

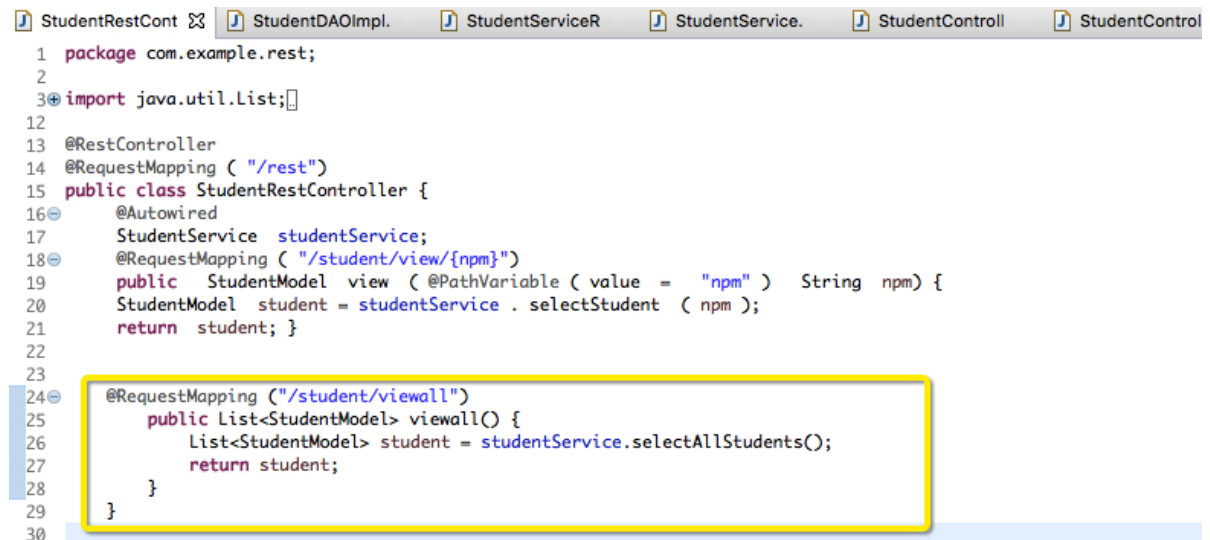
1. SUMMARY

Pada tutorial kali ini mempelajari tentang Web Service. Web service digunakan untuk membantu untuk suatu aplikasi untuk berkomunikasi dengan aplikasi lain. Dalam tutorial ini menggunakan Service Consumer dan Service Producer. Service Consumer digunakan untuk berinteraksi dengan pengguna yang lebih focus untuk menyediakan dan mengolah data ke pengguna tanpa memiliki database, sedangkan Service Producer digunakan untuk aplikasi yang memberikan data pada Service Consumer dan bertanggung jawab menyediakan data dari database yang tidak memiliki view yang dapat diakses oleh pengguna.

2. LATIHAN

1. Buat service untuk mengembalikan seluruh student yang terdapat pada database. Dengan mapping “/rest/student/viewall”.

Method view all :



```
1 package com.example.rest;
2
3 import java.util.List;
4
5 @RestController
6 @RequestMapping ( "/rest")
7 public class StudentRestController {
8     @Autowired
9     StudentService studentService;
10    @RequestMapping ( "/student/view/{npm}")
11    public StudentModel view ( @PathVariable ( value = "npm" ) String npm) {
12        StudentModel student = studentService . selectStudent ( npm );
13        return student; }
14
15    @RequestMapping ( "/student/viewall")
16    public List<StudentModel> viewall() {
17        List<StudentModel> student = studentService.selectAllStudents();
18        return student;
19    }
20 }
```

Method tersebut akan memanggil seluruh data student lalu akan menampilkan tulisan seperti pada gambar berikut.

Shinta Kusuma Wardhani

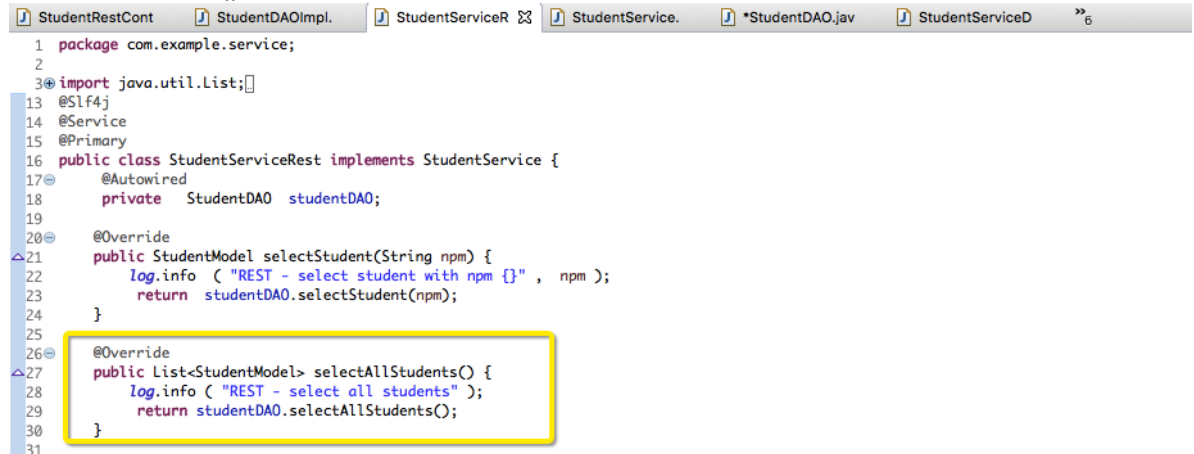
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Write Up Lab Tutorial 7

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localhost:8080/rest/student/viewall
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2. Implementasi service consumer untuk view all student dengan melengkapi class StudentServiceRest. Method tersebut akan mengembalikan kepada studentDAO selectAllStudent().



```
1 package com.example.service;
2
3 import java.util.List;
4
5 @Slf4j
6 @Service
7 @Primary
8 public class StudentServiceRest implements StudentService {
9     @Autowired
10     private StudentDAO studentDAO;
11
12     @Override
13     public StudentModel selectStudent(String npm) {
14         log.info ( "REST - select student with npm {}", npm );
15         return studentDAO.selectStudent(npm);
16     }
17
18     @Override
19     public List<StudentModel> selectAllStudents() {
20         log.info ( "REST - select all students" );
21         return studentDAO.selectAllStudents();
22     }
23 }
```

Berikut merupakan method yang terdapat pada StudentDAOImpl.java



```
1 package com.example.dao;
2
3 import java.util.Arrays;
4
5 @Service
6 public class StudentDAOImpl implements StudentDAO {
7     @Autowired
8     private RestTemplate restTemplate;
9
10     @Override
11     public StudentModel selectStudent(String npm) {
12         StudentModel student = restTemplate.getForObject ( "http://localhost:8080/rest/student/view/" + npm, StudentModel.class );
13         return student;
14     }
15
16     @Override
17     public List<StudentModel> selectAllStudents() {
18         ResponseEntity<StudentModel[]> student = restTemplate.getForEntity("http://localhost:8080/rest/student/viewall", StudentModel[].class);
19         return Arrays.asList(student.getBody());
20     }
21 }
```

Method diatas menggunakan ResponseEntity untuk mengambil nilai objek yang dalam bentuk list dan akan dikembalikan dalam bentuk list yang akan ditampilkan pada gambar berikut.

Write Up Lab Tutorial 7

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[View Student](#)
[Add Student](#)

All Students

Show entries
 Search:

No	NPM	Name	GPA	Status	Action
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10	1506737831	Milt	3.39	Sangat Memuaskan!	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Delete"/>

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