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Prodi : S1 Teknologi Informasi

`   **Praktek Form Cari Pegawai**

1. Buat Form Cari Pegawai seperti pada gambar berikut:

Sesuaikan properti seperti ini:

No	Komponen	Variabel Name	Properties	Keterangan
1	JTextField	txtCariNama		Isian Nama Pegawai
2	JButton	btnCari	Text = Cari	Tombol Cari
3	JButton	btnKeluar	Text = Keluar	Tombol Keluar
4	JTable	tblPegawai	Model = TableModle	Menampilakan tabel

2. Siapkan model untuk pegawai. Di package "Model" tambahkan file CariPegawai.java -> isikan script berikut (buat method geΣer dan seΣer untuk semua variabel yang dibutuhkan):

```java
9       * @author user
10      */
11     public class CariPegawai {
12         private String kodepeg,namapeg,alamat,jabatan,username,password,jkel;
13
14         public String getKodepeg() {
15             return kodepeg;
16         }
17
18         public void setKodepeg(String kodepeg) {
19             this.kodepeg = kodepeg;
20         }
21
22         public String getNamapeg() {
23             return namapeg;
24         }
25
26         public void setNamapeg(String namapeg) {
27             this.namapeg = namapeg;
28         }
29
30         public String getAlamat() {
31             return alamat;
32         }
33
34         public void setAlamat(String alamat) {
35             this.alamat = alamat;
36         }
37
```

```java
38         public String getJabatan() {
39             return jabatan;
40         }
41
42         public void setJabatan(String jabatan) {
43             this.jabatan = jabatan;
44         }
45
46         public String getUsername() {
47             return username;
48         }
49
50         public void setUsername(String username) {
51             this.username = username;
52         }
53
54         public String getPassword() {
55             return password;
56         }
57
58         public void setPassword(String password) {
59             this.password = password;
60         }
61
62         public String getJkel() {
63             return jkel;
64         }
65
```

```java
45
46      public String getUsername() {
47          return username;
48      }
49
50      public void setUsername(String username) {
51          this.username = username;
52      }
53
54      public String getPassword() {
55          return password;
56      }
57
58      public void setPassword(String password) {
59          this.password = password;
60      }
61
62      public String getJkel() {
63          return jkel;
64      }
65
66      public void setJkel(String jkel) {
67          this.jkel = jkel;
68      }
69
70  }
71
```

3. Buat file tabelModelCariPegawai.java di Package = "Model", lalu tambahkan script berikut untuk mengatur tampilan di dalam tblPegawai yang ditampilkan dalam View FormCariPegawai.java

```java
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/licens
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.j
4   */
5  package model;
6
7  import java.util.List;
8  import javax.swing.table.AbstractTableModel;
9
10 /**
11  *
12  * @author MyBook Hype
13  */
14 public class TabelModelCariPegawai extends AbstractTableModel {
15     List<Pegawai> listPgw;
16
17     public TabelModelCariPegawai(List<Pegawai>listPgw){
18         this.listPgw = listPgw;
19     }
20
```

```java
21        @Override
          public int getRowCount() {
23            return listPgw.size();
24        }
25
26        @Override
          public int getColumnCount() {
28            return 5;
29        }
30
31     @Override
       public Object getValueAt(int row, int column){
33         return switch (column){
34             case 0 -> listPgw.get(row).getKodepeg();
35             case 1 -> listPgw.get(row).getNamapeg();
36             case 2 -> listPgw.get(row).getAlamat();
37             case 3 -> listPgw.get(row).getJkel();
38             case 4 -> listPgw.get(row).getJabatan();
39             case 5 -> listPgw.get(row).getUsername();
40             case 6 -> listPgw.get(row).getPassword();
41             default -> null;
42         };
43     }
44
45        @Override
          public String getColumnName(int column){
47            return switch(column){
48                case 0 -> "Kode Pegawai";
```

```
44
45        @Override
    ⊙  □  public String getColumnName(int column){
47            return switch(column){
48                case 0 -> "Kode Pegawai";
49                case 1 -> "namapeg";
50                case 2 -> "Alamat";
51                case 3 -> "jkel";
52                case 4 -> "Jabatan";
53                case 5 -> "Username";
54                case 6 -> "Password";
55                default -> null;
56            };
57        }
58
59    }
60
61
62
```

