ACTIVITY PERTEMUAN 4

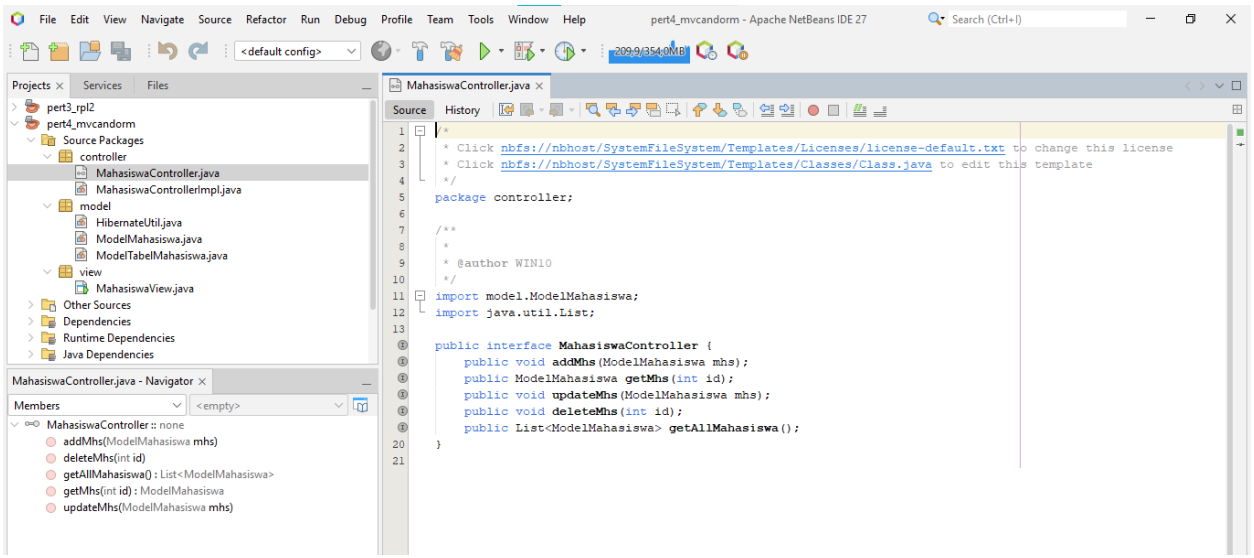
NAMA : Andi Purnama

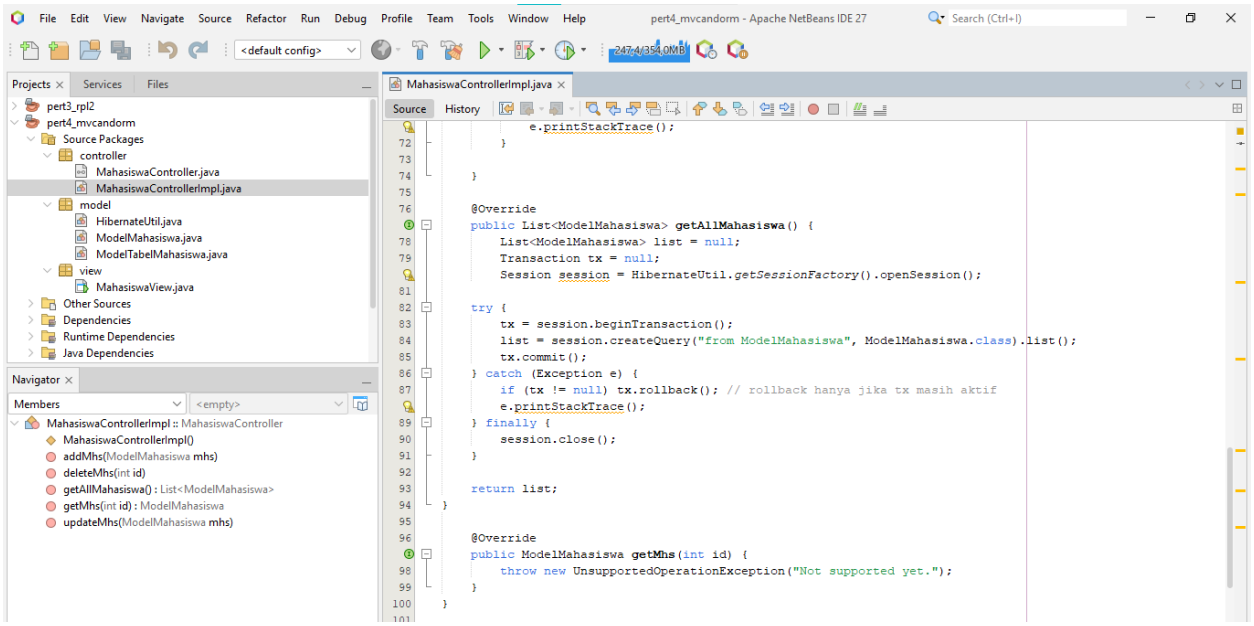
NPM : 50422215

KELAS : 4IA18

MATERI : Konsep Dasar ORM dan FRAMEWORK HIBERNATE

MATA PRAKTIKUM : Rekayasa Perangkat Lunak 2





HibernateUtil.java

Source | History

```java
/**
 *
 * @author WIN10
 */
import org.hibernate.SessionFactory;
import org.hibernate.Session;
import org.hibernate.cfg.Configuration;

public class HibernateUtil {
    private static SessionFactory sessionFactory;

    static {
        try {
            sessionFactory = (SessionFactory) new Configuration().configure().buildSessionFactory();
        } catch (Throwable ex) {
            System.err.println("Initial SessionFactory creation failed." + ex);
            throw new ExceptionInInitializerError(ex);
        }
    }

    public static SessionFactory getSessionFactory() {
        return sessionFactory;
    }
    public static void testConnection() {
        try (Session session = sessionFactory.openSession()) {
            System.out.println("Connection to the database was successful!");
        } catch (Exception e) {
            System.err.println("Failed to connect to the database.");
            e.printStackTrace();
        }
    }
```

