

**LAPORAN PROGRESS
PEMROGRAMAN BERORIENTASI OBJECT
(PBO)**

**“MEMBUAT APLIKASI PEMBELIAN TIKET KERETA API
DENGAN NETBEANS IDE”**



Dosen pembimbing
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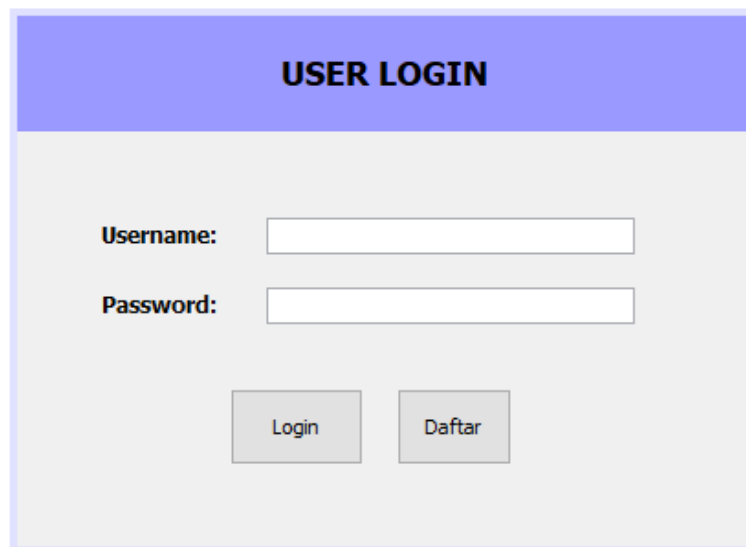
**PROGRAM STUDI TEKNIK INFORMATIKA
POLITEKNIK KAMPAR**

2020

**“PEMAHAMAN TENTANG PEMBUATAN
APLIKASI PEMBELIAN TIKET KERETA API”**

1. Form pertama adalah USER LOGIN yang mana pengguna aplikasi akan memasukkan Username dan Password untuk memasuki menu utama dari aplikasi.

Jika tidak memiliki akun untuk masuk pada form tersebut, maka pengguna dapat melakukan daftar akun pada button yang tersedia.



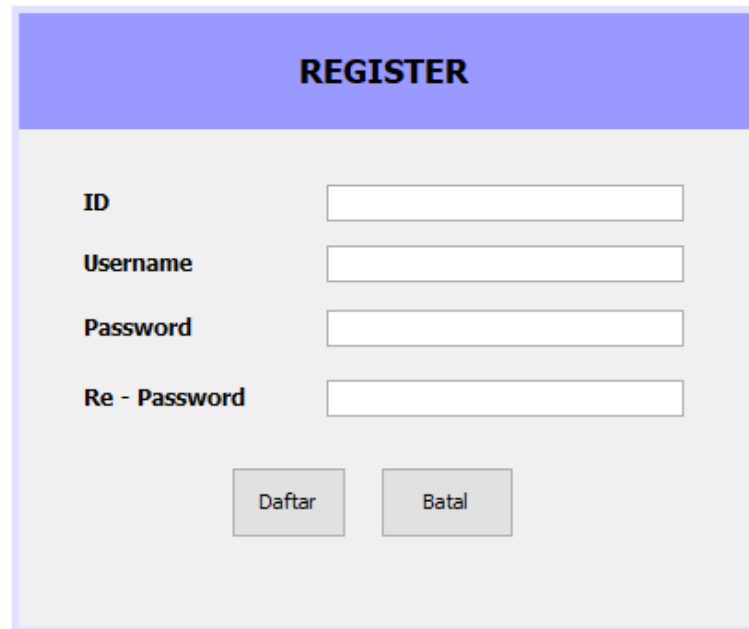
The image shows a user login form with a blue header bar containing the text "USER LOGIN". Below the header, there are two input fields: "Username:" and "Password:". At the bottom of the form, there are two buttons: "Login" and "Daftar".

USER LOGIN	
Username:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Login"/>	<input type="button" value="Daftar"/>

2. Pada source code ini tidak ada masalah dan source code tersebut berjalan tanpa adanya kendala.

```
1 package login;
2
3 import java.sql.Connection;
4 import java.sql.ResultSet;
5 import java.sql.SQLException;
6 import java.sql.Statement;
7 import javax.swing.JOptionPane;
8
9 public class Login extends javax.swing.JFrame {
10
11     /** Creates new form Login ...3 lines */
12     public Login() {
13         initComponents();
14     }
15
16     /** This method is called from within the constructor to initialize the form ...5 lines */
17     @SuppressWarnings("unchecked")
18     Generated Code
19
20 private void btnLoginActionPerformed(java.awt.event.ActionEvent evt) {
21     // TODO add your handling code here:
22     try{
23         Connection c = Koneksi.getKoneksi();
24         Statement s = c.createStatement();
25
26         String sql = "SELECT * FROM login WHERE Username='" + txUsername.getText()
27             + "' and Password='" + txPassword.getText() + "'";
28         ResultSet r = s.executeQuery(sql);
29
30         if (r.next()){
31             JOptionPane.showMessageDialog(null, "Login Berhasil");
32             this.dispose(); //close the form
33
34         }else{
35             JOptionPane.showMessageDialog(null, "Username dan Password Salah");
36             txPassword.requestFocus();
37         }
38     }catch(SQLException e){
39         System.out.println("error");
40     }
41 }
42
43 private void btnDaftarActionPerformed(java.awt.event.ActionEvent evt) {
44     // TODO add your handling code here:
45     this.dispose();
46     Register a = new Register();
47     a.setVisible(true);
48 }
49
50 /**
51  * @param args the command line arguments
52  */
53 public static void main(String args[]) {
54     /** Set the Nimbus look and feel */
55     Look and feel setting code (optional)
56
57     /** Create and display the form */
58     java.awt.EventQueue.invokeLater(new Runnable() {
59         public void run() {
60             new Login().setVisible(true);
61         }
62     });
63 }
```

3. Form REGISTER, pada form ini adalah dimana pengguna mendaftarkan akun agar dapat memasuki menu utama dari aplikasi Pembelian Tiket KAI.



The image shows a web form titled "REGISTER" in a blue header. Below the header, there are four input fields for registration: ID, Username, Password, and Re - Password. At the bottom of the form, there are two buttons: "Daftar" (Register) and "Batal" (Cancel).

REGISTER	
ID	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>
Re - Password	<input type="text"/>
<input type="button" value="Daftar"/> <input type="button" value="Batal"/>	

4. Pada Source Code ini tidak ada masalah dan source code berjalan tanpa adanya kendal

```
1  ...5 lines
6  package login;
7
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 javax.swing.JOptionPane;
14
15 /**...4 lines */
19 public class Register extends javax.swing.JFrame {
20
21     /** Creates new form Register ...3 lines */
24     public Register() {
25         initComponents();
26         txID.setEnabled(false);
27         autonumber();
28     }
29
30     private void autonumber(){
31         try{
32             Connection c = Koneksi.getKoneksi();
33             try (Statement s = c.createStatement()) {
34                 String sql = "SELECT * FROM login ORDER BY id DESC";
35                 ResultSet r = s.executeQuery(sql);
36                 if (r.next()) {
37                     String NoID = r.getString("id").substring(2);
38                     String ID = "" + (Integer.parseInt(NoID)+1);
39                     String Zero = "";
40
41                     if (ID.length()==1)
```

```

42         {Zero = "00";}
43         else if (ID.length() == 2)
44         {Zero = "0";}
45         else if (ID.length() == 3)
46         {Zero = "";}
47
48         txID.setText("Pengguna" + Zero + ID);
49     }else{
50         txID.setText("Pengguna 01");
51     }
52     r.close();
53 }
54 }catch (NumberFormatException | SQLException e){
55     System.out.println("autonumber error");
56 }
57 }
58
59 /** This method is called from within the constructor to initialize the form ...5 lines */
60 @SuppressWarnings("unchecked")
61 Generated Code
62
63 private void tDaftarActionPerformed(java.awt.event.ActionEvent evt) {
64     // TODO add your handling code here:
65     String id = txID.getText().toString().trim();
66     String username = txUsername.getText().toString().trim();
67     String password = txPassword.getText().toString().trim();
68     String RePassword = txRePassword.getText().toString().trim();
69
70     if (!password.equals(RePassword)) {
71         JOptionPane.showMessageDialog(null, "Password Tidak Sesuai");
72     } else if (password.equals("") || username.equals("")) {
73         JOptionPane.showMessageDialog(null, "Username or Password tidak terdaftar");
74     } else {
75         try {
76             Connection c = Koneksi.getKoneksi();
77             String sql = "INSERT INTO Login VALUES (?, ?, ?)";
78             PreparedStatement p = c.prepareStatement(sql);
79             p.setString(1, id);
80             p.setString(2, username);
81             p.setString(3, password);
82             p.executeUpdate();
83             p.close();
84             JOptionPane.showMessageDialog(null, "Pembuatan Akun Berhasil");
85         } catch (SQLException e) {
86             System.out.println("Error");
87         } finally {
88             this.dispose();
89             Login a = new Login();
90             a.setVisible(true);
91         }
92     }
93 }
94
95 private void tBatalActionPerformed(java.awt.event.ActionEvent evt) {
96     // TODO add your handling code here:
97     this.dispose();
98     Login a = new Login();
99     a.setVisible(true);
100 }
101
102 /**...3 lines */
103 public static void main(String args[]) { ...31 lines }

```

5. Form ini adalah tampilan dari menu utama aplikasi Pembelian Tiket Kereta Api, dalam form ini pengguna akan mengisi data diri untuk membeli tiket yang dituju.

The screenshot shows a Java Swing window titled "KAI ACCESS". Inside the window, there is a form for purchasing train tickets. The form is organized into two main columns. The left column contains a "Kelas Kereta" section with a "Jurusan" dropdown menu (showing "Pilih"), two radio buttons for "Jenis" (Ekonomi and Bisnis), and a "Harga" text field. The right column contains five text fields for "Nomor Kursi", "Nama Penumpang", "Jumlah Beli", "Total Bayar", "Uang Bayar", and "Uang Kembali". At the bottom of the form, there are three buttons: "Input Lagi", "Keluar", and "Cetak". Below the buttons is a large empty rectangular area, likely for a receipt or additional information.

6. Pada source code ini tidak adanya masalah dan source code berjalan tanpa adanya kendala.

```
1 package TiketKAI;
2
3 import javax.swing.JOptionPane;
4
5 public class TiketKAI extends javax.swing.JFrame {
6     int ekonomi, bisnis, harga, beli, total, bayar, kembali;
7     /**
8      * Creates new form TiketKAI
9      */
10    public TiketKAI() {
11        initComponents();
12    }
13
14    /**
15     * This method is called from within the constructor to initialize the form.
16     * WARNING: Do NOT modify this code. The content of this method is always
17     * regenerated by the Form Editor.
18     */
19    @SuppressWarnings("unchecked")
20    Generated Code
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245         if (Jurusan.getSelectedItemAt().equals("Pilih Jurusan")){
246             buttonGroup1.clearSelection();
247             txtHarga.setText("");
248         }
249         else if (Jurusan .getSelectedItem().equals("Tanjung Balai")){
250             ekonomi = 34000;
251             bisnis = 145000;
252         }
253         else if (Jurusan .getSelectedItem().equals("Kisaran")){
254             ekonomi = 27000;
255             bisnis = 130000;
256         }
257         else if (Jurusan .getSelectedItem().equals("Medan")){
258             ekonomi = 27000;
259             bisnis = 140000;
260         }
261     }
262
263     private void jkEkonomiActionPerformed(java.awt.event.ActionEvent evt) {
264         // TODO add your handling code here: menampilkan harga setelah memilih kelas Ekonomi
265         if (jkEkonomi.isSelected()){
266             txtHarga.setText(String.valueOf(ekonomi));
267         }
268     }
269
270     private void jkBisnisActionPerformed(java.awt.event.ActionEvent evt) {
271         // TODO add your handling code here: menampilkan harga setelah memilih kelas Bisnis
272         if (jkBisnis.isSelected()){
273             txtHarga.setText(String.valueOf(bisnis));
274         }
275     }

```

```

275     }
276
277     private void txtJumlahBeliActionPerformed(java.awt.event.ActionEvent evt) {
278         // TODO add your handling code here: menginput jumlah tiket dan pembayaran
279         beli = Integer.parseInt(txtJumlahBeli.getText());
280         harga = Integer.parseInt(txtHarga.getText());
281         total = bayar * harga;
282     }
283
284     private void txtJumlahBeliKeyReleased(java.awt.event.KeyEvent evt) {
285         // TODO add your handling code here:
286         int a, b, c;
287         a = Integer.valueOf(txtHarga.getText());
288         b = Integer.valueOf(txtJumlahBeli.getText());
289         c = a * b;
290         txtTotalBayar.setText("" + c);
291     }
292
293     private void txtUangBayarKeyReleased(java.awt.event.KeyEvent evt) {
294         // TODO add your handling code here:
295         int a, b, c;
296         a = Integer.valueOf(txtUangBayar.getText());
297         b = Integer.valueOf(txtTotalBayar.getText());
298         c = a - b;
299         txtUangKembali.setText("" + c);
300     }
301
302     private void btnInputActionPerformed(java.awt.event.ActionEvent evt) {
303         // TODO add your handling code here:
304         buttonGroup1.clearSelection();

```



```

305         txtHarga.setText("");
306         Jurusan.setSelectedItem("Pilih Jurusan");
307         txtKursi.setText("");
308         txtNama.setText("");
309         txtJumlahBeli.setText("");
310         txtTotalBayar.setText("");
311         txtUangBayar.setText("");
312         txtUangKembali.setText("");
313     }
314
315     private void btnKeluarActionPerformed(java.awt.event.ActionEvent evt) {
316         // TODO add your handling code here:
317         int answer = JOptionPane.showConfirmDialog(null, "Anda Yakin Keluar?", "Keluar", JOptionPane.OK_OPTION);
318         if (answer == JOptionPane.OK_OPTION) {
319             dispose();
320         }
321     }
322
323     private void btnCetakActionPerformed(java.awt.event.ActionEvent evt) {
324         // TODO add your handling code here:
325         btnCetak.setText("(" + Jurusan.getSelectedItem() + ")");
326         txtArea.setText(
327             "Nomor Kursi      : " + txtKursi.getText() + "\n" +
328             "Nama Penumpang      : " + txtNama.getText() + "\n" +
329             "Jumlah Beli           : " + txtJumlahBeli.getText() + "\n" +
330             "Total Bayar           : " + txtTotalBayar.getText() + "\n" +
331             "Uang Bayar            : " + txtUangBayar.getText() + "\n" +
332             "Uang Kembali          : " + txtUangKembali.getText() + "\n" );
333     }
334

```