

Pertemuan 9

CRUD Master pada JAVA

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Memulai membuat Sistem Informasi

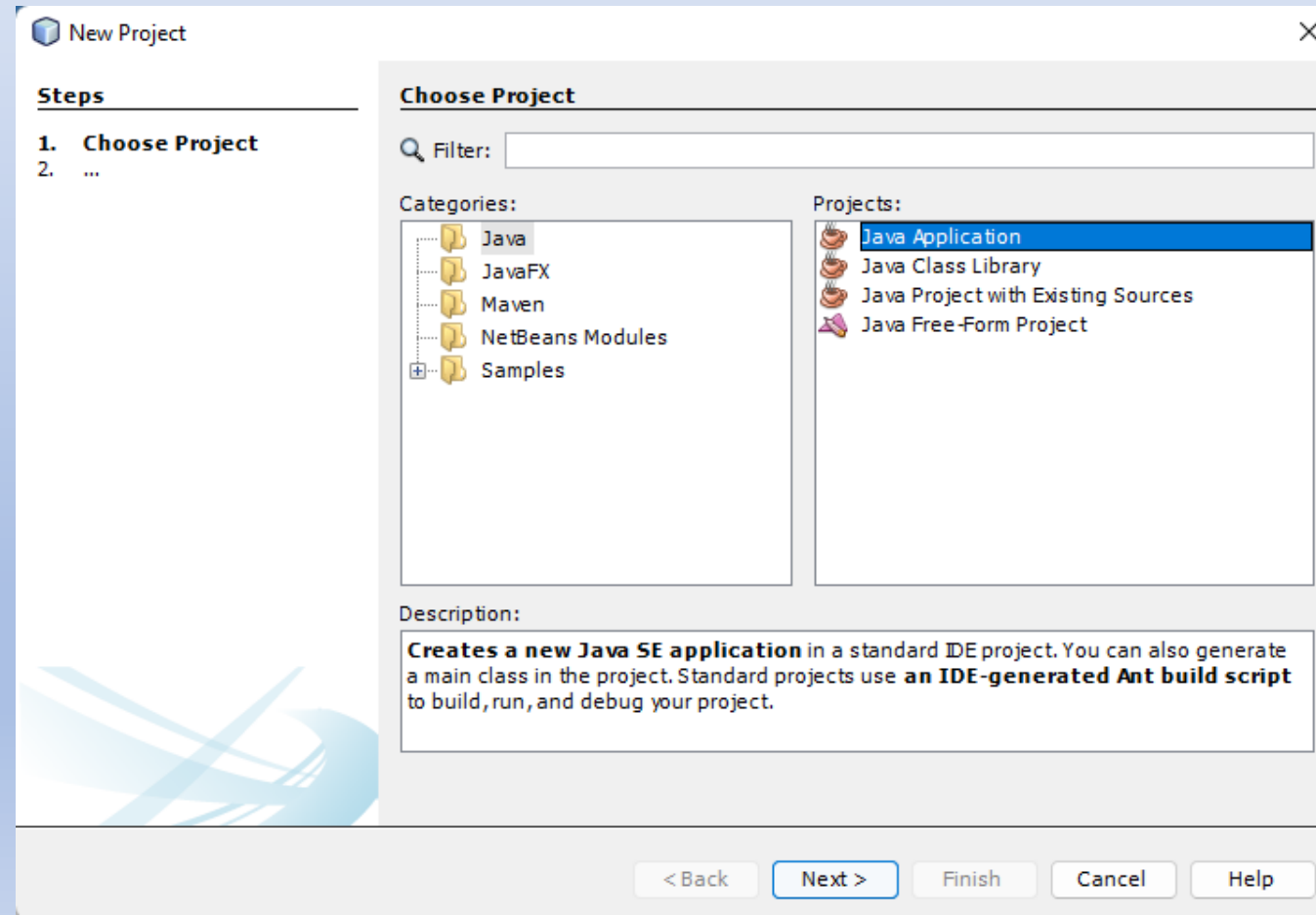
Untuk memulai membuat sistem informasi hal pertama yang harus dilakukan adalah Analisa data dan perancangan, sehingga sistem yang akan dibuat bisa sesuai dengan tujuan dan kebutuhan untuk pengguna, untuk java 1 ini yang dikerjakan hanya membuat system informasi sederhana. Untuk kebutuhan software adalah sebagai berikut:

- Java netbean 8.2
- Xampp V 3.2.2
- Browser untuk mengecek basis data

Tahap pertama

Membuat project sistem informasi pada java yaitu dengan cara:

Klik file → new project



New Java Application

×

Steps

1. Choose Project

2. **Name and Location**

Name and Location

Project Name:

Project Location:

Project Folder:

☐ Use Dedicated Folder for Storing Libraries

Libraries Folder:

Different users and projects can share the same compilation libraries (see Help for details).

