

Final Project Praktikum Pemrograman Berorientasi Objek
Aplikasi Pendaftaran Sekolah dasar



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Latar belakang pembuatan program

Pembuatan program aplikasi pendaftaran sekolah dasar didasari oleh kebutuhan untuk menyederhanakan dan mempercepat proses pendaftaran peserta didik baru (PPDB) di jenjang sekolah dasar. Permendikbud Nomor 1 Tahun 2023 mengatur berbagai aspek terkait PPDB SD, termasuk persyaratan usia masuk, jalur pendaftaran, dan tahapan pelaksanaannya[2][5].

Pendaftaran PPDB SD dapat dilakukan secara daring maupun luring, bergantung pada kebijakan masing-masing daerah[3].

Terdapat beberapa jalur pendaftaran PPDB SD, seperti jalur afirmasi, jalur prestasi, jalur perpindahan tugas orang tua/wali, dan jalur zonasi, yang merupakan jalur penerimaan paling banyak dengan kuota hingga 70% dari daya tampung sekolah[4].

Dengan adanya regulasi ini, dibutuhkan sistem yang efisien untuk mengelola proses pendaftaran sesuai dengan ketentuan yang berlaku, sehingga muncul kebutuhan akan pengembangan program aplikasi pendaftaran sekolah dasar.

Program ini diharapkan dapat memudahkan sekolah dalam mengelola dan memonitor proses pendaftaran sesuai dengan ketentuan yang berlaku, serta memberikan akses yang lebih mudah bagi masyarakat untuk mendaftarkan anak-anak mereka ke sekolah dasar.

Unsur atau Konsep Pemrograman Berorientasi Objek yang dilibatkan

1.bayar

```
package frame;

public class Bayar extends javax.swing.JFrame {

    public Bayar() {
        initComponents();
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN: initComponents
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        kembali = new javax.swing.JButton();
    }
}
```

G)

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addComponent(jLabel1)
    .addGap(220, 220, 220))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addComponent(jLabel2)
    .addGap(142, 142, 142))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addComponent(jLabel4)
    .addGap(196, 196, 196))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addComponent(jLabel5)
    .addGap(250, 250, 250))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addComponent(jLabel6)
    .addGap(242, 242, 242))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addComponent(kembali, javax.swing.GroupLayout.PREFERRED_SIZE, 109,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(63, 63, 63))))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(39, 39, 39)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(jLabel2)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jLabel3)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 244,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel5)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel6)
            .addGap(18, 18, 18)
            .addComponent(kembali, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addContainerGap(34, Short.MAX_VALUE))
    );

    pack();
    setLocationRelativeTo(null);
} // </editor-fold> // GEN-END: initComponents

// tombol kembali
private void kembaliActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_kembaliActionPerformed
    Home hm = new Home();
    hm.setVisible(true);
    this.dispose();
} // GEN-LAST:event_kembaliActionPerformed

public static void main(String args[]) {

    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Bayar().setVisible(true);
        }
    });
}

// Variables declaration - do not modify // GEN-BEGIN:variables
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JButton kembali;
// End of variables declaration // GEN-END:variables
}

```

terdapat beberapa unsur pemrograman berorientasi objek (OOP). Berikut adalah beberapa dari mereka:

- Kelas (`class`)
 - ****Kelas `Bayar`****: Ini adalah kelas utama dalam kode Anda yang menggambarkan sebuah jendela GUI (antarmuka pengguna grafis).
- Konstruktor
 - ****Metode `Bayar()`****: Ini adalah konstruktor kelas `Bayar`. Konstruktor ini dipanggil saat objek kelas `Bayar` dibuat.

- Atribut
 - ****Variabel GUI (`jLabel1`, `jLabel2`, dll.)****: Mereka adalah atribut-atribut yang mewakili komponen GUI seperti label dan tombol.
 - Metode
 - ****`initComponents()`****: Metode ini digunakan untuk menginisialisasi komponen GUI yang dibuat secara visual.
 - ****`kembaliActionPerformed()`****: Metode ini dipanggil saat tombol "Kembali" ditekan. Ini memicu tindakan untuk menutup jendela `Bayar` dan membuka jendela `Home`.
 - Penggunaan GUI
 - ****Penyusunan Komponen****: Penempatan dan penyesuaian komponen GUI dilakukan di dalam metode `initComponents()` menggunakan pengaturan layout.
 - ****Tombol dan Label****: Penggunaan tombol (`kembali`) dan label (`jLabel1`, `jLabel2`, dst.) untuk menampilkan teks dan gambar pada GUI.
 - Metode `main()`
 - ****`main()`****: Metode yang memulai program. Di sini, objek dari kelas `Bayar` dibuat dan ditampilkan.
- Inheritance (Pewarisan)
- Tidak ada contoh langsung pewarisan dalam kode tersebut, tetapi dalam pengembangan GUI yang lebih besar, biasanya ada pewarisan antara kelas GUI (misalnya, kelas yang mengatur jendela) untuk memudahkan pengelolaan.
- Perhatian
- Kode yang Anda bagikan adalah bagian dari aplikasi GUI dengan Java Swing. Ini adalah pendekatan berorientasi objek untuk membuat antarmuka pengguna dengan menggunakan komponen-komponen yang mewarisi dari kelas-kelas dalam Java Swing.

2.home

```
package frame;

public class Home extends javax.swing.JFrame {

    public Home() {
        initComponents();
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code"> //GEN-BEGIN: initComponents
    private void initComponents() {

        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
```

```

jLabel9 = new javax.swing.JLabel();
jLabel10 = new javax.swing.JLabel();
jLabel11 = new javax.swing.JLabel();
jLabel12 = new javax.swing.JLabel();
button2 = new javax.swing.JButton();
button1 = new javax.swing.JButton();
button3 = new javax.swing.JButton();
button4 = new javax.swing.JButton();
button6 = new javax.swing.JButton();
button5 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
setBackground(java.awt.Color.darkGray);

jLabel7.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
jLabel7.setText("PENDAFTARAN");
jLabel7.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));

jLabel8.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
jLabel8.setText("JADWAL");
jLabel8.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));

jLabel9.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
jLabel9.setText("PROSEDUR");
jLabel9.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));

jLabel10.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
jLabel10.setText("PERSYARATAN");
jLabel10.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));

jLabel11.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
jLabel11.setText("PEMBAYARAN");
jLabel11.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));

jLabel12.setFont(new java.awt.Font("Segoe UI", 1, 12)); // NOI18N
jLabel12.setText("LOG OUT");
jLabel12.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));

button2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/frame/calendar.png"))); // NOI18N
button2.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
button2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        button2ActionPerformed(evt);
    }
});

```

```

button1.setIcon(new
javafx.swing.ImageIcon(getClass().getResource("/frame/register.png"))); // NOI18N
button1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        button1ActionPerformed(evt);
    }
});

button3.setIcon(new
javafx.swing.ImageIcon(getClass().getResource("/frame/process.png"))); // NOI18N
button3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        button3ActionPerformed(evt);
    }
});

button4.setIcon(new
javafx.swing.ImageIcon(getClass().getResource("/frame/requirement.png"))); // NOI18N
button4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        button4ActionPerformed(evt);
    }
});

button6.setIcon(new javafx.swing.ImageIcon(getClass().getResource("/frame/logout.png")));
// NOI18N
button6.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        button6ActionPerformed(evt);
    }
});

button5.setIcon(new javafx.swing.ImageIcon(getClass().getResource("/frame/cash-
payment.png"))); // NOI18N
button5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        button5ActionPerformed(evt);
    }
});

javafx.swing.GroupLayout layout = new javafx.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javafx.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()

```



```

        .addContainerGap(77, Short.MAX_VALUE)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
G)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
ING)
        .addComponent(button1)
        .addComponent(button4))
        .addComponent(jLabel7)
        .addComponent(jLabel10))
        .addGap(133, 133, 133)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
G)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
DING, false)
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel12)
        .addGap(100, 100, 100)
        .addComponent(jLabel11))
        .addGroup(layout.createSequentialGroup())
        .addComponent(button6)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
D, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(button5)))
        .addGap(217, 217, 217))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
DING)
        .addComponent(button2)
        .addGroup(layout.createSequentialGroup())
        .addGap(6, 6, 6)
        .addComponent(jLabel8)))
        .addGap(124, 124, 124)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
DING)
        .addGroup(layout.createSequentialGroup())
        .addGap(6, 6, 6)
        .addComponent(jLabel9))
        .addComponent(button3))
        .addGap(139, 139, 139))))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()

```

```

        .addGap(111, 111, 111)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
G)
                                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
                                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
ILING)
                                    .addComponent(button1, javax.swing.GroupLayout.PREFERRED_SIZE, 63,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                    .addComponent(button2, javax.swing.GroupLayout.PREFERRED_SIZE, 63,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                    .addComponent(button3, javax.swing.GroupLayout.PREFERRED_SIZE, 63,
javax.swing.GroupLayout.PREFERRED_SIZE))
                                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
ELINE)
                                        .addComponent(jLabel7)
                                        .addComponent(jLabel8)
                                        .addComponent(jLabel9))
                                        .addGap(76, 76, 76)
                                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
ILING)
                                            .addComponent(button5, javax.swing.GroupLayout.PREFERRED_SIZE, 63,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                            .addComponent(button4, javax.swing.GroupLayout.PREFERRED_SIZE, 63,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                                            .addComponent(button6, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 63,
javax.swing.GroupLayout.PREFERRED_SIZE))
                                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
NE)
                                                .addComponent(jLabel12)
                                                .addComponent(jLabel10)
                                                .addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED_SIZE, 16,
javax.swing.GroupLayout.PREFERRED_SIZE))
                                                .addContainerGap(115, Short.MAX_VALUE))
);

pack();
setLocationRelativeTo(null);
} // </editor-fold> //GEN-END: initComponents

private void button2ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_button2ActionPerformed
Jadwal Jdl = new Jadwal();

```

```

        Jdl.setVisible(true);
        this.dispose();
    }//GEN-LAST:event_button2ActionPerformed

    private void button1ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_button1ActionPerformed
        Pendaftaran Pdf = new Pendaftaran();
        Pdf.setVisible(true);
        this.dispose();
    }//GEN-LAST:event_button1ActionPerformed

    private void button3ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_button3ActionPerformed
        Prosedur Psr = new Prosedur();
        Psr.setVisible(true);
        this.dispose();
    }//GEN-LAST:event_button3ActionPerformed

    private void button4ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_button4ActionPerformed
        Persayaratan Pyr = new Persayaratan();
        Pyr.setVisible(true);
        this.dispose();
    }//GEN-LAST:event_button4ActionPerformed

    private void button6ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_button6ActionPerformed
        Bayar Byr = new Bayar();
        Byr.setVisible(true);
        this.dispose();
    }//GEN-LAST:event_button6ActionPerformed

    private void button5ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_button5ActionPerformed

        loginScreen Login = new loginScreen();
        Login.setVisible(true);
        this.dispose();
    }//GEN-LAST:event_button5ActionPerformed

    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

```

```

        * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
        */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Home().setVisible(true);
        }
    });
}

// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JButton button1;
private javax.swing.JButton button2;
private javax.swing.JButton button3;
private javax.swing.JButton button4;
private javax.swing.JButton button5;
private javax.swing.JButton button6;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;

```

```
// End of variables declaration//GEN-END:variables  
}
```

berbagai konsep dalam pemrograman berorientasi objek (OOP) dalam Java:

- Kelas ('class')
 - ****Kelas 'Home'**: Merupakan kelas yang menggambarkan jendela utama dalam aplikasi Anda. Memiliki fungsi-fungsi untuk menginisialisasi, menampilkan, dan mengatur komponen-komponen GUI.**
- Konstruktor
 - ****Metode 'Home()'**: Konstruktor kelas 'Home' yang dipanggil saat objek kelas 'Home' dibuat.**
- Atribut
 - ****Variabel GUI ('jLabel7', 'jLabel8', dst.)**: Mereka adalah atribut-atribut yang mewakili label pada antarmuka pengguna.**
- Metode
 - ****' initComponents()'**: Metode untuk menginisialisasi dan mengatur komponen-komponen GUI seperti label dan tombol.**
 - ****' actionPerformed()'**: Metode-metode ini dipanggil saat tombol-tombol dijalankan untuk melakukan aksi tertentu seperti membuka jendela baru atau menutup jendela saat ini.**
- Penggunaan GUI
 - ****Tombol dan Label**: Dalam metode ' initComponents()', pengaturan komponen GUI dilakukan dengan menambahkan label dan tombol serta memberi aksi pada tombol tersebut.**
- Metode 'main()'
 - ****' main()'**: Metode utama yang memulai program. Di sini, objek dari kelas 'Home' dibuat dan ditampilkan.**
- Pembuatan dan Pengelolaan Jendela
 - ****Pembuatan Jendela Baru**: Saat tombol-tombol ditekan, jendela-jendela baru seperti 'Jadwal', 'Pendaftaran', 'Prosedur', 'Persyaratan', 'Bayar', dan 'loginScreen' dibuat dan ditampilkan.**
- Penggunaan ImageIcon
 - ****Penggunaan Gambar**: Gambar-gambar dari direktori proyek Anda digunakan dalam tombol-tombol GUI dengan ' ImageIcon'.**

3.jadwal

```
package frame;  
  
import java.awt.Color;  
  
public class Jadwal extends javax.swing.JFrame {
```

```

public Jadwal() {
    initComponents();

}

@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code"> //GEN-
BEGIN: initComponents
private void initComponents() {

    jLabel2 = new javax.swing.JLabel();
    jLabel1 = new javax.swing.JLabel();
    jPanel1 = new javax.swing.JPanel();
    jLabel6 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
    jLabel9 = new javax.swing.JLabel();
    kembali = new javax.swing.JButton();
    daftar = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setBackground(new java.awt.Color(102, 102, 102));

    jLabel2.setFont(new java.awt.Font("Segoe UI", 1, 18)); // NOI18N
    jLabel2.setText("PENDAFTARAN PESERTA DIDIK BARU");

    jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 20)); // NOI18N
    jLabel1.setText("JUNI - JULI 2024");

    jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/frame/logo-
sd1.png"))); // NOI18N

    jLabel3.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
    jLabel3.setText("PMB SD NEGERI 03 SOLOK");
    jLabel3.setVerticalAlignment(javax.swing.SwingConstants.BOTTOM);

    jLabel4.setFont(new java.awt.Font("Segoe UI", 1, 20)); // NOI18N
    jLabel4.setText("Jadwal PMB ONLINE");
    jLabel4.setVerticalAlignment(javax.swing.SwingConstants.TOP);
    jLabel4.setAlignmentY(0.0F);

```

