

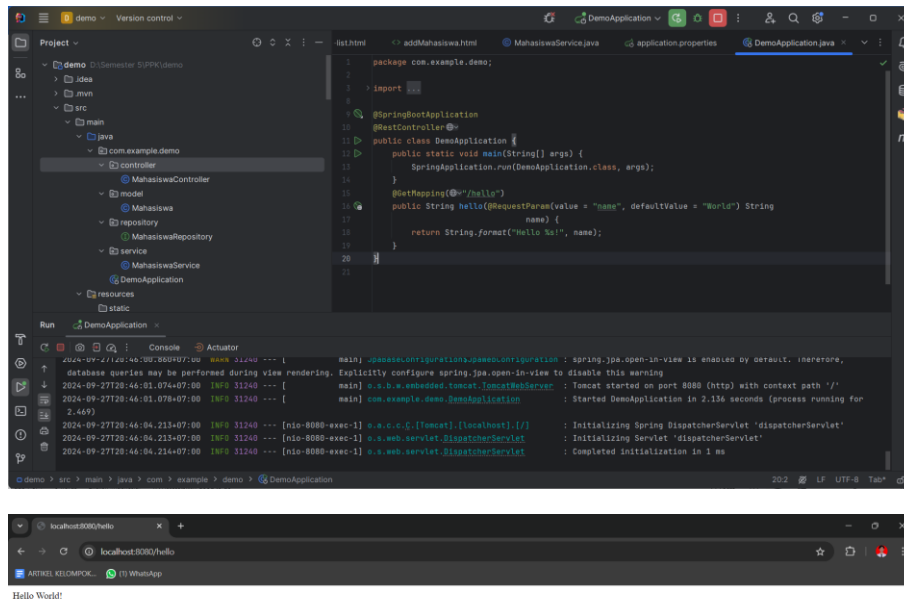
Nama : Muhammad Zayan Hafizh Hadaya

NIM : 222212776

Kelas : 3SI2

## Modul 1 : Spring Framework

### 1. Print hello world



Ketika ditambahkan parameter pada url outputnya akan seperti ini



## 2. Membuat aplikasi CRUD

```
package com.example.demo;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.web.bind.annotation.*;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import java.util.ArrayList;
import java.util.List;

@SpringBootApplication
@Controller
public class DemoApplication {
    private List<String> items = new ArrayList<>();
    public static void main(String[] args) {
        SpringApplication.run(DemoApplication.class, args);
    }
    @GetMapping("/")
    public String index(Model model) {
        model.addAttribute("items", items);
        return "index";
    }
    @PostMapping("/add")
    public String addItem(@RequestParam String item) {
        items.add(item);
        return "redirect:/";
    }
    @GetMapping("/edit/{index}")
    public String editItem(@PathVariable int index, Model model) {
        String item = items.get(index);
        model.addAttribute("index", index);
        model.addAttribute("item", item);
        return "edit";
    }
    @PostMapping("/update/{index}")
    public String updateItem(@PathVariable int index, @RequestParam
String item) {
        items.set(index, item);
        return "redirect:/";
    }
    @GetMapping("/delete/{index}")
    public String deleteItem(@PathVariable int index) {
```

```

        items.remove(index);
        return "redirect:/";
    }
}

```

```

<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
    <title>CRUD Application</title>
</head>
<body>
<h1>CRUD Application</h1>
<form action="/add" method="post">
    <input type="text" name="item" placeholder="Enter item" required>
    <button type="submit">Add</button>
</form>
<ul>
    <li th:each="item, index : ${items}">
        <span th:text="${item}"></span>
        <a th:href="@{/edit/{index} (index=${index.index})}">Edit</a>
        <a
th:href="@{/delete/{index} (index=${index.index})}">Delete</a>
    </li>
</ul>
</body>
</html>

