penambahan padakelas CourseRestController.java
    package com.example.rest;
   ♪import java.util.List;
    @RestController
    @RequestMapping("/rest")
    public class CourseRestController {
        @Autowired
        CourseService courseService;
        @RequestMapping("/course/view/{id_course}")
        public CourseModel view(@PathVariable(value = "id_course") String id_course) {
            CourseModel course = courseService.selectCourse(id_course);
            return course;
        }
        @RequestMapping("/course/viewall")
        public List<CourseModel> view ()
        {
            List<CourseModel> courses = courseService.selectAllCourses ();
            return courses;
        }
    }
                        i localhost:8080/rest/course/viewall
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```

```
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[{"idCourse":"CSC123", "name":"PSP", "credits":4, "students":[]},

{"idCourse":"CSC124", "name":"SDA", "credits":3, "students":[]},

{"idCourse":"CSC125", "name":"DDP 1", "credits":4, "students":

[{"npm":"125", "name":"rei", "gpa":4.0, "courses":null}]},

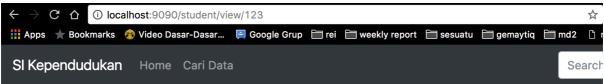
{"idCourse":"CSC126", "name":"MPKT", "credits":6, "students":

[{"npm":"123", "name":"aduhai", "gpa":2.9, "courses":null}]}]
```



Membuat Service Consumer

Hasil:



Lihat Data Mahasiswa

NPM = 123 Name = aduhai GPA = 2.9 Kuliah yang diambil • MPKT-6 sks

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Latihan

- 1. **Latihan 3:** Implementasikan *service consumer* untuk view all Students dengan melengkapi *method* selectAllStudents yang ada di kelas **StudentServiceRest** .
- a. Method yang saya ubah yaitu seperti dibawah:

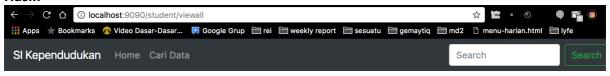
Reitasya Devina 1406623663

```
public class StudentDAOImpl implements StudentDAO {
   private RestTemplate restTemplate;
   public StudentModel selectStudent(String npm) {
      StudentModel student = restTemplate.getForObject("http://localhost:8080/rest/student/view/" + npm,
             StudentModel.class);
      return student;
   }
   @Override
   public List<StudentModel> selectAllStudents () {
      List<StudentModel> students = restTemplate.getForObject("http://localhost:8080/rest/student/viewall".List.class);
       return students;
}
public class StudentServiceRest implements StudentService {
     @Autowired
     private StudentDAO studentDAO;
     @Override
     public
                  StudentModel
                                                          ( String npm)
                                     selectStudent
           log . info
                            ( "REST
                                             select
                                                        student
                                                                    with
                                                                                    {}" ,npm );
                                                                            npm
         return studentDAO.selectStudent(npm);
         }
     @Override
                                                     selectAllStudents
          public
                       List < StudentModel >
                             ( "REST

    select

                                                                students");
            log . info
                                                         all
            List<StudentModel> students = studentDAO.selectAllStudents();
            return students;
          }
```

Hasil:



All Students



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2. Latihan **4:** Implementasikan *service consumer* untuk *class* CourseModel dengan membuat *class-class* DAO dan *service* baru.

Code yang diubah dan buat:

```
1 package com.example.dao;
3⊕ import java.util.List;[
15 @Service
16 public class CourseDAOImpl implements CourseDAO {
      @Autowired
19
     private RestTemplate restTemplate;
20
21⊜
      @Override
      public CourseModel selectCourse(String id_course) {
         CourseModel course = restTemplate.getForObject("http://localhost:8080/rest/course/view/" + id_course,
23
24
                CourseModel.class);
25
          return course;
     }
26
28⊜
      @Override
29
      public List<CourseModel> selectAllCourse () {
30
         List<CourseModel> courses = restTemplate.getForObject("http://localhost:8080/rest/course/viewall".List.class);
          return courses;
34
36 }
  @Slf4j
  @Service
  @Primary
  public class CourseServiceRest implements CourseService {
       @Autowired
       private CourseDAO courseDAO;
       @Override
Θ
                  CourseModel selectCourse ( String id_course)
      public
          {
            log . info
                           ( "REST - select course with id_course {}" ,id_course );
          return courseDAO.selectCourse(id_course);
       @Override
Θ
                       List < CourseModel >
                                                  selectAllCourses ()
           public
                           ( "REST - select all course" );
             List<CourseModel> courses = courseDAO.selectAllCourse();
             return courses;
           }
```

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Hasil:

