

Final

Makassar, 20 Agustus 2020

**APLIKASI DATA KARYAWAN
PEMROGRAMAN JAVA LANJUT**



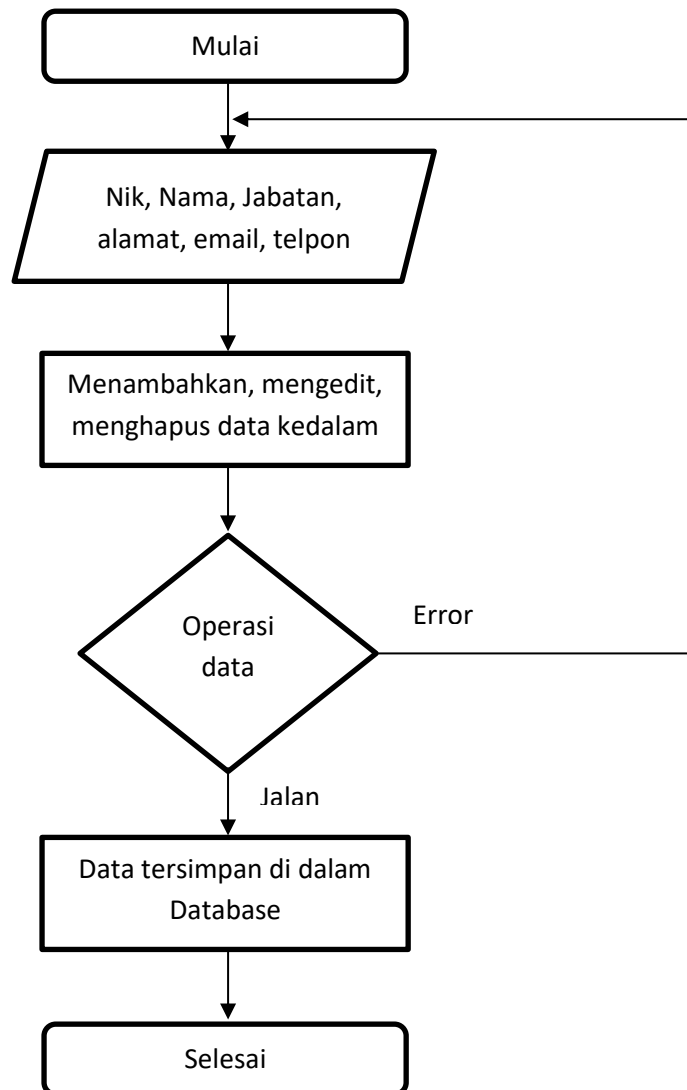
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**PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS ILMU KOMPUTER
UNIVERSITAS MUSLIM INDONESIA
MAKASSAR
2020**

Pendahuluan

Aplikasi ini yang dapat membantu suatu perusahaan ataupun instansi dalam melakukan proses penginputan data karyawan secara terstruktur.

Flow Chart



Source Code

- Koneksi ke database

```
1  /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6  package com.kruwell.program;
7
8  import java.sql.Connection;
9  import java.sql.DriverManager;
10 import java.sql.SQLException;
11
12 /**
13  *
14  * @author Hari Aspriyono
15  */
16 public class Konfig {
17
18     private static Connection MySQLConfig;
19
20     public static Connection configDB() throws SQLException {
21         try {
22             String url = "jdbc:mysql://localhost:3306/final";
23             String user = "root";
24             String pass = "";
25
26             DriverManager.registerDriver(new com.mysql.jdbc.Driver());
27             MySQLConfig = DriverManager.getConnection(url, user, pass);
28         } catch (SQLException e) {
29             System.out.println("Koneksi ke Database Gagal " + e.getMessage());
30         }
31
32         return MySQLConfig;
33     }
34 }
```

