

TUTORIAL 07

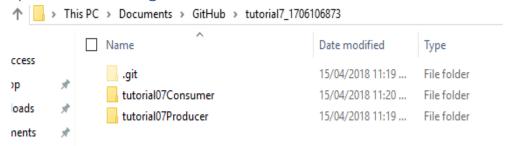
Web Service



Veritas, Probitas, Iustitia
—— EST. 1849 ——

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I Persiapan folder dan git



II Membuat Service Producer

Mengerjakan langkah – langkah seperti pada tutorial

```
application.properties
                                                                                                 🛾 🗓 StudentRestController.java 🖂

▼ № APAPTutorial04 [boot] [devtools]

                                                                             package com.example.rest;
   3@ import org.springframework.beans.factory.annotation.Autowired;
      > # com.example
                                                                             import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestMapping;
      > # com.example.controller
      > # com.example.dao
                                                                             {\bf import\ org.spring framework.web.bind.annotation.RestController;}
      > # com.example.model
                                                                             import com.example.model.StudentModel;
      com.example.rest
                                                                             import com.example.service.StudentService;
         StudentRestController.java
      > # com.example.service
                                                                              @RestController
   public class StudentRestController
                                                                              @RequestMapping ( "/rest")
      > 📂 templates
         application.properties
                                                                              @Autowired StudentService studentService;
   > # src/test/java
                                                                             MARCHUESTHAMPAPING ( "/student/view/{npm}")
public StudentModel view ( @PathVariable ( value = "npm" ) String npm) {
StudentModel student = studentService . selectStudent ( npm );
   > M JRE System Library [JavaSE-1.8]
     Maven Dependencies
                                                                             return student;
   > 🗁 src
     target
                                                                             }
}
              uritaun 1706106072 ndf
```

Menampilkan url http://localhost:8080/rest/student/view/123



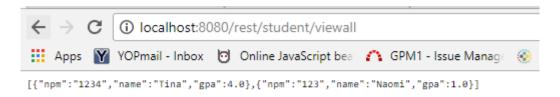
III Latihan 1

Latihan 1: Buatlah *service* untuk mengembalikan seluruh student yang ada di basis data. *Service* ini mirip seperti *method* viewAll di Web Controller. *Service* tersebut di-*mapping* ke "/rest/student/viewall".

Tambahan method : menambah request mapping untuk view all dengan menambah method yang mengembalikan list student

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

Hasil



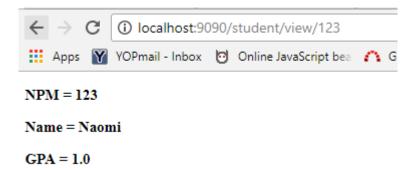
IV Membuat Service Consumer

Mengikuti langkah – langkah pada tutorial

Produser



Consumer



V Latihan 2

Latihan 2: Implementasikan *service consumer* untuk view all Students dengan melengkapi *method* selectAllStudents yang ada di kelas **StudentServiceRest**

```
public List <StudentModel> selectAllStudents ()
{
    String url = "http://localhost:8080/rest/student/viewall";
    ResponseEntity<StudentModel[]> students = restTemplate.getForEntity(url, StudentModel[].class);
    return Arrays.asList(students.getBody());
}

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

Hasil:

