ACTIVITY PERTEMUAN 1

NAMA: FADLI ARDIANSYAH HARAHAP

NPM: 50421437

KELAS: 4IA14

MATERI: -

MATA PRAKTIKUM: REKAYASA PERANGKAT LUNAK 2

KODE PROGRAM

1. PERTEMUAN6 50421437

```
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license */
  package me.akai;
import me.akai.controller.MahasiswaController;
  import me.akai.service.MahasiswaService;
  import me.akai.view.MahasiswaView:
  import org.springframework.boot.ApplicationArguments;
  import org.springframework.boot.ApplicationRunner;
  {\tt import org.springframework.boot.SpringApplication;}
  import org.springframework.boot.autoconfigure.SpringBootApplication;
  import org.springframework.beans.factory.annotation.Autowired;
  import org.springframework.context.ApplicationContext;
   * @author fadli
  */
   @SpringBootApplication
  public class Pertemuan6 50521437 implements ApplicationRunner {
      private MahasiswaService mahasiswaService;
      public static void main(String[] args) {
          System.setProperty("java.awt.headless", "false"); // Disable headless mode
 <?xml version="1.0" encoding="UTF-8"?>
```

POM.XML

```
<modelVersion>4.0.0</modelVersion>
    <groupId>me.akai</groupId>
    <artifactId>Pertemuan6_50521437</artifactId>
    <version>1.0-SNAPSHOT</version>
    <packaging>jar</packaging>
    properties>
       <maven.compiler.source>23</maven.compiler.source>
       <maven.compiler.target>23</maven.compiler.target>
 <exec.mainClass>me.akai.Pertemuan6_50521437</exec.mainClass>
    </properties>
    <parent>
       <groupId>org.springframework.boot</groupId>
       <artifactId>spring-boot-starter-parent</artifactId>
       <version>3.3.3
       <relativePath/>
    </parent>
    <dependencies>
       <!-- Hibernate + Spring Data JPA -->
       <dependency>
         <groupId>org.springframework.boot</groupId>
          <artifactId>spring-boot-starter-data-jpa</artifactId>
       </dependency>
```

3. MODELMAHASISWA

4. MAHASISWAREPOSITORY

```
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license

* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template

*/
package me.akai.model.ModelMahasiswa;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

@Repository
public interface MahasiswaRepository extends JpaRepository
*/
Integer> {
```

5. MAHASISWASERVICE

```
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
  * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
  package me.akai.service;
import me.akai.model.ModelMahasiswa;
  import me.akai.repository.MahasiswaRepository;
  import java.util.List;
  import org.springframework.beans.factory.annotation.Autowired;
  import org.springframework.stereotype.Service;
  @Service
  public class MahasiswaService {
      @Autowired
      private MahasiswaRepository repository;
     public void addMhs(ModelMahasiswa mhs) {
       repository.save(mhs);
      public ModelMahasiswa getMhs(int id) {
        return repository.findById(id).orElse(null);
      public void updateMhs(ModelMahasiswa mhs) {
          repository.save(mhs);
```

MAHASISWA CONTROLLER

```
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* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this

* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this

template

*/

package me.akai.controller;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import me.akai.model.ModelMahasiswa;
import me.akai.service.MahasiswaService;

import java.util.List;
import org.springframework.stereotype.Controller;

@Controller

public class MahasiswaController {

@Autowired

private MahasiswaService mahasiswaService;

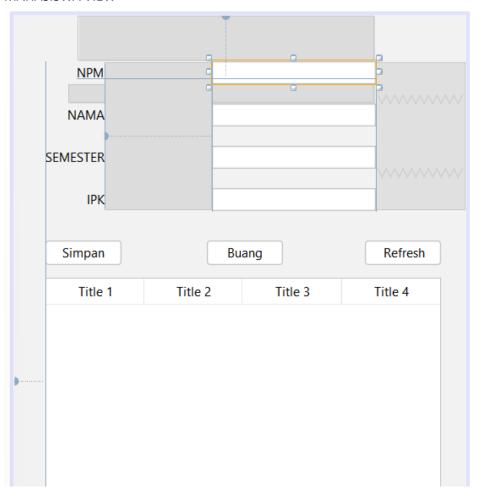
// Add new Mahasiswa

public String addMahasiswa (@RequestBody ModelMahasiswa mhs) {

mahasiswaService.addMns (mhs);

return "Mahasiswa added successfully";
```

7. MAHASISWA VIEW



```
/*

* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
   * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
  package me.akai.view;
import java.util.List;
  import me.akai.controller.MahasiswaController;
  import me.akai.model.ModelMahasiswa;
  import javax.swing.*;
  import me.akai.model.ModelTabelMahasiswa;
- /**
  * @author fadli
  public class MahasiswaView extends javax.swing.JFrame {
      private MahasiswaController controller;
      public MahasiswaView(MahasiswaController controller) {
          this.controller = controller;
          initComponents();
          loadMahasiswaTable();
```

8. MODELTABEL

```
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license

* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template

*/
package me.akai.model;

import javax.swing.table.AbstractTableModel;
import java.util.List;

public class ModelTabelMahasiswa extends AbstractTableModel(
    private List<ModelMahasiswa> mahasiswaList;
    private String[] columnNames = {"ID", "NPM", "Nama", "Semester", "IPK"};

public ModelTabelMahasiswa(List<ModelMahasiswa> mahasiswaList) {
    this.mahasiswaList = mahasiswaList;
}

### BOverride

public int getRowCount() {
    return mahasiswaList.size(); // Jumlah baris sesuai dengan jumlah data mahasiswa
```

9. APLICATIONPROPERTIES

```
# Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
# Click nbfs://nbhost/SystemFileSystem/Templates/Other/properties.properties to
# Konfigurasi MySQL Hibernate
spring.datasource.url=jdbc:mysql://localhost:3306/spring_50421437?useSSL=false&serverTimezone=UTC
spring.datasource.username=root
spring.datasource.password=
spring.datasource.driver-class-name=com.mysql.gi.jdbc.Driver
# Hibernate settings
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
```

- OUTPUT

<u>\$</u>				_		×
	NPM		50421431			
	NAMA		AKAI			
	SEMESTER		7			
	IPK		4			
	Simpan		Buang		Refresh	
	ID	NPM	Nama	Semester	IPK	
	1	50421431	AKAI	7	4.0	4