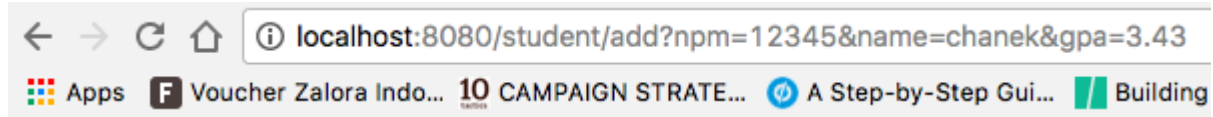Nama: Muhammad Hasby Rosyadi
NPM: 1306386642
APAP – A

Method View by NPM

localhost:8080/student/add?npm=12345&name=chanek&gpa=3.43

localhost:8080/student/add?npm=12345&name=chanek

localhost:8080/student/add?npm=12345&name=chanek&gpa=3.43 lalu buka
localhost:8080/student/view?npm=12345
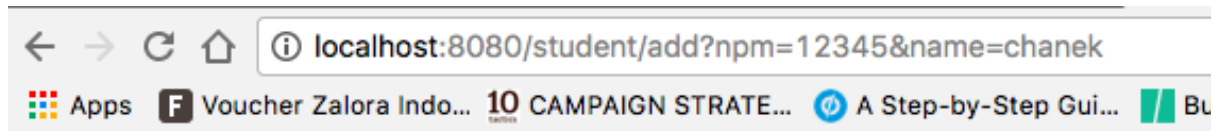
Nama: Muhammad Hasby Rosyadi
NPM: 1306386642
APAP – A

Coba matikan program dan jalankan kembali serta buka

localhost:8080/student/view?npm=12345

Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

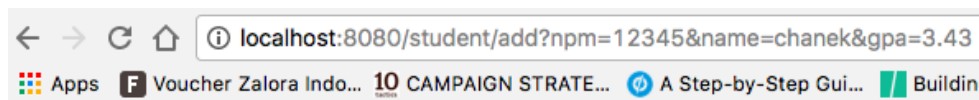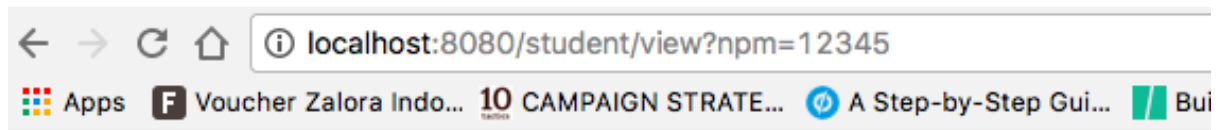Fri Sep 22 19:32:21 WIB 2017
There was an unexpected error (type=Internal Server Error, status=500).
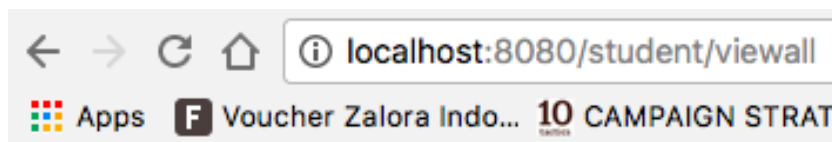Exception evaluating SpringEL expression: "student.npm" (view:7)

Method View All

terjadi error karena tidak terdapat data tersebut pada arraylist yang dibuat

localhost:8080/student/add?npm=12345&name=chanek&gpa=3.43 lalu buka
localhost:8080/student/viewall

Data berhasil ditambahkan

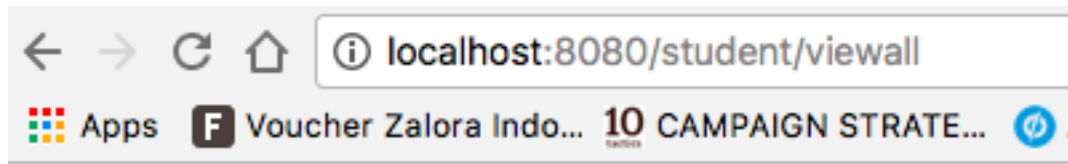## No. 1

NPM = 12345

Name = chanek

GPA = 3.43

Coba tambahkan data Student lainnya dengan NPM yang berbeda, lalu buka

Nama: Muhammad Hasby Rosyadi
NPM: 1306386642
APAP – A

localhost:8080/student/viewall,

kosong, karena data yang diarraylist dihapus ketika server dimatikan

** Ringkasan Materi**

ringkasan materi yang didapat pada tutorial ini adalah

- dapat menggunakan interface saat melakukan pemanggilan class
- penggunaan Optional pada PathVariable

** Method selectStudent **

```java
@Override
public StudentModel selectStudent(String npm) {
    // TODO Auto-generated method stub
    StudentModel siswa = null;
    for (int i=0; i < studentList.size(); i++) {
        if (studentList.get(i).getNpm().equals(npm)) {
            siswa = studentList.get(i);
            break;
        }
    }
    return siswa;
}
```

Fitur Delete

- menambahkan method delete pada studentService

```java
public interface StudentService {

    StudentModel selectStudent(String npm);
    List<StudentModel> selectAllStudents();
    void student (StudentModel student);
    void delete (String npm);
}
```

- menambahkan code pada inMemory untuk menghapus npm yang sesuai atau yang dinginkan

```java
@Override
public void delete(String npm) {
    // TODO Auto-generated method stub
    for (int i=0; i < studentList.size(); i++) {
        if (studentList.get(i).getNpm().equals(npm)) {
            studentList.remove(i);
            break;
        }
    }
}
```

- kemudian menerapkan implementasi code pada controller untuk dapat diakses pada controller

```java
@RequestMapping(value = {"/student/delete/{npm}", "/student/delete/"})
public String deletenpm(@PathVariable Optional <String> npm, Model model) {
    if (npm.isPresent()) {
        String search = npm.get();
        StudentModel student = studentService.selectStudent(search);
        if (student == null) {
            return "errorpage";
        } else {
            model.addAttribute("student", student);
            return "hapus";
        }
    } else {
        return "errorpage";
    }
}
```