```

jLayeredPane1.setLayer(jLabel6, javax.swing.JLayeredPane.DEFAULT_LAYER);
jLayeredPane1.setLayer(jLabel3, javax.swing.JLayeredPane.DEFAULT_LAYER);
jLayeredPane1.setLayer(jLabel4, javax.swing.JLayeredPane.DEFAULT_LAYER);

javax.swing.GroupLayout jLayeredPane1Layout = new
javax.swing.GroupLayout(jLayeredPane1);
jLayeredPane1.setLayout(jLayeredPane1Layout);
jLayeredPane1Layout.setHorizontalGroup(
    jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jLayeredPane1Layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel3)
                .addComponent(jLabel4))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 343,
Short.MAX_VALUE)
            .addComponent(jLabel6)
            .addGap(68, 68, 68))
        );
jLayeredPane1Layout.setVerticalGroup(
    jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jLayeredPane1Layout.createSequentialGroup()
            .addGap(19, 19, 19)
            .addGroup(jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jLayeredPane1Layout.createSequentialGroup()
                    .addComponent(jLabel3)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 81,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap(19, Short.MAX_VALUE))
        );

jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel5.setText("Pelaksanaan penerimaan peserta didik baru sekolah dasar");
jLabel5.setVerticalAlignment(javax.swing.SwingConstants.BOTTOM);

jLabel7.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel7.setText("akan dilaksanakan pada bulan Juni - Juli 2024. Calon peserta");

```



```

jLabel7.setVerticalAlignment(javax.swing.SwingConstants.TOP);

jLabel8.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel8.setText("dimohon untuk mengisi formulir pendaftaran diaplikasi ini.");
jLabel8.setVerticalAlignment(javax.swing.SwingConstants.TOP);

jLabel9.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel9.setText("Kegiatan Belajar Mengajar akan dilaksanakan pada 20 juli 2024");
jLabel9.setVerticalAlignment(javax.swing.SwingConstants.TOP);

kembali.setBackground(new java.awt.Color(51, 0, 204));
kembali.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
kembali.setForeground(new java.awt.Color(255, 255, 255));
kembali.setText("Kembali");
kembali.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        kembaliActionPerformed(evt);
    }
});

daftar.setBackground(new java.awt.Color(51, 0, 204));
daftar.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
daftar.setForeground(new java.awt.Color(255, 255, 255));
daftar.setText("Daftar");
daftar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        daftarActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLayeredPane1)
        .addGroup(layout.createSequentialGroup()
            .addGap(140, 140, 140)
            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 387,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
            .addGap(140, 140, 140)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 168,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
            .addGap(140, 140, 140)

```



```

        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 387,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
        .addGap(140, 140, 140)
        .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 387,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
        .addGap(140, 140, 140)
        .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, 387,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
        .addGap(140, 140, 140)
        .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 390,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
        .addGap(370, 370, 370)
        .addComponent(kembali, javax.swing.GroupLayout.PREFERRED_SIZE, 90,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(60, 60, 60)
        .addComponent(daftar, javax.swing.GroupLayout.PREFERRED_SIZE, 90,
javax.swing.GroupLayout.PREFERRED_SIZE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(6, 6, 6)
        .addComponent(jLayeredPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(65, 65, 65)
        .addComponent(jLabel2)
        .addGap(5, 5, 5)
        .addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(28, 28, 28)
        .addComponent(jLabel5)
        .addGap(0, 0, 0)
        .addComponent(jLabel7)
        .addGap(0, 0, 0)
        .addComponent(jLabel8)
        .addGap(0, 0, 0)
        .addComponent(jLabel9)
        .addGap(110, 110, 110)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
G)
        .addComponent(kembali, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(daftar, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(46, Short.MAX_VALUE))
    );

    pack();
    setLocationRelativeTo(null);
} // </editor-fold> //GEN-END: initComponents

private void kembaliActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_kembaliActionPerformed
    Home hm = new Home();
    hm.setVisible(true);
    this.dispose();
} //GEN-LAST:event_kembaliActionPerformed

private void daftarActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_daftarActionPerformed
    Pendaftaran Pdf = new Pendaftaran();
    Pdf.setVisible(true);
    this.dispose();
} //GEN-LAST:event_daftarActionPerformed

public static void main(String args[]) {
    Jadwal jdl = new Jadwal();
    jdl.getContentPane().setBackground(Color.blue);
    jdl.setVisible(true);

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Jadwal().setVisible(true);
        }
    });
}

// Variables declaration - do not modify //GEN-BEGIN:variables
private javax.swing.JButton daftar;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;

```

```
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JLayeredPane jLayeredPane1;
private javax.swing.JButton kembali;
// End of variables declaration//GEN-END:variables
}
```

unsur dari pemrograman berorientasi objek (OOP) dalam Java:

Kelas (`class`)

- **Kelas `Jadwal`**: Merupakan kelas yang menggambarkan jendela untuk menampilkan jadwal pendaftaran peserta didik baru.

Konstruktor

- **Metode `Jadwal()`**: Ini adalah konstruktor kelas `Jadwal`, yang dipanggil saat objek kelas `Jadwal` dibuat.

Atribut

- **Variabel GUI (`jLabel1`, `jLabel2`, dst.)**: Mereka adalah atribut-atribut yang mewakili label, tombol, dan gambar pada antarmuka pengguna.

Metode

- **`initComponents()`**: Metode ini menginisialisasi dan mengatur komponen-komponen GUI seperti label, tombol, dan gambar.
- **`kembaliActionPerformed()` dan `daftarActionPerformed()`**: Metode-metode ini dipanggil saat tombol "Kembali" atau "Daftar" ditekan untuk melakukan aksi tertentu seperti membuka jendela baru atau menutup jendela saat ini.

Penggunaan GUI

- **Penyesuaian Komponen**: Penempatan dan penyesuaian komponen GUI dilakukan di dalam metode `initComponents()`.

Pengelolaan Jendela

- **Pembuatan Jendela Baru**: Ketika tombol "Kembali" atau "Daftar" ditekan, jendela-jendela baru seperti `Home` dan `Pendaftaran` dibuat dan ditampilkan.

Pewarnaan GUI

- **Pengaturan Warna Latar Belakang**: Di dalam metode `main()`, warna latar belakang jendela diatur menggunakan `jdl.getContentPane().setBackground(Color.blue)`.

4.login screen

```
package frame;
```

```

import javax.swing.JOptionPane;

public class loginScreen extends javax.swing.JFrame {

    public loginScreen() {
        initComponents();
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code"> //GEN-BEGIN: initComponents
    private void initComponents() {

        Loginpane = new javax.swing.JDesktopPane();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        UsernameTxt = new javax.swing.JTextField();
        PasswordTxt = new javax.swing.JPasswordField();
        Login = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setBackground(java.awt.Color.darkGray);

        Loginpane.setBackground(new java.awt.Color(102, 102, 102));

        jLabel4.setFont(new java.awt.Font("Segoe UI", 1, 16)); // NOI18N
        jLabel4.setForeground(new java.awt.Color(255, 255, 255));
        jLabel4.setText("SELAMAT DATANG DI APLIKASI");
        jLabel4.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));

        jLabel5.setFont(new java.awt.Font("Segoe UI", 1, 16)); // NOI18N
        jLabel5.setForeground(new java.awt.Color(255, 255, 255));
        jLabel5.setText("PENDAFATRAH PESERTA DIDIK BARU");

        jLabel6.setFont(new java.awt.Font("Segoe UI", 1, 16)); // NOI18N
        jLabel6.setForeground(new java.awt.Color(255, 255, 255));
        jLabel6.setText("SEKOLAH DASAR NEGERI 03 SOLOK");

        jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N

```

```

jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Silahkan melakukan login terlebih dahulu sebelum melakukan
pendaftaran");

jLabel2.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("Username");

jLabel3.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
jLabel3.setForeground(new java.awt.Color(255, 255, 255));
jLabel3.setText("Password");

