

“AÑO DE LA UNIDAD, LA PAZ Y EL DESARROLLO”

UNIVERSIDAD PERUANA LOS ANDES

FACULTAD DE INGENIERÍA

ESCUELA PROFESIONAL DE SISTEMAS Y COMPUTACIÓN



PROYECTOS DEL CURSO DE ARQUITECTURA DE SOFTWARE

Integrantes:

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Materia: ARQUITECTURA DE SOFTWARE

Sección: B1

Ciclo: VII

2024

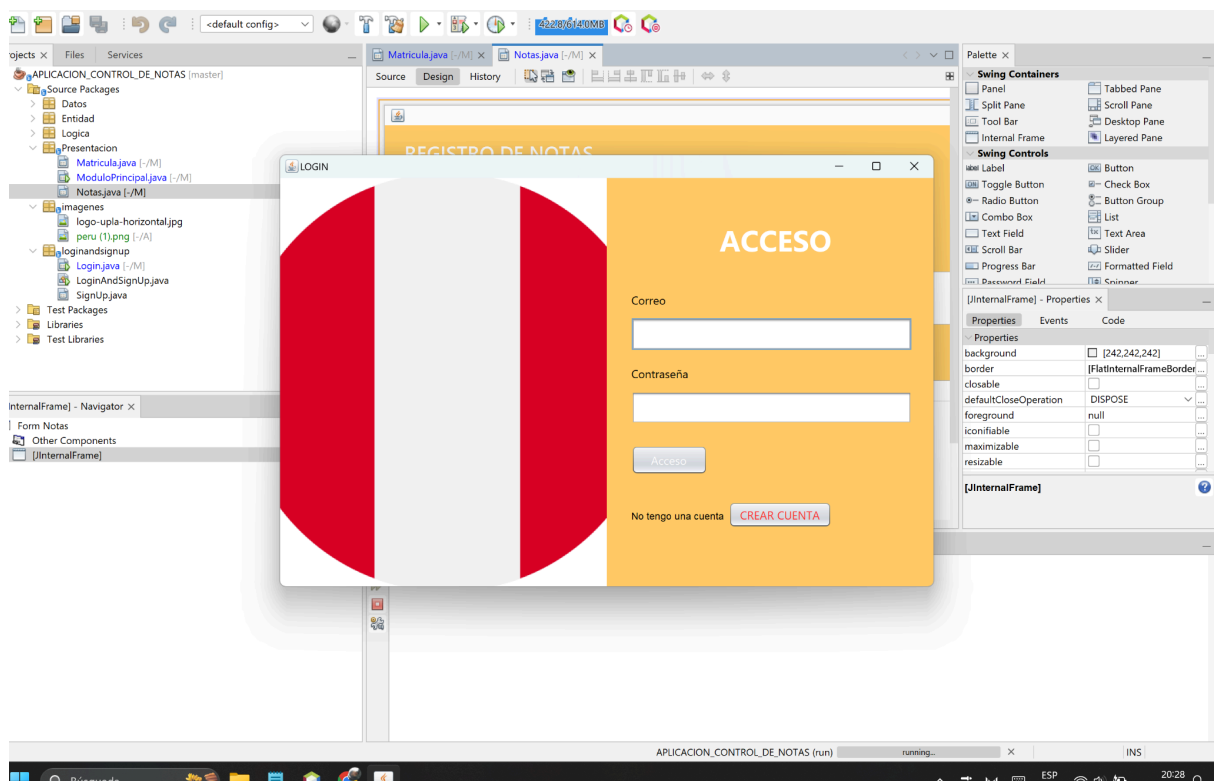
Huancayo-Perú

PROYECTO 01

REQUERIMIENTOS FUNCIONALES

Módulo de Autenticación (Login)

- **RF01:** El sistema debe permitir que los profesores inicien sesión con un **usuario** y **contraseña**.
- **RF02:** El sistema debe validar las credenciales de los profesores contra una base de datos de usuarios registrados.
- **RF03:** El sistema debe bloquear el acceso después de tres intentos fallidos de inicio de sesión.
- **RF04:** El sistema debe ofrecer una opción para que el profesor cierre sesión de manera segura.



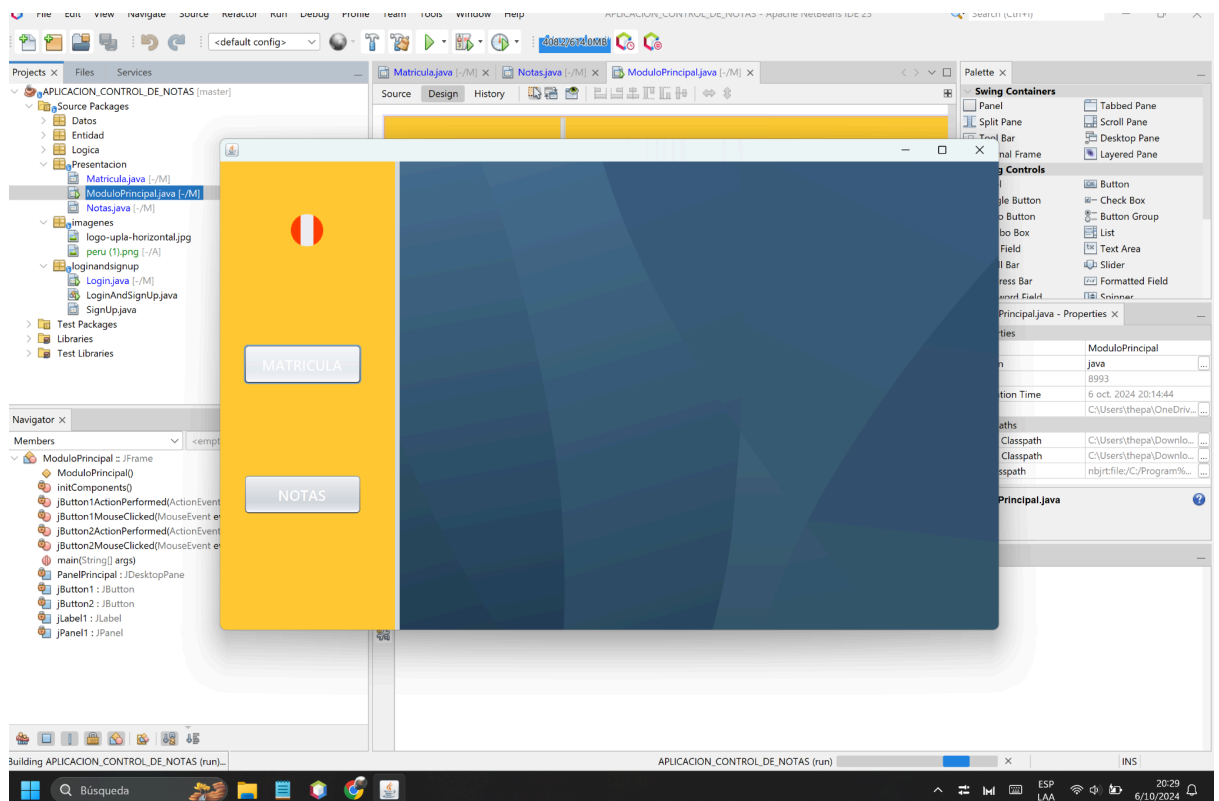
2. Módulo Principal

2.1. Registro de Notas

- **RF05:** El sistema debe permitir a los profesores registrar las notas de los estudiantes.
- **RF06:** El sistema debe permitir visualizar las asignaturas y los estudiantes matriculados en cada una.
- **RF07:** El sistema debe calcular el promedio final del estudiante basado en las notas ingresadas.
- **RF08:** El sistema debe permitir modificar las notas de los estudiantes antes de la fecha límite establecida.
- **RF09:** El sistema debe generar reportes de calificaciones por estudiante, asignatura o curso.

2.2. Registro de Matrículas

- **RF10:** El sistema debe permitir registrar la matrícula de los estudiantes a cursos o asignaturas.
- **RF11:** El sistema debe permitir actualizar y eliminar el registro de matrícula.
- **RF12:** El sistema debe validar que los estudiantes no se matriculen en cursos que ya hayan aprobado.
- **RF13:** El sistema debe permitir la visualización del historial de matrículas de los estudiantes.