- Pengolahan data Karyawan

```
1  /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6  package com.kruwell.program;
7
8  import java.awt.HeadlessException;
9  import java.sql.Connection;
10 import javax.swing.table.DefaultTableModel;
11 import java.sql.SQLException;
12 import javax.swing.JOptionPane;
13
14 /**
15  *
16  * @author Hari Aspriyono
17  */
18 public class Karyawan extends javax.swing.JFrame {
19
20     private void kosongkan_form() {
21         txtNIK.setEditable(true);
22         txtNIK.setText(null);
23         txtNama.setText(null);
24         cbJabatan.setSelectedItem(this);
25         txtAlamat.setText(null);
26         txtEmail.setText(null);
27         txtTelp.setText(null);
28     }
29 }
```

```

30 private void tampilkan_data(){
31
32     DefaultTableModel model = new DefaultTableModel();
33     model.addColumn("No.");
34     model.addColumn("NIP");
35     model.addColumn("Nama Karyawan");
36     model.addColumn("Jabatan");
37     model.addColumn("Alamat");
38     model.addColumn("Email");
39     model.addColumn("No. Telpn");
40
41     try{
42         int no = 1;
43         String sql = "SELECT * FROM karyawan";
44         java.sql.Connection conn = (Connection)Konfig.configDB();
45         java.sql.Statement stm = conn.createStatement();
46         java.sql.ResultSet res = stm.executeQuery(sql);
47
48         while(res.next()){
49             model.addRow(new Object[]{no++,res.getString(1),res.getString(2)
50             });
51             tabelKaryawan.setModel(model);
52         }catch (SQLException e){
53             System.out.println("Error : " + e.getMessage());
54         }
55     }
56
57
58
59
60 public Karyawan() {
61     initComponents();
62     tampilkan_data();
63     kosongkan_form();
64 }
65
66 /**
67  * This method is called from within the constructor to initialize the form.
68  * WARNING: Do NOT modify this code. The content of this method is always
69  * regenerated by the Form Editor.
70  */
71 @SuppressWarnings("unchecked")
72 // Generated Code
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
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```

```

private void tbKeluarActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    System.exit(0);
}

private void tbTambahActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    kosongkan_form();
}

private void tbSimpanActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql = "INSERT INTO karyawan VALUES ('"+txtNIK.getText()+"','"+
        java.sql.Connection conn = (Connection)Konfig.configDB();
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null, "Proses Simpan Data Berhasil..")
        tampilkan_data();
        kosongkan_form();
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
}

private void tabelKaryawanMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    int baris = tabelKaryawan.rowAtPoint(evt.getPoint());
    String nik = tabelKaryawan.getValueAt(baris, 1).toString();
    txtNIK.setText(nik);

    String nama = tabelKaryawan.getValueAt(baris, 2).toString();
    txtNama.setText(nama);

    String jab = tabelKaryawan.getValueAt(baris, 3).toString();
    cbJabatan.setSelectedItem(jab);

    String alamat = tabelKaryawan.getValueAt(baris, 4).toString();
    txtAlamat.setText(alamat);
}