UsernameTxt.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
UsernameTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        UsernameTxtActionPerformed(evt);
    }
});

PasswordTxt.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N

Login.setBackground(new java.awt.Color(102, 102, 255));
Login.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
Login.setForeground(new java.awt.Color(255, 255, 255));
Login.setText("LOGIN");
Login.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        LoginActionPerformed(evt);
    }
});

Loginpane.setLayer(jLabel4, javax.swing.JLayeredPane.DEFAULT_LAYER);
Loginpane.setLayer(jLabel5, javax.swing.JLayeredPane.DEFAULT_LAYER);
Loginpane.setLayer(jLabel6, javax.swing.JLayeredPane.DEFAULT_LAYER);
Loginpane.setLayer(jLabel1, javax.swing.JLayeredPane.DEFAULT_LAYER);
Loginpane.setLayer(jLabel2, javax.swing.JLayeredPane.DEFAULT_LAYER);
Loginpane.setLayer(jLabel3, javax.swing.JLayeredPane.DEFAULT_LAYER);
Loginpane.setLayer(UsernameTxt, javax.swing.JLayeredPane.DEFAULT_LAYER);
Loginpane.setLayer>PasswordTxt, javax.swing.JLayeredPane.DEFAULT_LAYER);
Loginpane.setLayer(Login, javax.swing.JLayeredPane.DEFAULT_LAYER);

javax.swing.GroupLayout LoginpaneLayout = new javax.swing.GroupLayout(Loginpane);
Loginpane.setLayout(LoginpaneLayout);
LoginpaneLayout.setHorizontalGroup(
    LoginpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(LoginpaneLayout.createSequentialGroup()
            .addGroup(LoginpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(jLabel4)
                .add(jLabel5)
                .add(jLabel6)
                .add(jLabel1)
                .add(jLabel2)
                .add(jLabel3)
                .add(UsernameTxt)
                .add>PasswordTxt, javax.swing.GroupLayout.DEFAULT_SIZE, 300, true)
            .add(Login)
        )
    );

```

```

        .addGroup(LoginpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(LoginpaneLayout.createSequentialGroup()
                .addGap(130, 130, 130)
                .addGroup(LoginpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(LoginpaneLayout.createSequentialGroup()
                        .addGap(20, 20, 20)
                        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 250, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 290, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 310, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGroup(LoginpaneLayout.createSequentialGroup()
                    .addGap(60, 60, 60)
                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 470, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(LoginpaneLayout.createSequentialGroup()
                    .addGap(90, 90, 90)
                    .addGroup(LoginpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                        .addGroup(LoginpaneLayout.createSequentialGroup()
                            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 80, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(UsernameTxt, javax.swing.GroupLayout.PREFERRED_SIZE, 140, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGroup(LoginpaneLayout.createSequentialGroup()
                            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 180, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGap(46, 46, 46)
                            .addComponent>PasswordTxt, javax.swing.GroupLayout.PREFERRED_SIZE, 140, javax.swing.GroupLayout.PREFERRED_SIZE))))
                    .addContainerGap(71, Short.MAX_VALUE))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, LoginpaneLayout.createSequentialGroup()
                .addGap(0, 0, Short.MAX_VALUE)
                .addComponent(Login, javax.swing.GroupLayout.PREFERRED_SIZE, 96, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(59, 59, 59))
        );
LoginpaneLayout.setVerticalGroup(

```

```

LoginpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(LoginpaneLayout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addGroup(LoginpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.LEADING)
            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(LoginpaneLayout.createSequentialGroup()
                .addGap(20, 20, 20)
                .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(LoginpaneLayout.createSequentialGroup()
                .addGap(40, 40, 40)
                .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(39, 39, 39)
            .addComponent(jLabel1)
            .addGap(43, 43, 43)
            .addGroup(LoginpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.BASELINE)
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 28,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(UsernameTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(36, 36, 36)
                .addGroup(LoginpaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.BASELINE)
                    .addComponent>PasswordTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel3))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 70,
Short.MAX_VALUE)
                    .addComponent(Login)
                    .addGap(33, 33, 33))
        );

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(Loginpane)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    
```



```

        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(Loginpane, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    );

    pack();
    setLocationRelativeTo(null);
} // </editor-fold> // GEN-END: initComponents

private void LoginActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_LoginActionPerformed
    String Username = "admin";
    String Password = "123";
    if(UsernameTxt.getText().equals(Username) &&
PasswordTxt.getText().equals(Password)){
        JOptionPane.showMessageDialog(null, "Login berhasil");
        Home Hm = new Home();
        Hm.setVisible(true);
        this.dispose();
    } else {
        JOptionPane.showMessageDialog(null, "Username / Password salah!!");
    }
} // GEN-LAST:event_LoginActionPerformed

private void UsernameTxtActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_UsernameTxtActionPerformed
    // TODO add your handling code here:
} // GEN-LAST:event_UsernameTxtActionPerformed

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    }
}

```



```

    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(loginScreen.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(loginScreen.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(loginScreen.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(loginScreen.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new loginScreen().setVisible(true);
    }
});
}

// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JButton Login;
private javax.swing.JDesktopPane Loginpane;
private javax.swing.JPasswordField PasswordTxt;
private javax.swing.JTextField UsernameTxt;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
// End of variables declaration//GEN-END:variables
}

```

unsur dari pemrograman berorientasi objek (OOP) dalam Java:

Kelas ('class')

- **Kelas 'loginScreen'**: Merupakan kelas yang menggambarkan jendela untuk layar login.

Konstruktor

- **Metode 'loginScreen()'**: Ini adalah konstruktor kelas 'loginScreen', yang dipanggil saat objek kelas 'loginScreen' dibuat.

Atribut

- ****Variabel GUI** (`jLabel1`, `jLabel2`, dst.)******: Atribut-atribut ini mewakili komponen-komponen antarmuka pengguna seperti label, teks field, dan tombol.

Metode

- ****`initComponents()`********: Metode ini menginisialisasi dan mengatur komponen-komponen GUI seperti label, teks field, dan tombol.
- ****`LoginActionPerformed()`********: Dipanggil ketika tombol "Login" ditekan untuk memeriksa apakah username dan password yang dimasukkan sesuai dengan yang diharapkan.

Penggunaan GUI

- ****Penyesuaian Komponen****: Penempatan dan penyesuaian komponen GUI dilakukan di dalam metode `initComponents()`.

Validasi Login

- ****Pengecekan Login****: Melakukan validasi login dengan membandingkan username dan password yang dimasukkan dengan nilai yang telah ditentukan.

5.pendaftaran

```
package frame;

import javax.swing.JOptionPane;

public class Pendaftaran extends javax.swing.JFrame {

    public Pendaftaran() {
        initComponents();
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code"> //GEN-BEGIN: initComponents
    private void initComponents() {

        text3 = new javax.swing.JTextField();
        text4 = new javax.swing.JTextField();
        text5 = new javax.swing.JTextField();
        text6 = new javax.swing.JTextField();
        text7 = new javax.swing.JTextField();
        text8 = new javax.swing.JTextField();
        jLabel9 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
    }
}
```