4. Buat file daoCariPegawai.java di package "dao" dalam file ini digunakan untuk pengaturan data yang dibutuhkan untuk ditampilkan ke View Form. Sesuaikan source code nya seperti gambar berikut:

```
1  □  /*
2      * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt t
3      * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit thi
4      */
5  package dao;
6
7  □  import controller.koneksi;
8     import java.sql.Connection;
9     import java.sql.PreparedStatement;
10    import java.sql.ResultSet;
11    import java.sql.SQLException;
12    import java.sql.Statement;
13    import java.util.ArrayList;
14    import java.util.List;
15    import javax.swing.JOptionPane;
16    import model.*;
17
18  □  /**
19      *
20      * @author MyBook Hype
21      */
22    public class daoCariPegawai {
23        Connection connection;
24        final String select = "SELECT * FROM pegawai ORDER BY namapeg ASC;";
25        final String selectData = "SELECT * FROM pegawai WHERE namapeg LIKE %?%;";
26        final String cari = "SELECT * FROM pegawai WHERE namapeg LIKE ?;";
27  □      public daoCariPegawai(){
28        connection = koneksi.connection();
```

```java
29          }
30          public void tampil(Pegawai pgw){
            PreparedStatement statement = null;
32              try {
33                  statement = connection.prepareStatement(select);
34                  statement.setString(1, pgw.getKodepeg());
35                  statement.executeUpdate();
36              }catch (SQLException ex){
37                  JOptionPane.showMessageDialog(null, ex);
38              }
39          }
40          public List<Pegawai> getData(){
41              List<Pegawai> listPgw = null;
42              try {
43                  listPgw = new ArrayList<>();
44                  Statement st = connection.createStatement();
45                  ResultSet rs = st.executeQuery(select);
46                  while (rs.next()){
47                      Pegawai pgw = new Pegawai();
48                      pgw.setKodepeg(rs.getString("Kodepeg"));
49                      pgw.setNamapeg(rs.getString("namapeg"));
50                      pgw.setAlamat(rs.getString("Alamat"));
51                      pgw.setJkel(rs.getString("jkel"));
52                      pgw.setJabatan(rs.getString("Jabatan"));
53                      pgw.setUsername(rs.getString("Username"));
54                      pgw.setPassword(rs.getString("Password"));
55                      listPgw.add(pgw);
56                  }
57              }catch (SQLException ex){
58                  JOptionPane.showMessageDialog(null, ex);
59              }
60              return listPgw;
61          }
62
63          public List<Pegawai> getCariData(String namapeg){
            PreparedStatement statement = null;
65              List<Pegawai> listPgw = null;
66              try {
67                  listPgw = new ArrayList<>();
68  //                Statement st = connection.createStatement();
69  //                ResultSet rs = st.executeQuery(selectData);
70                  statement = connection.prepareStatement(cari);
71                  statement.setString(1, "%" + namapeg + "%");
72                  ResultSet rs = statement.executeQuery();
73                  while (rs.next()){
74                      Pegawai pgw = new Pegawai();
75                      pgw.setKodepeg(rs.getString("Kodepeg"));
76                      pgw.setNamapeg(rs.getString("namapeg"));
77                      pgw.setAlamat(rs.getString("Alamat"));
78                      pgw.setJkel(rs.getString("jkel"));
79                      pgw.setJabatan(rs.getString("Jabatan"));
80                      pgw.setUsername(rs.getString("Username"));
81                      pgw.setPassword(rs.getString("Password"));
82                      listPgw.add(pgw);
83                  }
84              }catch (SQLException ex){
```

```
85                          JOptionPane.showMessageDialog(null, ex);
86                      }
87                  return listPgw;
88              }
89      public int cekNama(String namapeg){
            PreparedStatement statement = null;
91          int ketemu = 0;
92          try {
93                  statement = connection.prepareStatement(selectData);
94                  statement.setString(1, namapeg);
95                  ResultSet rs = statement.executeQuery(cari);
96                  while(rs.next()) {
97                      ketemu++;
98                  }
99          }catch (SQLException ex){
100
101         }
102         return ketemu;
103     }
104
105
106 }
107
```