3. Gestión de Usuarios

- **RF14:** El sistema debe permitir gestionar (crear, actualizar, eliminar) los perfiles de los profesores.
- **RF15:** El sistema debe tener roles de usuario, como administrador y profesor, con diferentes niveles de acceso.
- **RF16:** El sistema debe permitir la recuperación de contraseñas a través de preguntas de seguridad o correo electrónico.

4. Gestión de Estudiantes

- **RF17:** El sistema debe permitir registrar, modificar y eliminar la información de los estudiantes.
- **RF18:** El sistema debe permitir la búsqueda de estudiantes por nombre, identificación o curso matriculado.

The screenshot shows a web application interface with a yellow sidebar on the left and a main content area on the right. The sidebar contains a red and white circular logo and two buttons: 'MATRICULA' and 'NOTAS'. The main content area is titled 'REGISTRO DE MATRICULAS' and contains a form for registering students. The form has five input fields: 'Nombre', 'DNI', 'Celular', 'Edad', and 'Direccion'. Below the form are two buttons: 'Cancelar' and 'Registrar'. At the bottom of the main content area is a table with five columns: 'DNI', 'Nombre', 'Celular', 'Edad', and 'Dirección'. The table contains four rows of data, with the third row highlighted in blue.

DNI	Nombre	Celular	Edad	Dirección
77562389	Italo Paul Ore Come...	991958978	20	los mont
76048329	Renzo Espinoza Mar...	993259878	18	Cal
78451236	Lucho	987654321	20	
20028823	Italo Ore Ramos	948579277	18	Jr Ica Nueva 666

5. Reportes

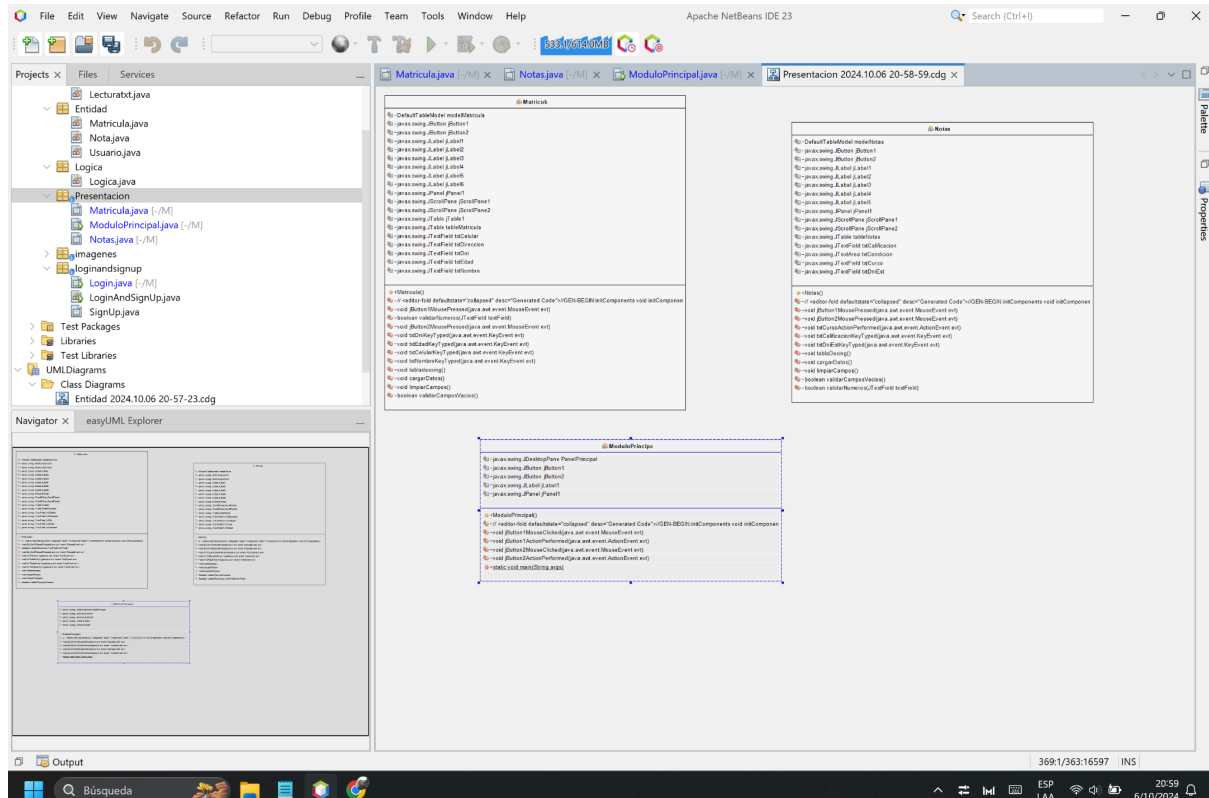
- **RF19:** El sistema debe permitir generar reportes de notas por curso, por estudiante o por período académico.
- **RF20:** El sistema debe permitir exportar los reportes en formatos como PDF o Excel.

