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Materi : Spring MVC

## Praktikum 5

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1. Buatlah controller SpringMVC berupa class `ProdukController` yang berisi method `daftarProduk`, `tampilkanForm` dan `prosesForm` untuk menampilkan data dan input produk dari database

Jawab :

 File ProdukController.java

```
package com.training.springmvc;

import java.math.BigDecimal;
import java.util.Date;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;

@Controller
public class ProdukController {

    @Autowired private ProdukDao produkDao;

    @RequestMapping("/produk/list")
    public ModelMap daftarProduk() throws Exception{
        List<Produk> hasil = produkDao.cariSemuaProduk();
        ModelMap mm = new ModelMap();
        mm.addAttribute("daftarProduk", hasil);
        return mm;
        //System.out.print("daftar Produk");
    }

    @RequestMapping(value = "/produk/form", method = RequestMethod.GET)
    public void inputProduk() {
        System.out.print("input Produk");
    }

    @RequestMapping(value = "/produk/form", method = RequestMethod.POST)
    public String prosesProduk(@ModelAttribute Produk p) throws Exception{
        p.setTerakhirUpdate(new Date());


        produkDao.simpan(p);

        return "redirect:list";
    }

}
```

2. Buatlah file `list-produk.jsp` untuk menampilkan data yang sudah disediakan oleh `ProdukController`

Jawab :

 File list.jsp

```
<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt" %>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@taglib prefix="f" uri="http://java.sun.com/jsp/jstl/fmt" %>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Daftar Produk</title>
<.../>
</head>
<body>
<section>
<h1>Daftar Produk</h1>
<table border="1">
<thead>
<tr>
<th>No</th>
<th>Kode</th>
<th>Nama</th>
<th>Harga</th>
<th>Terakhir Update</th>
<th>Aksi</th>
</tr>
</thead>
<tbody>
<c:forEach items="${daftarProduk}" var="p" varStatus="i">
<tr>
<td>${i.count}</td>
<td>${p.kode}</td>
<td>${p.nama}</td>
<td><fmt:formatNumber value="${p.harga}" type="number"></fmt:formatNumber></td>
<td><fmt:formatDate value="${p.terakhirUpdate}" pattern="EEE, dd MMM yyyy"></fmt:formatDate></td>
<td>
<a href="#">edit</a> |
<a href="#">hapus</a>
</td>
</tr>
</c:forEach>
</tbody>
</table>
<a href="form" class="button">Tambah Data</a>
</section>
</body>
</html>
```

3. Buatlah file `form-produk.jsp` untuk menginput data produk ke database

Jawab :

📁 File form.jsp

```
<%@page contentType="text/html" pageEncoding="windows-1252"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Tambah Produk</title>
    <.../>
  </head>
  <body>
    <section>
      <h1>Tambah Produk</h1>
      <form method="POST">
        <input type="text" name="kode" placeholder="Kode" required>
        <input type="text" name="nama" placeholder="Nama" required>
        <input type="text" name="harga" placeholder="Harga" required><br>
        <input type="submit" value="Simpan" class="button">
        <input type="reset" value="Batal" class="button">
      </form>
    </section>
  </body>
</html>
```

4. Pasang servlet Spring MVC di `web.xml`

Jawab :

📁 File web.xml

```
<web-app version="2.5" xmlns="http://java.sun.com/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd">

  <context-param>
    <param-name>contextConfigLocation</param-name>
    <param-value>/WEB-INF/produk-servlet.xml</param-value>
    <param-value>classpath:konfigurasi-db-spring.xml</param-value>
  </context-param>

  <listener>
    <listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>
  </listener>

  <servlet>
    <servlet-name>produk</servlet-name>
    <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
    <load-on-startup>1</load-on-startup>
  </servlet>

  <servlet-mapping>
    <servlet-name>produk</servlet-name>
    <url-pattern>/aplikasi/*</url-pattern>
  </servlet-mapping>

</web-app>
```

5. Buatlah konfigurasi Spring MVC

Jawab :