```





## Membuat menu item

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
  <title>Edit Item</title>
</head>
<body>
<h1>Edit Item</h1>
<form th:action="@{/update/{index} (index=${index})}" method="post">
  <input type="text" name="item" th:value="${item}" required>
  <button type="submit">Update</button>
</form>
<a th:href="@{/}">Back to List</a>
</body>
</html>
```

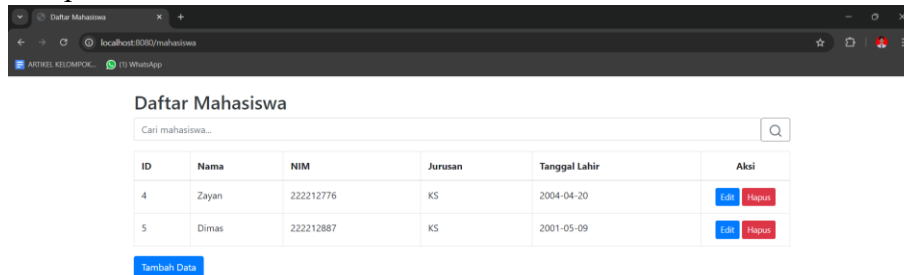


## Penugasan

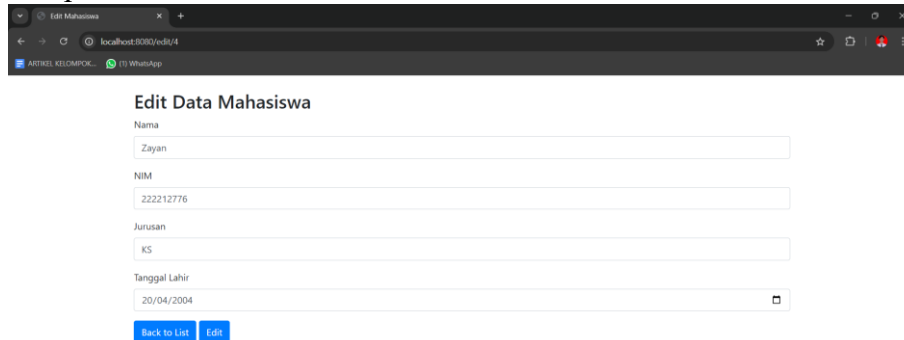
Link source code :

<https://s.stis.ac.id/ppk1>

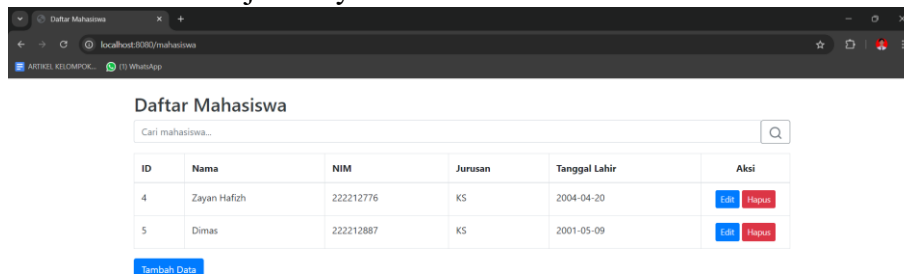
### 1. Tampilan utama



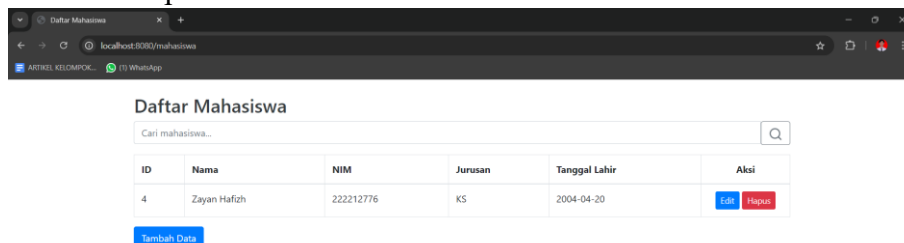
### 2. Tampilan edit data



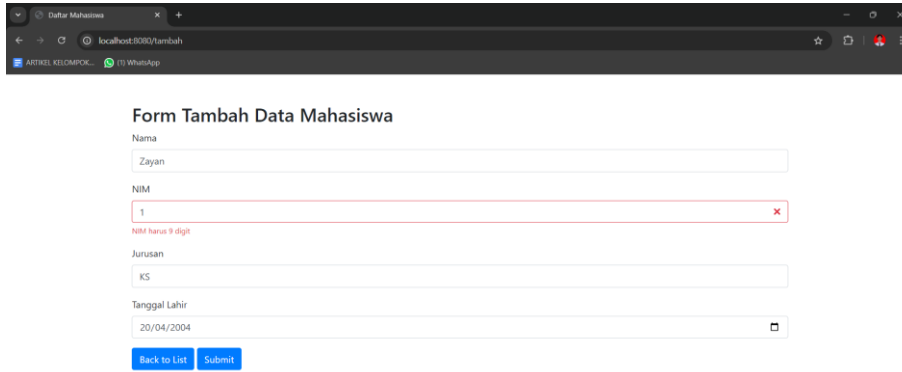
### 3. Setelah diedit menjadi Zayan Hafizh



### 4. Mencoba hapus data Dimas



### 3. Validasi form



Form Tambah Data Mahasiswa