6. Seguridad

- **RF21:** El sistema debe contar con un registro de actividades (logs) que guarde los accesos y acciones importantes realizadas por los usuarios.
- **RF22:** Las contraseñas deben ser almacenadas de manera segura (hashing) en la base de datos.
- **RF23:** El sistema debe contar con una capa de cifrado para proteger la información sensible, como las notas y datos personales de los estudiantes.



DIAGRAMA DE CLASES



CÓDIGO DE LA APLICACIÓN

PANEL PRINCIPAL

```
import javax.swing.JFrame;
import javax.swing.UIManager;
```

```
public class ModuloPrincipal extends javax.swing.JFrame {
```

```
    public ModuloPrincipal() {
        initComponents();
        this.setLocationRelativeTo(null);
    }
```

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

```

jPanel1 = new javax.swing.JPanel();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();
jLabel1 = new javax.swing.JLabel();
PanelPrincipal = new javax.swing.JDesktopPane();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jPanel1.setBackground(new java.awt.Color(255, 204, 51));

jButton1.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
jButton1.setForeground(new java.awt.Color(255, 255, 255));
jButton1.setText("MATRICULA");
jButton1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jButton1MouseClicked(evt);
    }
});
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jButton2.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
jButton2.setForeground(new java.awt.Color(255, 255, 255));
jButton2.setText("NOTAS");
jButton2.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jButton2MouseClicked(evt);
    }
});
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setIcon(new
javax.swing.ImageIcon("C:\\Users\\thepa\\Downloads\\icons8-circular-peru-48.png")); //
NOI18N

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jButton1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jButton2)
            .addContainerGap(100, false)
        )
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1)
            .addContainerGap(100, false)
        )
);

```

```

        .addGap(29, 29, 29)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 147, Short.MAX_VALUE)
            .addComponent(jButton2, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 205, Short.MAX_VALUE)
            .addContainerGap())
        );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(26, 26, 26)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 118, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(82, 82, 82)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 50, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(111, 111, 111)
            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 50, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );

    PanelPrincipal.setBackground(new java.awt.Color(255, 204, 51));

    javax.swing.GroupLayout PanelPrincipalLayout = new
    javax.swing.GroupLayout(PanelPrincipal);
    PanelPrincipal.setLayout(PanelPrincipalLayout);
    PanelPrincipalLayout.setHorizontalGroup(

    PanelPrincipalLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 743, Short.MAX_VALUE)
    );
    PanelPrincipalLayout.setVerticalGroup(

    PanelPrincipalLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 580, Short.MAX_VALUE)
    );

```



```

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(PanelPrincipal))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(PanelPrincipal, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        );

```

```

        pack();
    } // </editor-fold>

```

```

private void jButton1MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    Matricula est = new Matricula();
    PanelPrincipal.add(est);
    est.setVisible(true);
}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

private void jButton2MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    Notas estu = new Notas();
    PanelPrincipal.add(estu);
    estu.setVisible(true);
}

```

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

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(ModuloPrincipal.class.getName()).log(java.util.logging.Le
            vel.SEVERE, null, ex);
        } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(ModuloPrincipal.class.getName()).log(java.util.logging.Le
            vel.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(ModuloPrincipal.class.getName()).log(java.util.logging.Le
            vel.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

        java.util.logging.Logger.getLogger(ModuloPrincipal.class.getName()).log(java.util.logging.Le
            vel.SEVERE, null, ex);
        }
        //</editor-fold>
        JFrame.setDefaultLookAndFeelDecorated(true);
        /* Create and display the form */
        try{
            UIManager.setLookAndFeel("com.jtattoo.plaf.mcwin.McWinLookAndFeel");
        }catch(Exception e){