```

jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel15 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
text9 = new javax.swing.JTextField();
jLabel6 = new javax.swing.JLabel();
jLabel16 = new javax.swing.JLabel();
jLabel7 = new javax.swing.JLabel();
text2 = new javax.swing.JTextField();
text1 = new javax.swing.JTextField();
jLabel8 = new javax.swing.JLabel();
text10 = new javax.swing.JTextField();
jLabel11 = new javax.swing.JLabel();
jLabel12 = new javax.swing.JLabel();
jLabel13 = new javax.swing.JLabel();
text12 = new javax.swing.JTextField();
text11 = new javax.swing.JTextField();
jLabel14 = new javax.swing.JLabel();
ComboBox1 = new javax.swing.JComboBox<>();
simpan = new javax.swing.JButton();
kembali = new javax.swing.JButton();
reset = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(51, 51, 51));

text4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        text4ActionPerformed(evt);
    }
});

jLabel9.setText("Data orang tua");

jLabel1.setText("Alamat rumah");

jLabel2.setText("Nama Ayah");

jLabel3.setText("Nama Ibu");

jLabel4.setText("Pekerjaan");

jLabel15.setText("No hp wali");

jLabel5.setText("Gaji");

```

```
jLabel6.setText("Pekerjaan");

jLabel16.setText("No kartu keluarga");

jLabel7.setText("Gaji");

text2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        text2ActionPerformed(evt);
    }
});

text1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        text1ActionPerformed(evt);
    }
});

jLabel8.setText("Data Siswa");

text10.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        text10ActionPerformed(evt);
    }
});

jLabel11.setText("Umur");

jLabel12.setText("Jenis kelamin");

jLabel13.setText("Tanggal lahir");

jLabel14.setText("Nama");

ComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "--",
"Laki-laki", "Perempuan", " " }));

simpan.setText("Simpan");
simpan.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        simpanActionPerformed(evt);
    }
});

kembali.setText("Kembali");
```

```

kembali.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        kembaliActionPerformed(evt);
    }
});

reset.setText("Reset");
reset.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        resetActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(21, 21, 21)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE,
104, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addPreferredGap(LayoutStyle.ComponentPlacement.RELATED,
D, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE,
104, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(0, 0, Short.MAX_VALUE)
                    .addComponent(text1, javax.swing.GroupLayout.PREFERRED_SIZE, 153,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(83, 83, 83)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
TRAILING)
                        .addComponent(jLabel12, javax.swing.GroupLayout.PREFERRED_SIZE,
104, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel13, javax.swing.GroupLayout.PREFERRED_SIZE,
104, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED_SIZE,
104, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel14, javax.swing.GroupLayout.PREFERRED_SIZE,
104, javax.swing.GroupLayout.PREFERRED_SIZE))))))

```

```
.addGap(56, 56, 56)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(text11, javax.swing.GroupLayout.DEFAULT_SIZE, 153, Short.MAX_VALUE)
    .addComponent(text12, javax.swing.GroupLayout.DEFAULT_SIZE, 153, Short.MAX_VALUE)
    .addComponent(text10, javax.swing.GroupLayout.DEFAULT_SIZE, 153, Short.MAX_VALUE)
    .addComponent(ComboBox1, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
.addGroup(layout.createSequentialGroup())
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(jLabel6, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 91, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 104, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 104, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 104, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel15, javax.swing.GroupLayout.PREFERRED_SIZE, 104, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 104, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel16, javax.swing.GroupLayout.PREFERRED_SIZE, 104, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 92, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(102, 102, 102)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(text3, javax.swing.GroupLayout.PREFERRED_SIZE, 153, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(text4, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 153, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(text5, javax.swing.GroupLayout.PREFERRED_SIZE,
153, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(text6, javax.swing.GroupLayout.PREFERRED_SIZE,
153, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(text7, javax.swing.GroupLayout.PREFERRED_SIZE,
153, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addComponent(text8, javax.swing.GroupLayout.PREFERRED_SIZE, 153,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(text9, javax.swing.GroupLayout.PREFERRED_SIZE, 153,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(text2, javax.swing.GroupLayout.PREFERRED_SIZE, 153,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
169, Short.MAX_VALUE)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(kembali)
        .addGap(39, 39, 39)
        .addComponent(simpan)
        .addGap(42, 42, 42))
        .addComponent(reset, javax.swing.GroupLayout.Alignment.TRAILING))))
        .addGap(110, 110, 110))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(75, 75, 75)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADIN
G)
        .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)
        .addComponent(jLabel9)
        .addComponent(jLabel8))
        .addGap(23, 23, 23)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)
        .addComponent(jLabel11)
        .addComponent(text1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(21, 21, 21)

```



```

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel16)
            .addComponent(text2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(text3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel2))
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addComponent(text4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(text5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 1, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addGap(23, 23, 23)
                .addComponent(jLabel4)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel5))))
        .addGroup(layout.createSequentialGroup()
            .addGap(47, 47, 47)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel14, javax.swing.GroupLayout.Alignment.TRAILING)
                .addComponent(text10, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(text11, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel11))
            .addGap(23, 23, 23)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(ComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel12))

```



```

        .addGap(25, 25, 25)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(text12, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel13))
        .addGap(0, 0, Short.MAX_VALUE)))
        .addGap(18, 18, 18)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(layout.createSequentialGroup()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(text6, javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(reset))
                    .addComponent(jLabel3, javax.swing.GroupLayout.Alignment.TRAILING)))
                .addGap(25, 25, 25)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(text7, javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel6))
                .addGap(22, 22, 22)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel7)
                        .addGap(28, 28, 28)
                        .addComponent(jLabel15))
                    .addGroup(layout.createSequentialGroup()
                        .addComponent(text8, javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(text9, javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(27, 27, 27))
            .addGroup(layout.createSequentialGroup()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(simpan)
                    .addComponent(kembali))
                .addGap(47, 47, 47))))
    );

```

```

        pack();
        setLocationRelativeTo(null);
    } // </editor-fold> // GEN-END: initComponents

    private void text4ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-FIRST:event_text4ActionPerformed
        // TODO add your handling code here:
    } // GEN-LAST:event_text4ActionPerformed

    private void text2ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-FIRST:event_text2ActionPerformed
        // TODO add your handling code here:
    } // GEN-LAST:event_text2ActionPerformed

    private void text1ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-FIRST:event_text1ActionPerformed
        // TODO add your handling code here:
    } // GEN-LAST:event_text1ActionPerformed

    private void text10ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-FIRST:event_text10ActionPerformed
        // TODO add your handling code here:
    } // GEN-LAST:event_text10ActionPerformed

    private void simpanActionPerformed(java.awt.event.ActionEvent evt) { // GEN-FIRST:event_simpanActionPerformed
        String textfield = "";
        if(text1.getText().equals(textfield) && text2.getText().equals(textfield) &&
text3.getText().equals(textfield)
            && text4.getText().equals(textfield) && text5.getText().equals(textfield) &&
text6.getText().equals(textfield)
            && text7.getText().equals(textfield) && text8.getText().equals(textfield) &&
text9.getText().equals(textfield)
            && text10.getText().equals(textfield) && text11.getText().equals(textfield) &&
text2.getText().equals(textfield)){
            JOptionPane.showMessageDialog(null, "Data kurang lengkap, isi kembali ");
        } else {
            JOptionPane.showMessageDialog(null, "Pendaftaran berhasil");
            Home hm = new Home();
            hm.setVisible(true);
            this.dispose();
        }
    } // GEN-LAST:event_simpanActionPerformed

```

```

    private void kembaliActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_kembaliActionPerformed