5. Dilanjutkan dengan file controllerCariPegawai.java yang kita buat di package controller. Pada file ini digunakan untuk menjembatani komunikasi antara view dengan dao. Sesuaikan source code nya sehingga seperti pada gambar berikut:

```
1   /*
2    * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt t
3    * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit thi
4    */
5   package controller;
6   //import dao.daoCariBarang;
7   import dao.daoCariPegawai;
8   import java.util.List;
9   import javax.swing.JOptionPane;
10  import model.*;
11  import view.FormCariPegawai;
12
13  /**
14   *
15   * @author MyBook Hype
16   */
17  public class controllerCariPegawai {
18      FormCariPegawai frame;
        List<Pegawai>listPgw;
20      List<Pegawai> listCariPgw;
21      daoCariPegawai daoCariPgw = new daoCariPegawai();
22      public controllerCariPegawai(FormCariPegawai frame){
23          this.frame = frame;
24          listPgw = daoCariPgw.getData();
25          listCariPgw = daoCariPgw.getCariData(frame.getTxtNamaPgw().getText());
26      }
27
28      public void tampil_tabel() {
```

```
29            TabelModelCariPegawai tabelPgw = new TabelModelCariPegawai(listCariPgw);
30            frame.getTblPegawai().setModel(tabelPgw);
31        }
32
33        public void tampilFilter_tabel(){
34            TabelModelCariPegawai tabelPgw = new TabelModelCariPegawai(listCariPgw);
35            frame.getTblPegawai().setModel(tabelPgw);
36        }
37
38        public void cekNamaPgw() {
39            if (frame.getTxtNamaPgw().getText().equals("")) {
40                JOptionPane.showMessageDialog(frame, "Nama Pegawai belum diisi");
41            } else {
42                daoCariPgw.getCariData(frame.getTxtNamaPgw().getText());
43                // daoCariBrg.cekNama(frame.getTxtNamaBrg().getText());
44                tampilFilter_tabel();
45            }
46        }
47
48        public void keluar() {
49            frame.dispose();
50        }
51
52    }
53
```

6. Terakhir sesuaikan script untuk FormCariPegawai.java

```
1   /*
2    * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt t
3    * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit t
4    */
5   package view;
6
7   import controller.controllerCariPegawai;
    import javax.swing.JScrollPane;
9   import javax.swing.JTable;
10  import javax.swing.JTextField;
    import model.*;
12
13  /**
14   *
15   * @author MyBook Hype
16   */
17  public class FormCariPegawai extends javax.swing.JFrame {
18      controllerCariPegawai Carpeg;
19
20      public JTextField getTxtNamaPgw() {
21          return TxtCariNama;
22      }
23
24      public void setTxtNamaPgw(String TxtNamaPgw) {
25          this.TxtCariNama.setText(TxtNamaPgw);
26      }
27
28      public JTable getTblPegawai() {
```

```java
29              return tblPegawai;
30          }
31
32          public void setTblPegawai(JTable tblPegawai) {
33              this.tblPegawai = tblPegawai;
34          }
35
36
37
38          /**
39           * Creates new form FormCariPegawai
40           */
41          public FormCariPegawai() {
42              initComponents();
43              Carpeg = new controllerCariPegawai(this);
44              Carpeg.tampil_tabel();
45          }
46
47
48          public void tampilkantabel(){
49              Carpeg = new controllerCariPegawai(this);
50              Carpeg.tampil_tabel();
51          }
52
53
54          /**
55           * This method is called from within the constructor to initialize the form.
56           * WARNING: Do NOT modify this code. The content of this method is always
57           * regenerated by the Form Editor.
58           */
59          @SuppressWarnings("unchecked")
60          Generated Code
194
195         private void tblPegawaiMouseClicked(java.awt.event.MouseEvent evt) {
196             // TODO add your handling code here:
197         }
198
199         private void BtnCariActionPerformed(java.awt.event.ActionEvent evt) {
200             // TODO add your handling code here:
201             Carpeg.cekNamaPgw();
202             tampilkantabel();
203         }
204
205         private void BtnKeluarActionPerformed(java.awt.event.ActionEvent evt) {
206             // TODO add your handling code here:
207             Carpeg.keluar();
208         }
209
210         /**
211          * @param args the command line arguments
212          */
213         public static void main(String args[]) {
214             /* Set the Nimbus look and feel */
215             Look and feel setting code (optional)
236
237             /* Create and display the form */
```

```
236
237              /* Create and display the form */
                 java.awt.EventQueue.invokeLater(new Runnable() {
                     public void run() {
240                      new FormCariPegawai().setVisible(true);
241                  }
242              });
243          }
244
245      // Variables declaration - do not modify
246      private javax.swing.JButton BtnCari;
247      private javax.swing.JButton BtnKeluar;
248      private javax.swing.JTextField TxtCariNama;
249      private javax.swing.JLabel jLabel2;
250      private javax.swing.JLabel jLabel4;
251      private javax.swing.JPanel jPanel2;
252      private javax.swing.JPanel jPanel3;
253      private javax.swing.JScrollPane jScrollPanel;
254      private javax.swing.JTable tblPegawai;
255      // End of variables declaration
256
257      }
```

7. Setelah selesai, jalankan!

FORM CARI PEGAWAI

Cari Data Pegawai :   zai   [Cari] [Keluar]

Kode Pegawai	namapeg	Alamat	jkel	Jabatan
24.06.05.002	zaidan	kediri	L	siswa
24.06.05.003	zaidan	kediri	L	guru