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

    // Variables declaration - do not modify
    private javax.swing.JDesktopPane PanelPrincipal;
    private javax.swing.JButton jButton1;

```

```

private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JPanel jPanel1;
// End of variables declaration
}

```

MATRICULA

```

import Datos.Escrituratxt;
import Datos.Lecturatxt;
import java.awt.Toolkit;
import java.awt.event.KeyEvent;
import java.util.List;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author USER 17
 */
public class Matricula extends javax.swing.JInternalFrame {

    /**
     * Creates new form DueniosFrame
     */
    private DefaultTableModel modelMatricula;

    public Matricula() {
        initComponents();
        tabladessing();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jScrollPane2 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jPanel1 = new javax.swing.JPanel();
        jLabel4 = new javax.swing.JLabel();
        txtNombre = new javax.swing.JTextField();
    }

```

```

txtDni = new javax.swing.JTextField();
txtEdad = new javax.swing.JTextField();
jLabel1 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
txtCelular = new javax.swing.JTextField();
jLabel6 = new javax.swing.JLabel();
txtDireccion = new javax.swing.JTextField();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
tableMatricula = new javax.swing.JTable();
jLabel2 = new javax.swing.JLabel();

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
jScrollPane2.setViewportView(jTable1);

jPanel1.setBackground(new java.awt.Color(255, 204, 102));

jLabel4.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
jLabel4.setForeground(new java.awt.Color(255, 255, 255));
jLabel4.setText("Edad");

txtNombre.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyTyped(java.awt.event.KeyEvent evt) {
        txtNombreKeyTyped(evt);
    }
});

txtDni.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyTyped(java.awt.event.KeyEvent evt) {
        txtDniKeyTyped(evt);
    }
});

txtEdad.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyTyped(java.awt.event.KeyEvent evt) {
        txtEdadKeyTyped(evt);
    }
});

```

```

    }
});

jLabel1.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Nombre");

jLabel3.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
jLabel3.setForeground(new java.awt.Color(255, 255, 255));
jLabel3.setText("DNI");

jLabel5.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setText("Celular");

txtCelular.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyTyped(java.awt.event.KeyEvent evt) {
        txtCelularKeyTyped(evt);
    }
});

jLabel6.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
jLabel6.setForeground(new java.awt.Color(255, 255, 255));
jLabel6.setText("Direccion");

jButton1.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
jButton1.setText("Registrar");
jButton1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mousePressed(java.awt.event.MouseEvent evt) {
        jButton1MousePressed(evt);
    }
});

jButton2.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
jButton2.setText("Cancelar");
jButton2.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mousePressed(java.awt.event.MouseEvent evt) {
        jButton2MousePressed(evt);
    }
});

tableMatricula.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String[] {

```

```

        new String [] {
            "Title 1", "Title 2", "Title 3", "Title 4"
        }
    ));
    jScrollPane1.setViewportView(tableMatricula);

    jLabel2.setFont(new java.awt.Font("Yu Gothic UI", 1, 24)); // NOI18N
    jLabel2.setForeground(new java.awt.Color(255, 255, 255));
    jLabel2.setText("REGISTRO DE MATRICULAS");

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(134, 134, 134)
                .addComponent(jButton2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jButton1)
                .addGap(73, 73, 73)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel2)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
                            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE,
                            69, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(39, 39, 39)
                        .addComponent(txtNombre,
                            javax.swing.GroupLayout.Alignment.TRAILING,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 178,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(txtCelular,
                            javax.swing.GroupLayout.Alignment.TRAILING,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 178,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(72, 72, 72)
                    )
                )
            )
    );

```