        Home hm = new Home();
        hm.setVisible(true);
        this.dispose();
    } //GEN-LAST:event_kembaliActionPerformed
//reset tombol
    private void resetActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_resetActionPerformed
        text1.setText("");text2.setText("");text3.setText("");text4.setText("");text5.setText("");text6
        .setText("");
        text7.setText("");text8.setText("");text9.setText("");text10.setText("");text11.setText("");tex
        t12.setText("");
        ComboBox1.setSelectedIndex(0);
    } //GEN-LAST:event_resetActionPerformed

    public static void main(String args[]) {

        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Pendaftaran().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JComboBox<String> ComboBox1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel12;
    private javax.swing.JLabel jLabel13;
    private javax.swing.JLabel jLabel14;
    private javax.swing.JLabel jLabel15;
    private javax.swing.JLabel jLabel16;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JButton kembali;
    private javax.swing.JButton reset;

```

```

private javax.swing.JButton simpan;
private javax.swing.JTextField text1;
private javax.swing.JTextField text10;
private javax.swing.JTextField text11;
private javax.swing.JTextField text12;
private javax.swing.JTextField text2;
private javax.swing.JTextField text3;
private javax.swing.JTextField text4;
private javax.swing.JTextField text5;
private javax.swing.JTextField text6;
private javax.swing.JTextField text7;
private javax.swing.JTextField text8;
private javax.swing.JTextField text9;
// End of variables declaration//GEN-END:variables
}

```

Dalam kode program yang diberikan, terdapat beberapa unsur atau konsep Pemrograman Berorientasi Objek (PBO) yang terlibat, antara lain:

1. Class

- Terdapat kelas `Pendaftaran` yang merupakan rancangan atau blueprint untuk membuat objek.

2. Objek

- Pembuatan objek dilakukan dengan menggunakan kelas `Pendaftaran` pada fungsi `main`.

- Contoh:

```

```java
Pendaftaran pend = new Pendaftaran();
pend.setVisible(true);
```

```

3. Enkapsulasi

- Penggunaan variabel dan metode dalam kelas `Pendaftaran` yang diakses melalui objek yang dibuat.

- Contoh:

```

```java
private javax.swing.JTextField text1; // Variabel JTextField yang dienkapsulasi
private void initComponents() {...} // Metode untuk inisialisasi komponen GUI
```

```

4. Pewarisan (Inheritance)

- Kelas `Pendaftaran` secara tidak langsung mewarisi properti dan metode dari kelas `javax.swing.JFrame` yang di-extend.

5. Penggunaan Objek GUI (Graphical User Interface)

- Dalam kelas `Pendaftaran`, terdapat komponen-komponen GUI seperti `JTextField`, `JLabel`, `JButton`, `JComboBox`, yang digunakan untuk membangun antarmuka pengguna.

6. Polimorfisme

- Polimorfisme bisa ditemukan dalam penanganan event, di mana beberapa metode seperti `simpanActionPerformed`, `kembaliActionPerformed`, dan `resetActionPerformed` akan dijalankan berdasarkan event yang terjadi pada tombol-tombol yang ada di GUI.

7. Penggunaan Libraries Eksternal

- Kode menggunakan library dari Java Swing (javax.swing) untuk membangun antarmuka pengguna.

8. Abstraksi

- Penggunaan berbagai komponen GUI dan fungsionalitasnya merupakan bentuk abstraksi dari konsep pemrograman yang lebih kompleks di baliknya.

9. Event Handling

- Terdapat penanganan event yang digunakan untuk merespons interaksi pengguna dengan antarmuka, seperti saat tombol ditekan atau input dimasukkan.

10. Penanganan Error (Exception Handling)

- Beberapa bagian kode menangani kondisi-kondisi tertentu, seperti validasi input data pada saat pengguna mencoba menyimpan data, dengan menggunakan `JOptionPane` untuk menampilkan pesan kesalahan atau keberhasilan.

6.persaratan

```
package frame;

public class Persayaratan extends javax.swing.JFrame {

    public Persayaratan() {
        initComponents();
    }
}
```

```

@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code"> //GEN-BEGIN: initComponents
private void initComponents() {

    jLayeredPane1 = new javax.swing.JLayeredPane();
    jLabel6 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel11 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
    jLabel9 = new javax.swing.JLabel();
    jLabel10 = new javax.swing.JLabel();
    jLabel11 = new javax.swing.JLabel();
    jButton1 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/frame/logo-sd1.png"))); // NOI18N

    jLabel3.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
    jLabel3.setText("PMB SD NEGERI 03 SOLOK");
    jLabel3.setVerticalAlignment(javax.swing.SwingConstants.BOTTOM);

    jLabel4.setFont(new java.awt.Font("Segoe UI", 1, 20)); // NOI18N
    jLabel4.setText("Persyaratan PMB ONLINE");
    jLabel4.setVerticalAlignment(javax.swing.SwingConstants.TOP);
    jLabel4.setAlignmentY(0.0F);

    jLayeredPane1.setLayer(jLabel6, javax.swing.JLayeredPane.DEFAULT_LAYER);
    jLayeredPane1.setLayer(jLabel3, javax.swing.JLayeredPane.DEFAULT_LAYER);
    jLayeredPane1.setLayer(jLabel4, javax.swing.JLayeredPane.DEFAULT_LAYER);

    javax.swing.GroupLayout jLayeredPane1Layout = new
javax.swing.GroupLayout(jLayeredPane1);
    jLayeredPane1.setLayout(jLayeredPane1Layout);
    jLayeredPane1Layout.setHorizontalGroup(
        jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jLayeredPane1Layout.createSequentialGroup()
            .addContainerGap()

```

```

        .addGroup(jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel3)
            .addComponent(jLabel4))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 285,
Short.MAX_VALUE)
        .addComponent(jLabel6)
        .addGap(68, 68, 68))
    );
    jLayeredPane1Layout.setVerticalGroup(
        jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jLayeredPane1Layout.createSequentialGroup()
            .addGap(19, 19, 19)
            .addGroup(jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jLayeredPane1Layout.createSequentialGroup()
                    .addComponent(jLabel3)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 81,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap(19, Short.MAX_VALUE))
            );

    jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 16)); // NOI18N
    jLabel1.setText("Persyaratan Pendaftaran :");

    jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 15)); // NOI18N
    jLabel2.setText("- Calon peserta didik baru harus memenuhi");

    jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 15)); // NOI18N
    jLabel5.setText("persyaratan usia 7 (tujuh) tahun atau paling");

    jLabel7.setFont(new java.awt.Font("Segoe UI", 0, 15)); // NOI18N
    jLabel7.setText("rendah (enam) tahun pada saat pendaftaran.");

    jLabel8.setFont(new java.awt.Font("Segoe UI", 0, 15)); // NOI18N
    jLabel8.setText("- Melengkapi biaya admisnistrasi pendaftaran");

    jLabel9.setFont(new java.awt.Font("Segoe UI", 0, 15)); // NOI18N
    jLabel9.setText("peserta didik baru sebesar Rp 250.000,- .");

    jLabel10.setFont(new java.awt.Font("Segoe UI", 0, 15)); // NOI18N
    jLabel10.setText("- Memiliki akte kelahiran/surat keterangan");

```



