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#### Tutorial 04 APAP

##### 1. Method untuk delete

- Method pada studentmapper untuk delete

```
@Delete("Delete from student where npm = #{npm}")
```

```
void deleteStudent(@Param("npm") String npm);
```

- Method delete student pada service class

```
@Override
```

```
public void deleteStudent (String npm)
```

```
{
```

```
    log.info ("student " + npm + " deleted");
```

```
    studentMapper.deleteStudent(npm);
```

```
}
```

- Pada controller tambahkan pengecekan, berikut

```
@RequestMapping("/student/delete/{npm}")
```

```
public String delete (Model model, @PathVariable(value = "npm") String npm)
```

```
{
```

```
    StudentModel student = studentDAO.selectStudent (npm);
```

```
    if (student != null) {
```

```
        studentDAO.deleteStudent (npm);
```

```
        return "delete";
```

```
    } else {
```

```
        model.addAttribute ("npm", npm);
```

```
        return "not-found";
```

```
    }
```

```
}
```

- Hasil dari tambah student, lakukan view all

← → ↻ ⓘ localhost:8080/student/viewall

## All Students

No. 1

NPM = 1101

Name = arfa

GPA = 3.89

[Delete Data](#)

---

No. 2

NPM = 123

Name = chanek

GPA = 3.24

[Delete Data](#)

---

No. 3

NPM = 1234

Name = kamal

GPA = 3.89

[Delete Data](#)

---

No. 4

NPM = 2312

Name = apin

GPA = 3.9

[Delete Data](#)

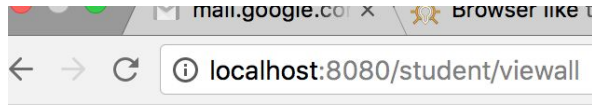
---

- Lakukan panggilan delete, dengan klik link di view all, akan tampil sebagai berikut

← → ↻ ⓘ localhost:8080/student/delete/2312

## Data berhasil dihapus

Selanjutnya lakukan view all setelah delete



## All Students

**No. 1**

**NPM = 1101**

**Name = arfa**

**GPA = 3.89**

[Delete Data](#)

---

**No. 2**

**NPM = 123**

**Name = chanek**

**GPA = 3.24**

[Delete Data](#)

---

**No. 3**

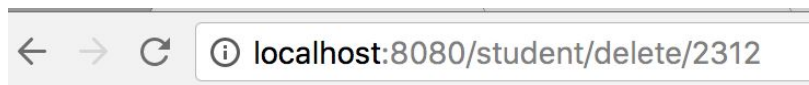
**NPM = 1234**

**Name = kamal**

**GPA = 3.89**

[Delete Data](#)

---



## Student not found

**NPM = 2312**

## 2. Method menambahkan update

- Method update pada studentmapper

```
@Update("Update student set name = #{name}, gpa = #{gpa} where npm = #{npm}")  
void updateStudent (StudentModel student);
```

- Method update student pada interface studentservice

```
void updateStudent (StudentModel student);
```

- Implementasi method update student pada studentservicedatabase

```
@Override
```

```
public void updateStudent (StudentModel student)  
{  
    log.info ("student " + student.getNpm() + " updated");  
    studentMapper.updateStudent(student);  
}
```

- Tambahkan link pada view all untuk mengarahkan ke form edit untuk diupdate  
<a th:href="/student/update/" + \${student.npm}" > Update Data</a><br/>
- Tambahkan view form-update untuk melakukan edit/update

```
<!DOCTYPE HTML>
```

```
<html xmlns="http://www.w3.org/1999/xhtml"  
    xmlns:th="http://www.thymeleaf.org">
```

```
<head>
```

```
<title>Update student</title>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />  
</head>
```

```
<body>
```

```
<h1 class="page-header">Problem Editor</h1>
```

```
<form action="/student/update/submit" method="post">
```

```
<div>
```

```
<label for="npm">NPM</label> <input type="text" readonly="true"  
name="npm" th:value="${student.npm}" />
```

```
</div>
```

```
<div>
```

```
<label for="name">Name</label> <input type="text" name="name"  
th:value="${student.name}" />
```

```
</div>
```

```
<div>
```

```

                <label for="gpa">GPA</label> <input type="text" name="gpa"
th:value="${student.gpa}" />
            </div>

            <div>
                <button type="submit" name="action" value="save">Save</button>
            </div>
        </form>

</body>

</html>

```

- Tambahkan method di studentcontroller untuk akses update student, sebagai berikut

```

@RequestMapping("/student/update/{npm}")
public String updatePath (Model model,
    @PathVariable(value = "npm") String npm)
{
    StudentModel student = studentDAO.selectStudent (npm);

    if (student != null) {
        model.addAttribute ("student", student);
        return "form-update";
    } else {
        model.addAttribute ("npm", npm);
        return "not-found";
    }
}

```

Method di atas, akan mengarahkan data berdasarkan select student yang ada di db, dan akan ditampilkan di view form-update, jika tidak ditemukan, akan tampil view not-found, berikut tampilan view all dan form update setelah dipilih

localhost:8080/student/viewall

## All Students

**No. 1**

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[Delete Data](#)  
[Update Data](#)

---

**No. 2**

**NPM = 123**

**Name = chanek**

**GPA = 3.24**

[Delete Data](#)  
[Update Data](#)

---

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**NPM = 1234**

**Name = kamal**

**GPA = 3.89**

[Delete Data](#)  
[Update Data](#)

---

localhost:8080/student/update/1234

## Problem Editor

NPM   
Name   
GPA

- Tambahkan method dengan tipe request post untuk melakukan update data di studentcontroller

```

@RequestMapping(value = "/student/update/submit", method = RequestMethod.POST)
public String updateSubmit(@RequestParam(value = "npm", required = false) String npm,
    @RequestParam(value = "name", required = false) String name,
    @RequestParam(value = "gpa", required = false) double gpa)
{
    StudentModel student = new StudentModel (npm, name, gpa);
    studentDAO.updateStudent(student);

    return "success-update";
}

```

Berikut hasil setelah melakukan save update submit



**Data berhasil diubah/diupdate**