File produk-servlet.xml

```
<?xml version="1.0" encoding="windows-1252"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:mvc="http://www.springframework.org/schema/mvc"
       xmlns:context="http://www.springframework.org/schema/context"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="
         http://www.springframework.org/schema/beans
         http://www.springframework.org/schema/beans/spring-beans.xsd
         http://www.springframework.org/schema/context
         http://www.springframework.org/schema/context/spring-context.xsd
         http://www.springframework.org/schema/mvc
         http://www.springframework.org/schema/mvc/spring-mvc.xsd">

  <context:component-scan base-package="com.training.springmvc"/>
  <mvc:annotation-driven />

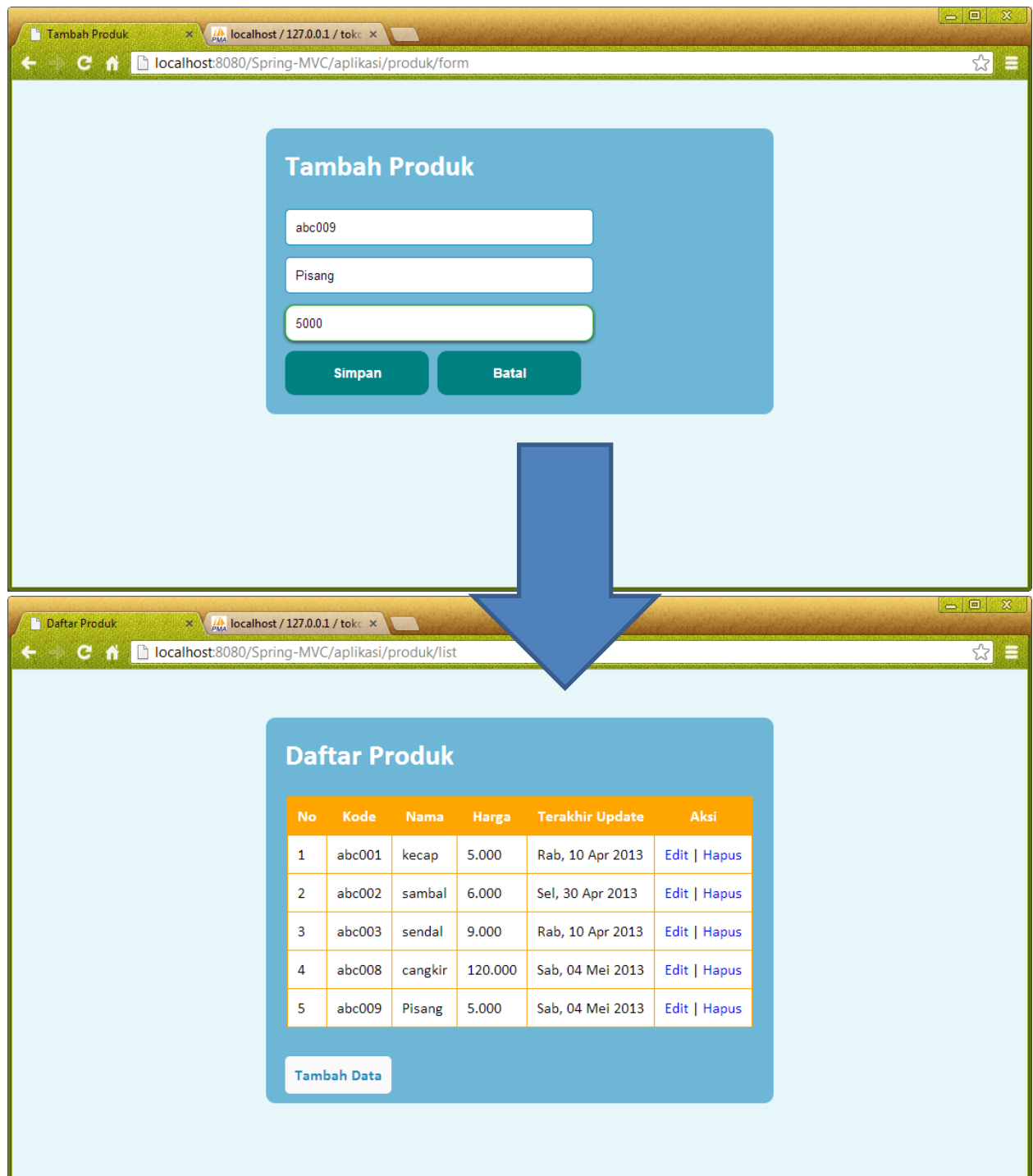
  <bean id="jspViewResolver" class="org.springframework.web.servlet.view.InternalResourceViewResolver">
    <property name="viewClass" value="org.springframework.web.servlet.view.JstlView"/>
    <property name="prefix" value="/WEB-INF/templates/jsp/" />
    <property name="suffix" value=".jsp"/>
  </bean>

</beans>
```

Display



Gambar 1. Tampilan halaman utama list.jsp



Gambar 2. Tampilan proses input produk pada form.jsp