☐ Create Main Class

< Back

Next >

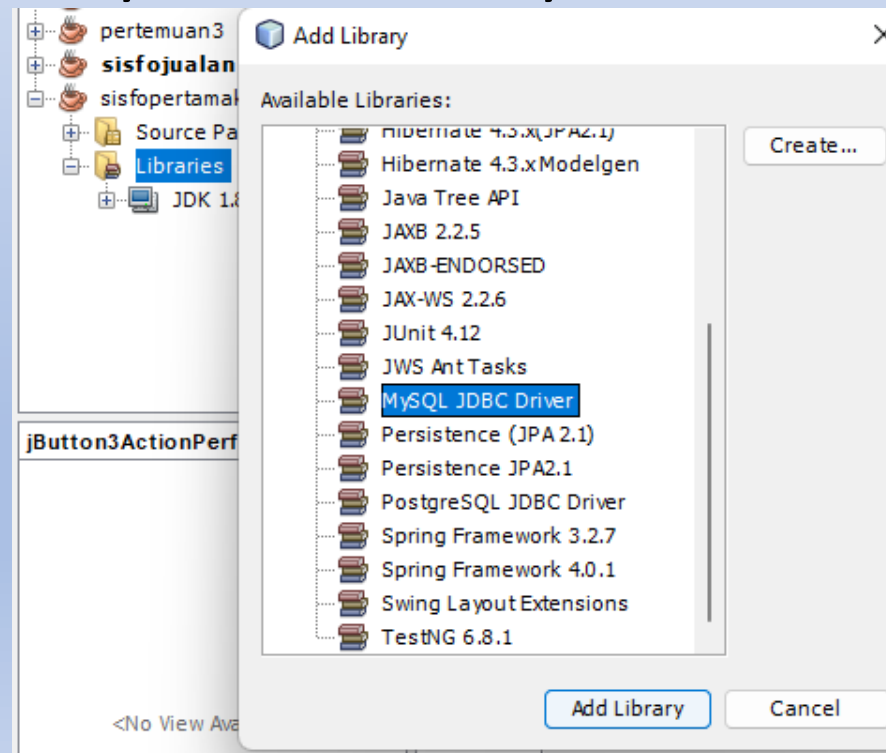
Finish

Cancel

Help

Seperti tahapan materi sebelumnya tambahkan library jdbc my sql ke netbean, caranya:

Klik kanan folder library → add library



Membuat koneksi basis data, ini ada sedikit perbedaan dengan koneksi basis data yang sebelumnya, untuk materi sebelumnya koneksi.java dibuat main class agar bisa mengecek langsung koneksi, sedangkan untuk pertemuan ini pengecekan langsung di lakukan di program sisfo nya.

New Java Class

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

Warning: It is highly recommended that you do not place Java classes in the default package.

< Back Next > **Finish** Cancel Help

Ketik koding berikut pada file config.java

```
5
6 import java.sql.Connection;
7 import java.sql.DriverManager;
8 import java.sql.SQLException;
9 /**
10  *
11  * @author irone
12  */
13 public class config {
14     private static Connection mysqlconfig;
15     public static Connection configDB() throws SQLException{
16         try {
17             String url="jdbc:mysql://localhost/jualan"; //url database
18             String user="root"; //user database
19             String pass=""; //password database
20             DriverManager.registerDriver(new com.mysql.jdbc.Driver());
21             mysqlconfig=DriverManager.getConnection(url, user, pass);
22         } catch (Exception e) {
23             System.err.println("koneksi gagal "+e.getMessage()); //perintah menampilkan error pada koneksi
24         }
25         return mysqlconfig;
26     }
27 }
28
```

Buat file datapetugas.java, dengan cara sebagai berikut:
Klik kanan project sisfopertamaku → new → jframefrom

New JFrame Form

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

Warning: It is highly recommended that you do not place Java classes in the default package.

< Back Next > **Finish** Cancel Help

Buat tampilan berikut, dengan spesifikasi yang di sebelah kiri:

The image shows a screenshot of an IDE with a Java project structure on the left and a GUI design for 'DATA PETUGAS' on the right.