```

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel3)
    .addComponent(jLabel4))
.addGap(33, 33, 33)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(txtEdad, javax.swing.GroupLayout.PREFERRED_SIZE,
150, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(txtDni, javax.swing.GroupLayout.PREFERRED_SIZE,
150, javax.swing.GroupLayout.PREFERRED_SIZE)))
.addGroup(jPanel1Layout.createSequentialGroup()
    .addComponent(jLabel6)
    .addGap(30, 30, 30)
    .addComponent(txtDireccion, javax.swing.GroupLayout.PREFERRED_SIZE,
473, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
693, javax.swing.GroupLayout.PREFERRED_SIZE))
.addContainerGap(26, Short.MAX_VALUE))
);
jPanel1Layout.setVerticalGroup(
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel1Layout.createSequentialGroup()
    .addContainerGap()
    .addComponent(jLabel2)
    .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel1)
    .addComponent(txtNombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel3)
    .addComponent(txtDni, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel4)
    .addComponent(txtEdad, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel5)
    .addComponent(txtCelular, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)

```

```

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel6)
    .addComponent(txtDireccion, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(39, 39, 39)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jButton2)
    .addComponent(jButton1))
    .addGap(27, 27, 27)
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 228,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addContainerGap(54, Short.MAX_VALUE))
);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addContainerGap())
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
    .addContainerGap()
    .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
);

pack();
} // </editor-fold>

```

```

private void jButton1MousePressed(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    if (validarCamposVacios() && validarNumeros(txtEdad) && validarNumeros(txtCelular)
&& validarNumeros(txtDni)) {
        Escritura txtEscribir = new Escritura(txt);
        int edad = Integer.parseInt(txtEdad.getText());
        int dni = Integer.parseInt(txtDni.getText());
    }
}

```



```

        int celular = Integer.parseInt(txtCelular.getText());
        Entidad.Matricula estud = new Entidad.Matricula(txtNombre.getText(), celular, edad,
txtDireccion.getText(), dni);
        escribir.registrarEst(estud);
        tabladessing();
    } else {
        JOptionPane.showMessageDialog(this, "Los datos ingresados no son validos");
    }
}

```

```

private boolean validarNumeros(JTextField textField) {
    String texto = textField.getText().trim(); // Obtener el texto del JTextField y eliminar
    espacios en blanco

    // Verificar si el texto contiene solo números
    if (texto.matches("\\d+")) { // El patrón "\\d+" verifica que el texto contenga solo dígitos
        return true; // El texto contiene solo números
    } else {
        return false; // El texto contiene caracteres que no son números
    }
}

```

```

private void jButton2MousePressed(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    limpiarCampos();
}

```

```

private void txtDniKeyTyped(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
    char key = evt.getKeyChar();
    // Verificar si la tecla presionada es un número o una tecla de borrar
    boolean num = Character.isDigit(key);
    boolean esBorrar = key == KeyEvent.VK_DELETE || key ==
KeyEvent.VK_BACK_SPACE;
    if (!num && !esBorrar) {
        Toolkit.getDefaultToolkit().beep();
        JOptionPane.showMessageDialog(null, "Por favor, ingrese solo números.");
        evt.consume();
    }
    if (txtDni.getText().trim().length() == 8) {
        Toolkit.getDefaultToolkit().beep();
        JOptionPane.showMessageDialog(null, "Por favor, ingrese un número de rango 8
digitos");
        evt.consume();
    }
}

```

```

private void txtEdadKeyTyped(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
}

```

```

// TODO add your handling code here:
char key = evt.getKeyChar();
// Verificar si la tecla presionada es un número o una tecla de borrar
boolean num = Character.isDigit(key);
boolean esBorrar = key == KeyEvent.VK_DELETE || key ==
KeyEvent.VK_BACK_SPACE;
if (!num && !esBorrar) {
    Toolkit.getDefaultToolkit().beep();
    JOptionPane.showMessageDialog(null, "Por favor, ingrese solo números.");
    evt.consume();
}
if (txtEdad.getText().trim().length() == 2) {
    Toolkit.getDefaultToolkit().beep();
    JOptionPane.showMessageDialog(null, "Por favor, ingrese un número de rango 2
digitos");
    evt.consume();
}
}

```

```

private void txtCelularKeyTyped(java.awt.event.KeyEvent evt) {
// TODO add your handling code here:
char key = evt.getKeyChar();
// Verificar si la tecla presionada es un número o una tecla de borrar
boolean num = Character.isDigit(key);
boolean esBorrar = key == KeyEvent.VK_DELETE || key ==
KeyEvent.VK_BACK_SPACE;
if (!num && !esBorrar) {
    Toolkit.getDefaultToolkit().beep();
    JOptionPane.showMessageDialog(null, "Por favor, ingrese solo números.");
    evt.consume();
}
if (txtCelular.getText().trim().length() == 9) {
    Toolkit.getDefaultToolkit().beep();
    JOptionPane.showMessageDialog(null, "Por favor, ingrese un número de rango 9
digitos");
    evt.consume();
}
}

```