HibernateUtil.java | ModelMahasiswa.java

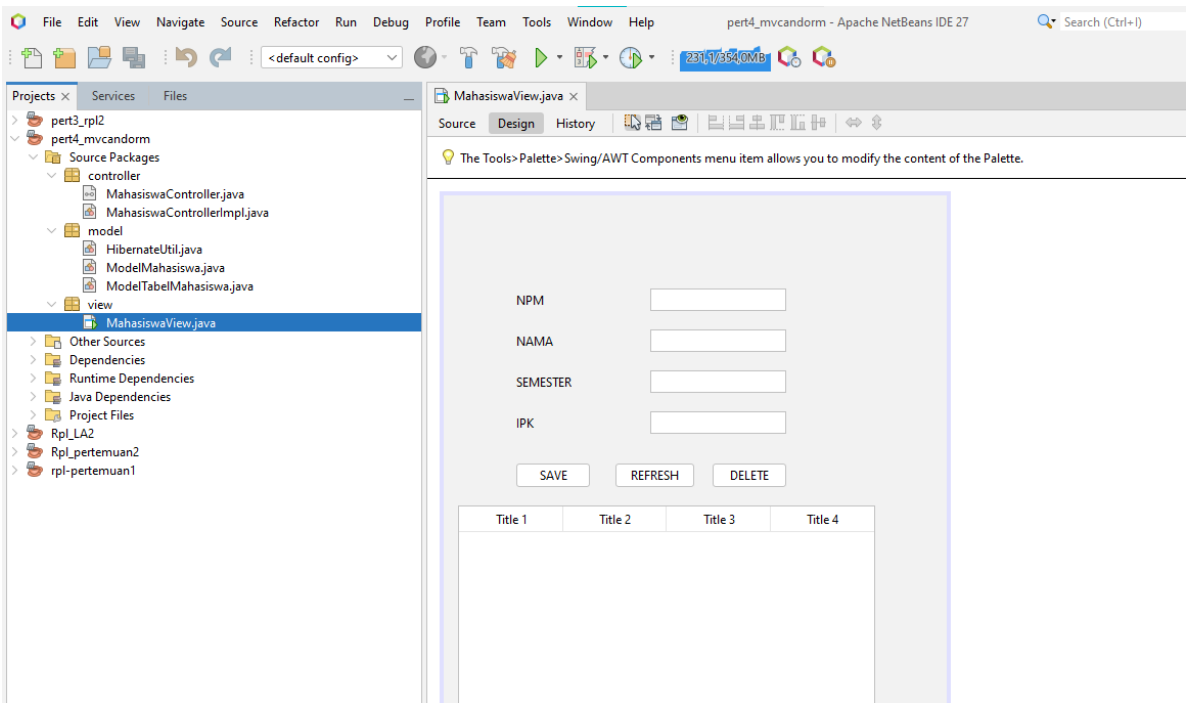
Source | History

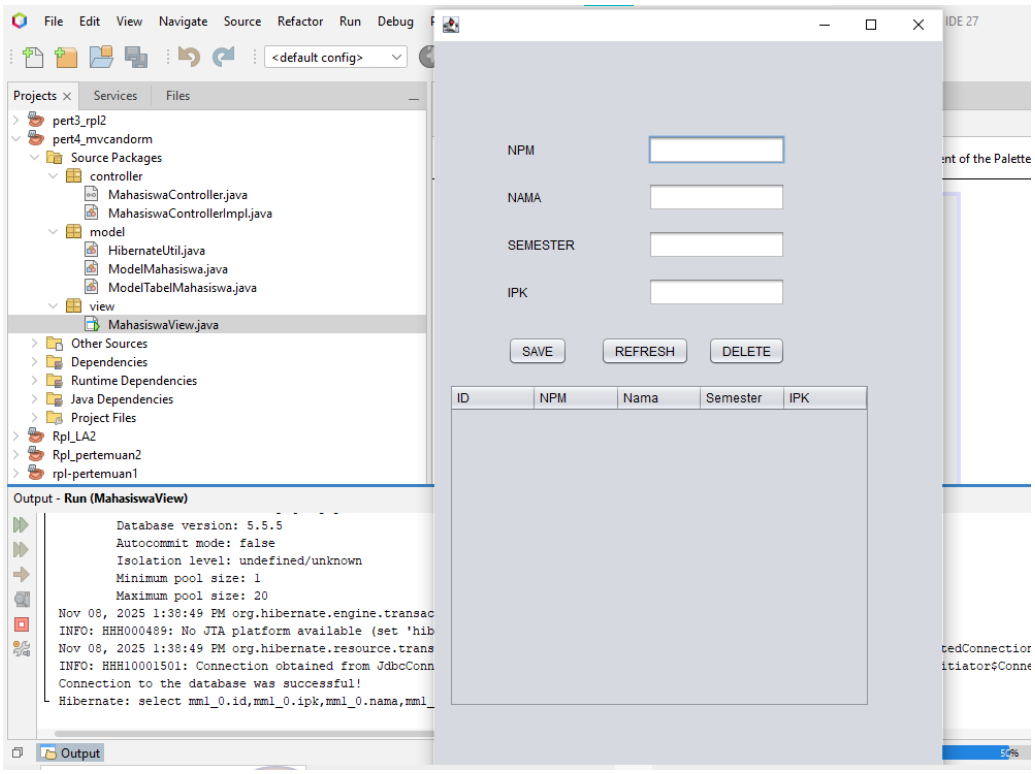
```java
        return npm;
    }

    public void setNpm(String npm) {
        this.npm = npm;
    }

    public String getNama() {
        return nama;
    }

    public void setNama(String nama) {
        this.nama = nama;
    }

    public int getSemester() {
        return semester;
    }

    public void setSemester(int semester) {
        this.semester = semester;
    }

    public float getIpk() {
        return ipk;
    }

    public void setIpk(float ipk) {
        this.ipk = ipk;
    }
}
```