```

jLabel11.setFont(new java.awt.Font("Segoe UI", 0, 15)); // NOI18N
jLabel11.setText("laporan kelahiran dari pihak wewenang.");

jButton1.setBackground(new java.awt.Color(51, 0, 204));
jButton1.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
jButton1.setForeground(new java.awt.Color(255, 255, 255));
jButton1.setText("Kembali");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(156, 156, 156)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 213,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()
            .addGap(6, 6, 6)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
                .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, 307,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 307,
javax.swing.GroupLayout.PREFERRED_SIZE)
            )
        )
    );

```



```

        .addComponent(jLabel9, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel11, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 113,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(72, 72, 72))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLayeredPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(43, 43, 43)
            .addComponent(jLabel1)
            .addGap(18, 18, 18)
            .addComponent(jLabel2)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel5)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel7)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel8)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel9)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel10)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabel11)
            .addGap(65, 65, 65)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(54, Short.MAX_VALUE))
        );

    pack();
    setLocationRelativeTo(null);
} // </editor-fold> // GEN-END: initComponents

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton1ActionPerformed
    Home hm = new Home();
    hm.setVisible(true);
    this.dispose();
} //GEN-LAST:event_jButton1ActionPerformed

public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Persayaratan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Persayaratan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Persayaratan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Persayaratan.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Persayaratan().setVisible(true);
        }
    });
}

// Variables declaration - do not modify//GEN-BEGIN:variables

```

```

private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JLayeredPane jLayeredPane1;
// End of variables declaration//GEN-END:variables
}

```

Dalam kode program `Persyaratan`, terdapat sejumlah unsur Pemrograman Berorientasi Objek (PBO) yang terlibat:

1. Class

- Kelas `Persyaratan` adalah rancangan untuk membuat objek yang menampilkan persyaratan pendaftaran.

2. Objek

- Pembuatan objek dari kelas `Persyaratan` dilakukan pada fungsi `main`.

3. Enkapsulasi

- Penggunaan variabel private seperti `jLabel` yang diatur dan diakses melalui metode dalam kelas.

4. Penggunaan Libraries Eksternal

- Penggunaan Java Swing (javax.swing) untuk membangun antarmuka pengguna.

5. Pembuatan Antarmuka Pengguna (GUI)

- Menggunakan `JLabel` untuk menampilkan teks.
- Menggunakan `JButton` untuk mengaktifkan aksi saat diklik.

6. Polimorfisme

- Terdapat metode `jButton1ActionPerformed` yang dijalankan saat tombol `Kembali` ditekan. Ini adalah contoh polimorfisme di mana metode ini akan dijalankan sebagai respons terhadap event.

7. Pengaturan Tampilan

- Penggunaan `JLayeredPane` untuk mengatur tata letak elemen-elemen GUI.

8. Pembentukan dan Penutupan Aplikasi

- Membentuk dan menutup aplikasi pada fungsi `main` dengan `invokeLater`.

9. Penanganan Event

- Tombol `Kembali` memiliki aksi yang ditangani oleh metode `JButtonActionPerformed`.

10. Layouting Komponen

- Penempatan elemen-elemen GUI diatur menggunakan berbagai jenis layout manager yang disediakan oleh Java Swing.

7.prosedur

```
package frame;

public class Prosedur extends javax.swing.JFrame {

    /**
     * Creates new form Prosedur
     */
    public Prosedur() {
        initComponents();
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code"> //GEN-BEGIN: initComponents
    private void initComponents() {

        jLayeredPane1 = new javax.swing.JLayeredPane();
        jLabel6 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        jLabel11 = new javax.swing.JLabel();
        jLabel12 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
    }
}
```

```

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(102, 102, 102));

jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/frame/logo-
sd1.png"))); // NOI18N

jLabel3.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
jLabel3.setText("PMB SD NEGERI 03 SOLOK");
jLabel3.setVerticalAlignment(javax.swing.SwingConstants.BOTTOM);

jLabel4.setFont(new java.awt.Font("Segoe UI", 1, 20)); // NOI18N
jLabel4.setText("prosedur PMB ONLINE");
jLabel4.setVerticalAlignment(javax.swing.SwingConstants.TOP);
jLabel4.setAlignmentY(0.0F);

jLayeredPane1.setLayer(jLabel6, javax.swing.JLayeredPane.DEFAULT_LAYER);
jLayeredPane1.setLayer(jLabel3, javax.swing.JLayeredPane.DEFAULT_LAYER);
jLayeredPane1.setLayer(jLabel4, javax.swing.JLayeredPane.DEFAULT_LAYER);

javax.swing.GroupLayout jLayeredPane1Layout = new
javax.swing.GroupLayout(jLayeredPane1);
jLayeredPane1.setLayout(jLayeredPane1Layout);
jLayeredPane1Layout.setHorizontalGroup(
    jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jLayeredPane1Layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)
                .addComponent(jLabel3)
                .addComponent(jLabel4))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 310,
Short.MAX_VALUE)
            .addComponent(jLabel6)
            .addGap(68, 68, 68))
        );
jLayeredPane1Layout.setVerticalGroup(
    jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jLayeredPane1Layout.createSequentialGroup()
            .addGap(19, 19, 19)
            .addGroup(jLayeredPane1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)
                .addGroup(jLayeredPane1Layout.createSequentialGroup()
                    .addComponent(jLabel3)

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 81,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(19, Short.MAX_VALUE))
    );

    jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 16)); // NOI18N
    jLabel1.setText("Prosedur Pendaftaran");

    jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel2.setText("- Proses Pendaftaran di SD Negeri 03 Solok");
    jLabel2.setVerticalAlignment(javax.swing.SwingConstants.BOTTOM);

    jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel5.setText("dilakukan secara online, melalui aplikasi ini.");
    jLabel5.setVerticalAlignment(javax.swing.SwingConstants.TOP);

    jLabel7.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel7.setText("- Siapkn data calon peserta didik baru yang akan");

    jLabel8.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel8.setText("diisikan diform pendaftaran oleh panitia ");
    jLabel8.setVerticalAlignment(javax.swing.SwingConstants.TOP);

    jLabel9.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel9.setText("/ orang tua calon peserta didik baru.");
    jLabel9.setVerticalAlignment(javax.swing.SwingConstants.TOP);

    jLabel10.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel10.setText("- Seluruh proses pembayaran di SD Negeri 03");

    jLabel11.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel11.setText("Solok dilakukan melalui transfer atau");
    jLabel11.setVerticalAlignment(javax.swing.SwingConstants.TOP);

    jLabel12.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel12.setText("menggunakan dompet digital.");
    jLabel12.setVerticalAlignment(javax.swing.SwingConstants.TOP);

    jButton1.setBackground(new java.awt.Color(51, 0, 204));
    jButton1.setFont(new java.awt.Font("Segoe UI", 1, 14)); // NOI18N
    jButton1.setForeground(new java.awt.Color(255, 255, 255));
    jButton1.setText("Kembali");
    jButton1.addActionListener(new java.awt.event.ActionListener() {

```

[illegible]


```

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel12, javax.swing.GroupLayout.PREFERRED_SIZE, 265,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED_SIZE, 288,
javax.swing.GroupLayout.PREFERRED_SIZE))))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()
            .addGap(187, 187, 187)
            .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 284,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 97,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(49, 49, 49))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLayeredPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(62, 62, 62)
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 31,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jLabel2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel5)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel7)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel8)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel9)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel10)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel11)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel12)

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 38,
Short.MAX_VALUE)
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(42, 42, 42))
    );

    pack();
    setLocationRelativeTo(null);
} // </editor-fold> // GEN-END: initComponents