```

private void txtNombreKeyTyped(java.awt.event.KeyEvent evt) {
// TODO add your handling code here:
char c = evt.getKeyChar();
if (!(Character.isLetter(c) || c == KeyEvent.VK_BACK_SPACE || c ==
KeyEvent.VK_DELETE || c == KeyEvent.VK_SPACE)) {
    evt.consume();
    Toolkit.getDefaultToolkit().beep();
    JOptionPane.showMessageDialog(null, "Por favor, ingrese solo letras.");
}
}

```

```

}

private void tabladessing() {
    // Crear el modelo de la tabla
    modelMatricula = new DefaultTableModel(new Object[]{"DNI", "Nombre", "Celular",
"Edad", "Dirección"}, 0);
    tableMatricula.setModel(modelMatricula);
    cargarDatos();
}

private void cargarDatos() {
    Lecturatxt leer = new Lecturatxt();
    List<Entidad.Matricula> listaEstu = leer.leerEst();

    for (Entidad.Matricula estu : listaEstu) {
        modelMatricula.addRow(new Object[]{estu.getDni(), estu.getNombre(),
estu.getCelular(), estu.getEdad(), estu.getDireccion()});
    }
}

private void limpiarCampos() {
    txtCelular.setText("");
    txtDireccion.setText("");
    txtDni.setText("");
    txtEdad.setText("");
    txtNombre.setText("");
}

private boolean validarCamposVacios() {
    boolean camposVacios = false;

    // Aquí añade todos tus JTextField que quieres validar
    JTextField[] campos = {txtCelular, txtDireccion, txtDni, txtEdad, txtNombre}; // Asume
que tienes estos campos definidos

    for (JTextField campo : campos) {
        if (campo.getText().trim().isEmpty()) { // Comprueba si el texto está vacío o solo
contiene espacios
            camposVacios = true;
            break; // Si encuentras un campo vacío, sales del bucle
        }
    }

    if (camposVacios) {
        JOptionPane.showMessageDialog(this, "Por favor, rellena todos los campos.",
"Campos Vacíos", JOptionPane.WARNING_MESSAGE);
    }
}

```

```

        return !camposVacios; // Retorna true si todos los campos están llenos, false si hay
        algún campo vacío
    }

```

```

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
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.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTable jTable1;
private javax.swing.JTable tableMatricula;
private javax.swing.JTextField txtCelular;
private javax.swing.JTextField txtDireccion;
private javax.swing.JTextField txtDni;
private javax.swing.JTextField txtEdad;
private javax.swing.JTextField txtNombre;
// End of variables declaration
}

```

NOTAS

```

import Datos.EscrituraTxt;
import Datos.LecturaTxt;
import Entidad.Nota;
import Logica.Logica;
import java.awt.Toolkit;
import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
import java.util.List;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author USER 17
 */
public class Notas extends javax.swing.JInternalFrame {

```

```

/**
 * Creates new form MascotaFrame
 */
private DefaultTableModel modelNotas;

public Notas() {
    initComponents();
    tablaDesing();
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    txtCurso = new javax.swing.JTextField();
    txtCalificacion = new javax.swing.JTextField();
    jLabel3 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    txtCondicion = new javax.swing.JTextArea();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jLabel4 = new javax.swing.JLabel();
    txtDniEst = new javax.swing.JTextField();
    jScrollPane2 = new javax.swing.JScrollPane();
    tableNotas = new javax.swing.JTable();
    jLabel5 = new javax.swing.JLabel();

    jPanel1.setBackground(new java.awt.Color(255, 204, 102));
    jPanel1.setPreferredSize(new java.awt.Dimension(725, 575));

    jLabel1.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
    jLabel1.setText("CURSO");

    jLabel2.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
    jLabel2.setForeground(new java.awt.Color(255, 255, 255));
    jLabel2.setText("CALIFICACION");

    txtCurso.addActionListener(new java.awt.event.ActionListener() {

```

```

        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtCursoActionPerformed(evt);
        }
    });