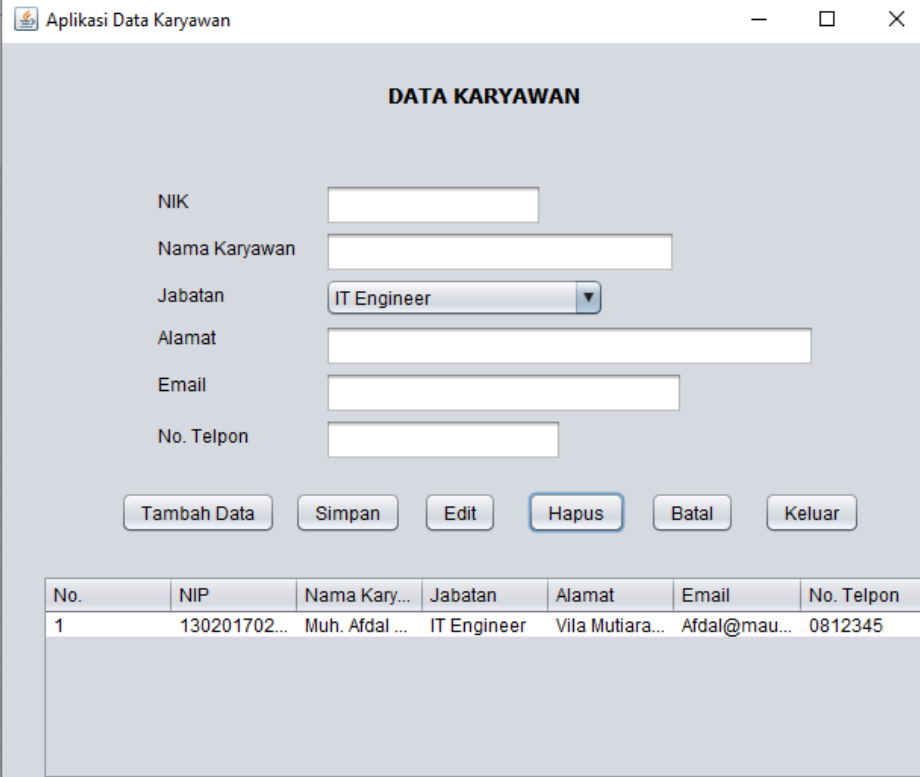
```

```

243     String email = tabelKaryawan.getValueAt(baris, 5).toString();
244     txtEmail.setText(email);
245
246     String telp = tabelKaryawan.getValueAt(baris, 6).toString();
247     txtTelp.setText(telp);
248
249 }
250
251 private void tbEditActionPerformed(java.awt.event.ActionEvent evt) {
252     // TODO add your handling code here:
253     try{
254         String sql = "UPDATE karyawan SET nik='"+txtNIK.getText()+"',nama='";
255         java.sql.Connection conn = (Connection)Konfig.configDB();
256         java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);
257         pstmt.execute();
258         JOptionPane.showMessageDialog(null, "Edit Data Berhasil...");
259     }catch(HeadlessException | SQLException e){
260         JOptionPane.showMessageDialog(this, e.getMessage());
261     }
262     tampilkan_data();
263     kosongkan_form();
264 }
265
266 private void tbHapusActionPerformed(java.awt.event.ActionEvent evt) {
267     // TODO add your handling code here:
268     try{
269         String sql = "DELETE FROM karyawan WHERE nik='"+txtNIK.getText()+"'";
270         java.sql.Connection conn = (Connection)Konfig.configDB();
271         java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);
272         pstmt.execute();
273
274         JOptionPane.showMessageDialog(null, "Hapus Data Berhasil...");
275     }catch(HeadlessException | SQLException e){
276         JOptionPane.showMessageDialog(this, e.getMessage());
277     }
278     tampilkan_data();
279     kosongkan_form();
280
281 private void tbBatalActionPerformed(java.awt.event.ActionEvent evt) {
282     // TODO add your handling code here:
283     kosongkan_form();
284 }
285
286 /**
287  * @param args the command line arguments
288  */
289 public static void main(String args[]) {
290     /* Set the Nimbus look and feel */
291     Look and feel setting code (optional)
292
293     /* Create and display the form */
294     java.awt.EventQueue.invokeLater(new Runnable() {
295         public void run() {
296             new Karyawan().setVisible(true);
297         }
298     });
299 }
300
301 // Variables declaration - do not modify
302 private javax.swing.JComboBox<String> cbJabatan;
303 private javax.swing.JLabel jLabel1;
304 private javax.swing.JLabel jLabel2;
305 private javax.swing.JLabel jLabel3;
306 private javax.swing.JLabel jLabel4;
307 private javax.swing.JLabel jLabel5;
308 private javax.swing.JLabel jLabel6;
309 private javax.swing.JLabel jLabel7;
310 private javax.swing.JScrollPane jScrollPane1;
311 private javax.swing.JTable tabelKaryawan;
312 private javax.swing.JButton tbBatal;
313 private javax.swing.JButton tbEdit;
314 private javax.swing.JButton tbHapus;
315 private javax.swing.JButton tbKeluar;
316 private javax.swing.JButton tbSimpan;
317 private javax.swing.JButton tbTambah;
318 private javax.swing.JTextField txtAlamat;
319 private javax.swing.JTextField txtEmail;
320 private javax.swing.JTextField txtNIK;
321 private javax.swing.JTextField txtNama;
322 private javax.swing.JTextField txtTelp;
323 // End of variables declaration
324 }
325

```

- Output



DATA KARYAWAN

NIK

Nama Karyawan

Jabatan

Alamat

Email

No. Telpun

No.	NIP	Nama Kary...	Jabatan	Alamat	Email	No. Telpun
1	130201702...	Muh. Afdal ...	IT Engineer	Vila Mutiara...	Afdal@mau...	0812345

- Kesimpulan

Aplikasi ini memudahkan bagi perusahaan dalam melakukan pengolahan data kepada setiap karyawan yang terdaftar

- Saran

Adapun aplikasi di atas masih jauh dari kata sempurna masih banyak keterbatasan dalam pengolahan data, jadi saran dan kritik dari teman-teman sekalian sangat diharapkan guna perkembangan dan kelengkapan dari aplikasi penginputan data karyawan ini

- Daftar Pustaka

<https://www.tutupkurung.com/2018/12/contoh-aplikasi-database-sederhana-java-mysql.html>