Nama  
Zayan

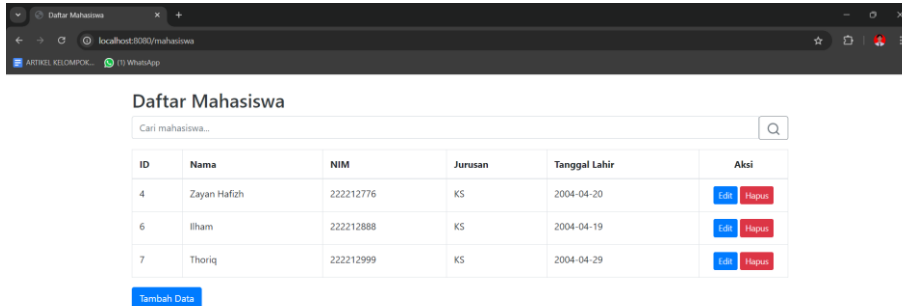
NIM  
1  
NIM harus 9 digit

Jurusan  
KS

Tanggal Lahir  
20/04/2004

[Back to List](#) [Submit](#)

### 4. Fitur search



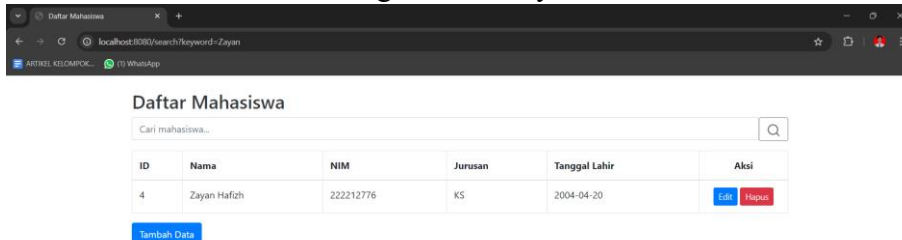
Daftar Mahasiswa

Cari mahasiswa...

ID	Nama	NIM	Jurusan	Tanggal Lahir	Aksi
4	Zayan Hafizh	222212776	KS	2004-04-20	<a href="#">Edit</a> <a href="#">Hapus</a>
6	Ilham	222212888	KS	2004-04-19	<a href="#">Edit</a> <a href="#">Hapus</a>
7	Thoriq	222212999	KS	2004-04-29	<a href="#">Edit</a> <a href="#">Hapus</a>

[Tambah Data](#)

### Mencari data mahasiswa dengan nama zayan



Daftar Mahasiswa

Cari mahasiswa...

ID	Nama	NIM	Jurusan	Tanggal Lahir	Aksi
4	Zayan Hafizh	222212776	KS	2004-04-20	<a href="#">Edit</a> <a href="#">Hapus</a>

[Tambah Data](#)