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_jButton1ActionPerformed
    Home hm = new Home();
    hm.setVisible(true);
    this.dispose();
} // GEN-LAST:event_jButton1ActionPerformed

public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Prosedur.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Prosedur.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Prosedur.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Prosedur.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    }
}

```

```

//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Prosedur().setVisible(true);
    }
});
}

// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JLayeredPane jLayeredPane1;
// End of variables declaration//GEN-END:variables
}

```

Kode program `Prosedur` juga melibatkan beberapa unsur Pemrograman Berorientasi Objek (PBO):

1. Class

- Kelas `Prosedur` adalah rancangan untuk membuat objek yang menampilkan prosedur pendaftaran.

2. Objek

- Objek dari kelas `Prosedur` dibuat pada fungsi `main`.

3. Enkapsulasi

- Penggunaan variabel private seperti `jLabel` yang diatur dan diakses melalui metode dalam kelas.

4. Penggunaan Libraries Eksternal

- Menggunakan Java Swing (javax.swing) untuk membangun antarmuka pengguna.

5. Pembuatan Antarmuka Pengguna (GUI)

- Menggunakan `JLabel` untuk menampilkan teks.
- Menggunakan `JButton` untuk mengaktifkan aksi saat diklik.

6. Polimorfisme

- Metode `JButtonActionPerformed` dijalankan saat tombol `Kembali` ditekan. Ini menunjukkan polimorfisme di mana metode ini akan dijalankan sebagai respons terhadap event.

7. Pengaturan Tampilan

- Penggunaan `JLayeredPane` untuk mengatur tata letak elemen-elemen GUI.

8. Pembentukan dan Penutupan Aplikasi

- Pembentukan dan penutupan aplikasi dilakukan pada fungsi `main` dengan `invokeLater`.

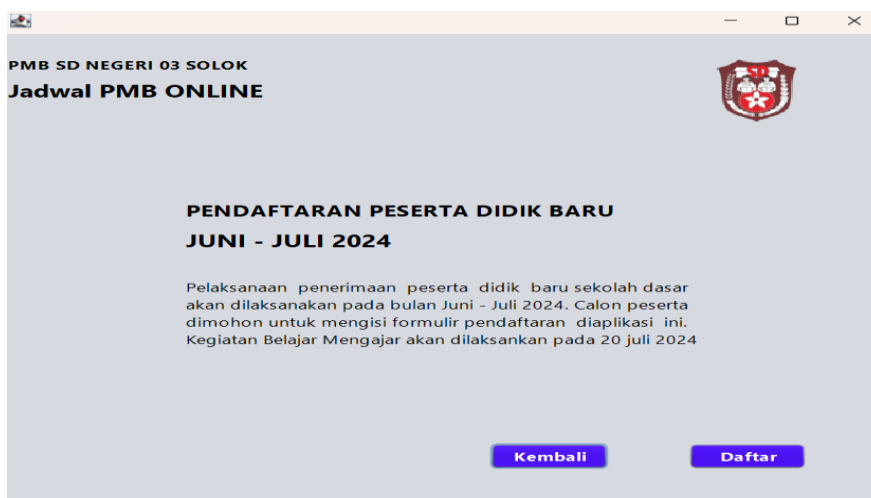
9. Penanganan Event

- Tombol `Kembali` memiliki aksi yang ditangani oleh metode `JButtonActionPerformed`.

10. Layouting Komponen

- Penempatan elemen-elemen GUI diatur menggunakan berbagai jenis layout manager yang disediakan oleh Java Swing.

screenshot



Data orang tua

Alamat rumah

No kartu keluarga

Nama Ayah

Pekerjaan

Gaji

Nama Ibu

Pekerjaan

Gaji

No hp wali

Data Siswa

Nama

Umur

Jenis kelamin

Tanggal lahir

Reset

Kembali

Simpan

SELAMAT DATANG DI APLIKASI
PENDAFATRAAN PESERTA DIDIK BARU
SEKOLAH DASAR NEGERI 03 SOLOK

Silahkan melakukan login terlebih dahulu sebelum melakukan pendaftaran


Username

Password

LOGIN

PMB SD NEGERI 03 SOLOK

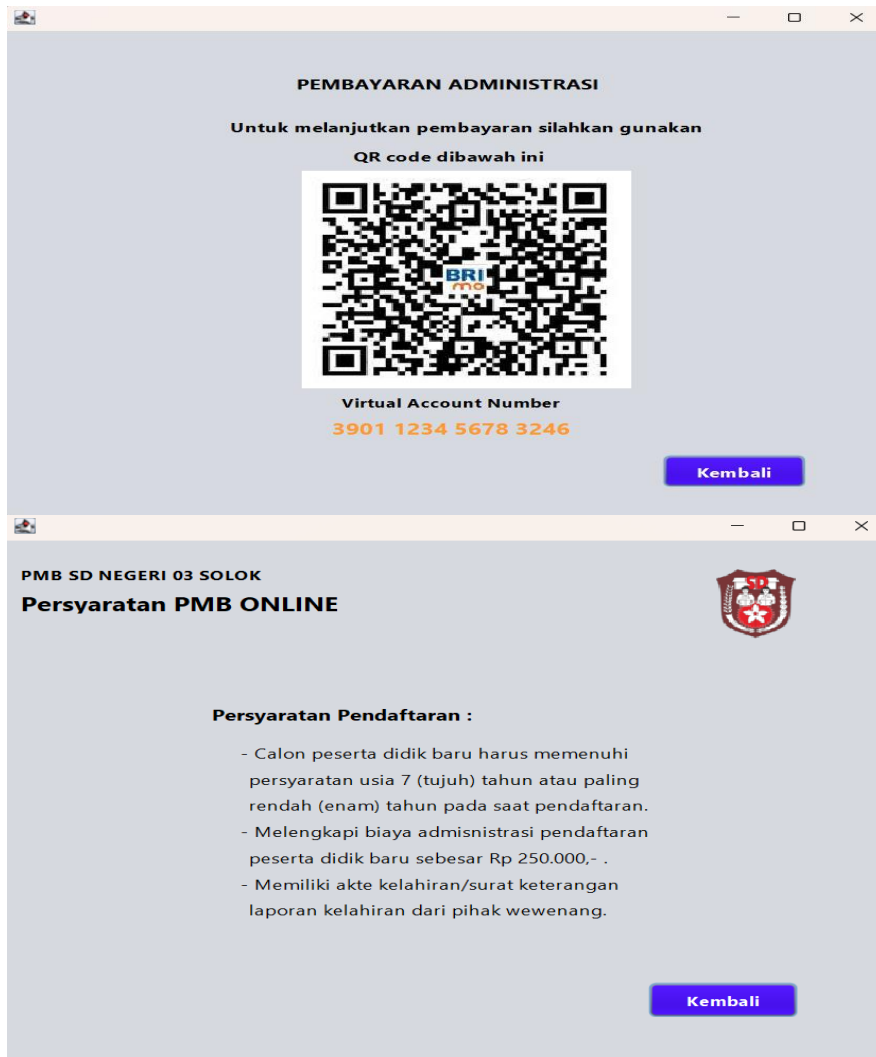
prosedur PMB ONLINE



Prosedur Pendaftaran

- Proses Pendaftaran di SD Negeri 03 Solok dilakukan secara online, melalui aplikasi ini.
- Siapkn data calon peserta didik baru yang akan diisikan di form pendaftaran oleh panitia / orang tua calon peserta didik ba...
- Seluruh proses pembayaran di SD Negeri 03 Solok dilakukan melalui transfer atau menggunakan dompet digital.

Kembali



referensi

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