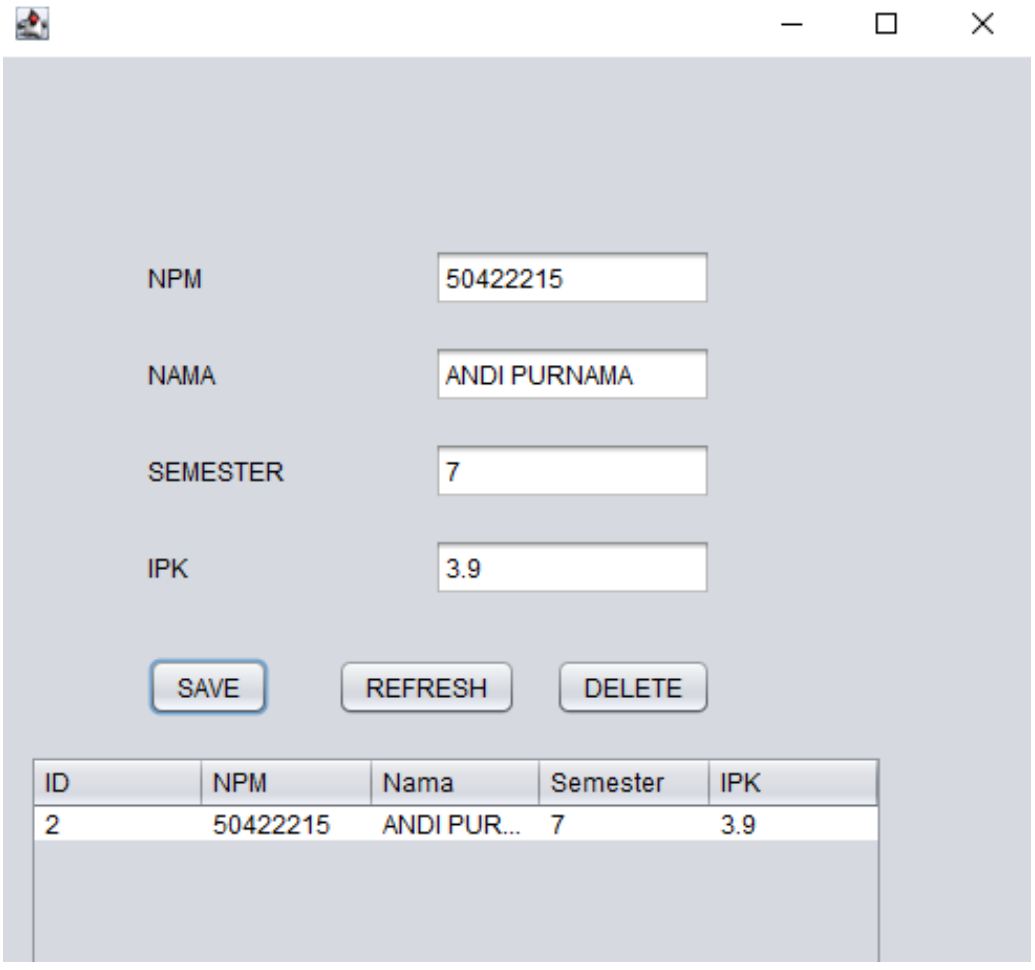
HibernateUtil.java | ModelMahasiswa.java | ModelTabelMahasiswa.java

Source | History

```
37                  case 0:
38                      return mahasiswa.getId();
39                  case 1:
40                      return mahasiswa.getNpm();
41                  case 2:
42                      return mahasiswa.getNama();
43                  case 3:
44                      return mahasiswa.getSemester();
45                  case 4:
46                      return mahasiswa.getIpk();
47                  default:
48                      return null;
49              }
50          }
51
52          @Override
53          public String getColumnName(int column) {
54              return columnNames[column]; // Mengatur nama kolom
55          }
56
57          @Override
58          public boolean isCellEditable(int rowIndex, int columnIndex) {
59              return false; // Semua sel tidak dapat diedit
60          }
61
62          // Method untuk menambahkan atau memodifikasi data, jika dibutuhkan
63          public void setMahasiswaList(List<ModelMahasiswa> mahasiswaList) {
64              this.mahasiswaList = mahasiswaList;
65              fireTableDataChanged(); // Memberitahu JTable bahwa data telah berubah
66          }
67
```




File Edit View Navigate Source Refactor Run Debug
<default config>
Projects
Services
Files
pert3_rpl2
pert4_mvcandorm
Source Packages
controller
MahasiswaController.java
MahasiswaControllerImpl.java
model
HibernateUtil.java
ModelMahasiswa.java
ModelTabelMahasiswa.java
view
MahasiswaView.java
Other Sources
Dependencies
Runtime Dependencies
Java Dependencies
Project Files
Rpl_LA2
Rpl_pertemuan2
rpl-pertemuan1
Output - Run (MahasiswaView)
Database version: 5.5.5
Autocommit mode: false
Isolation level: undefined/unknown
Minimum pool size: 1
Maximum pool size: 20
Nov 08, 2025 1:38:49 PM org.hibernate.engine.transac
INFO: HHH000489: No JTA platform available (set 'hib
Nov 08, 2025 1:38:49 PM org.hibernate.resource.trans
INFO: HHH10001501: Connection obtained from JdbcConn
Connection to the database was successful!
Hibernate: select mml_0.id,mml_0.ipk,mml_0.nama,mml_
Output
NPM
NAMA
SEMESTER
IPK
SAVE
REFRESH
DELETE
ID
NPM
Nama
Semester
IPK


NPM
50422215
NAMA
ANDI PURNAMA
SEMESTER
7
IPK
3.9
SAVE
REFRESH
DELETE
ID
NPM
Nama
Semester
IPK
2
50422215
ANDI PUR...
7
3.9