Project Structure (Left):

- config.java
- datapetugas.java
- Test Packages
- Libraries
- Test Libraries
- sisfopertamaku
- Source Packages
- <default package>

Other Components - Na... (Left):

- Form datapetugas
 - Other Components
 - [JFrame]
 - jButton2 [JButton]
 - jButton3 [JButton]
 - jScrollPane2 [JScrollPane]
 - tabel [JTable]
 - label jLabel1 [JLabel]
 - label jLabel2 [JLabel]
 - label jLabel3 [JLabel]
 - label jLabel4 [JLabel]
 - no_nip [JTextField]
 - namapet [JTextField]
 - text_pass [JTextField]
 - jButton1 [JButton]

GUI Design (Right):

DATA PETUGAS

NIP

NAMA

PASSWORD

Tambah Edit Hapus

Title 1	Title 2	Title 3	Title 4

Output

Fungsi class utama

```
~/  
public class datapetugas extends javax.swing.JFrame {  
  
    /**  
     * Creates new form datapetugas  
     */  
    public datapetugas() {  
        initComponents();  
        load_table();  
        kosong();  
    }
```

Fungsi kosong

```
private void kosong(){  
    no_nip.setText(null);  
    namapet.setText(null);  
    text_pass.setText(null);  
}
```

Fungsi load tabel

```
private void load_table(){  
    // membuat tampilan model tabel  
    DefaultTableModel model = new DefaultTableModel();  
    model.addColumn("No");  
    model.addColumn("Nip");  
    model.addColumn("Nama petugas");  
    model.addColumn("password");  
  
    //menampilkan data database kedalam tabel
```

```
try {  
    int no=1;  
    String sql = "select * from petugas";  
    java.sql.Connection conn=(Connection)config.configDB();  
    java.sql.Statement stm=conn.createStatement();  
    java.sql.ResultSet res=stm.executeQuery(sql);  
    while(res.next()){  
        model.addRow(new  
Object[]{no++,res.getString(1),res.getString(2),res.getString(3)});  
    }  
    tabel.setModel(model);  
} catch (SQLException e) {  
}  
}
```

Fungsi tambah data

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    try {  
        String sql = "INSERT INTO petugas VALUES  
        ('"+no_nip.getText()+"', '"+namapet.getText()+"', '"+text_pass.getText()+"')";  
        java.sql.Connection conn=(Connection)config.configDB();  
        java.sql.PreparedStatement pst=conn.prepareStatement(sql);  
        pst.execute();  
        JOptionPane.showMessageDialog(null, "Penyimpanan Data Berhasil");  
    } catch (HeadlessException | SQLException e) {  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    } // TODO add your handling code here:  
    load_table();  
    kosong();  
}
```

Fungsi Edit data

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    // Edit Data  
    try {  
        String sql ="UPDATE petugas SET namapet = '"+namapet.getText()+"', pass =  
        '"+text_pass.getText()+"' WHERE nip = '"+no_nip.getText()+"'";  
        java.sql.Connection conn=(Connection)config.configDB();  
        java.sql.PreparedStatement pst=conn.prepareStatement(sql);  
        pst.execute();  
        JOptionPane.showMessageDialog(null, "data berhasil di edit");  
    } catch (HeadlessException | SQLException e) {  
        JOptionPane.showMessageDialog(null, "Perubahan Data Gagal"+e.getMessage());  
    }  
    load_table();  
    kosong();  
}
```

Fungsi hapus data

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    // fungsi hapus data  
    try {  
        String sql ="delete from petugas where nip='"+no_nip.getText()+"''";  
        java.sql.Connection conn=(Connection)config.configDB();  
        java.sql.PreparedStatement pst=conn.prepareStatement(sql);  
        pst.execute();  
        JOptionPane.showMessageDialog(this, "berhasil di hapus");  
    } catch (HeadlessException | SQLException e) {  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }  
    load_table();  
    kosong();  
}
```


Fungsi klik tabel

```
private void tabelMouseClicked(java.awt.event.MouseEvent evt) {  
    // TODO add your handling code here:  
    int baris = tabel.rowAtPoint(evt.getPoint());  
    String nip =tabel.getValueAt(baris, 1).toString();  
    no_nip.setText(nip);  
    String nama = tabel.getValueAt(baris,2).toString();  
    namapet.setText(nama);  
    String pass=tabel.getValueAt(baris, 3).toString();  
    text_pass.setText(pass);  
}
```

Tugas

Buat form berikut:

1. Form input konsumen
2. Form input barang

Terima Kasih
=== Selamat mengerjakan ===