    txtCalificacion.addKeyListener(new java.awt.event.KeyAdapter() {
        public void keyTyped(java.awt.event.KeyEvent evt) {
            txtCalificacionKeyTyped(evt);
        }
    });

    jLabel3.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
    jLabel3.setForeground(new java.awt.Color(255, 255, 255));
    jLabel3.setText("CONDICIÓN DE ESTUDIANTE");

    txtCondicion.setColumns(20);
    txtCondicion.setRows(5);
    jScrollPane1.setViewportView(txtCondicion);

    jButton1.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
    jButton1.setText("Registrar");
    jButton1.addMouseListener(new java.awt.event.MouseAdapter() {
        public void mousePressed(java.awt.event.MouseEvent evt) {
            jButton1MousePressed(evt);
        }
    });

    jButton2.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
    jButton2.setText("Cancelar");
    jButton2.addMouseListener(new java.awt.event.MouseAdapter() {
        public void mousePressed(java.awt.event.MouseEvent evt) {
            jButton2MousePressed(evt);
        }
    });

    jLabel4.setFont(new java.awt.Font("Yu Gothic UI", 1, 18)); // NOI18N
    jLabel4.setForeground(new java.awt.Color(255, 255, 255));
    jLabel4.setText("DNI DEL EST.");

    txtDniEst.addKeyListener(new java.awt.event.KeyAdapter() {
        public void keyTyped(java.awt.event.KeyEvent evt) {
            txtDniEstKeyTyped(evt);
        }
    });

    tableNotas.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {
            {null, null, null, null},

```

```

        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
jScrollPane2.setViewportViewView(tableNotas);

jLabel5.setFont(new java.awt.Font("Yu Gothic UI", 1, 24)); // NOI18N
jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setText("REGISTRO DE NOTAS");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(82, 82, 82)
            .addComponent(jButton1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jButton2)
            .addGap(196, 196, 196)
            .addComponent(jPanel1Layout.createSequentialGroup()
                .addGap(24, 24, 24)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel3)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jLabel4)
                        .addGap(18, 18, 18)
                        .addComponent(txtDniEst,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 135,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(68, 68, 68)
                        .addComponent(jLabel2)
                        .addGap(18, 18, 18)
                        .addComponent(txtCalificacion,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 126,
                            javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addComponent(jLabel5))
                .addGap(18, 18, 18))
            .addGap(18, 18, 18)
        )
);

```

```

        .addComponent(jLabel5)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jLabel1)
            .addGap(53, 53, 53)
            .addComponent(txtCurso)))
        .addContainerGap(118, Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jScrollPane1,
javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jScrollPane2, javax.swing.GroupLayout.DEFAULT_SIZE,
684, Short.MAX_VALUE))
        .addGap(23, 23, 23)))
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(17, 17, 17)
                .addComponent(jLabel5)
                .addGap(12, 12, 12)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel1)
    .addComponent(txtCurso, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel2)
    .addComponent(txtCalificacion, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel4)
    .addComponent(txtDniEst, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addComponent(jLabel3)
    .addGap(11, 11, 11)
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 65,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel2)
    .addComponent(txtCalificacion, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel4)
    .addComponent(txtDniEst, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 65,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel2)
    .addComponent(txtCalificacion, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel4)
    .addComponent(txtDniEst, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 65,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)

```



```

        .addComponent(jButton2)
        .addComponent(jButton1))
        .addGap(18, 18, 18)
        .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 228,
javax.swing.GroupLayout.PREFERRED_SIZE))
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 731,
Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
            .addGap(0, 0, Short.MAX_VALUE)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    );

    pack();
} // </editor-fold>

```

```

private void jButton1MousePressed(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    Logica duenio = new Logica();
    if (duenio.buscarEstPorDni(txtDniEst.getText()) && validarCamposVacios() &&
validarNumeros(txtCalificacion) && validarNumeros(txtDniEst)) {
        int dni = Integer.parseInt(txtDniEst.getText());
        int calif = Integer.parseInt(txtCalificacion.getText());
        Nota mascota = new Nota(dni, txtCurso.getText(), calif, txtCondicion.getText());
        Escritura txt escribir = new Escritura(txt);
        escribir.registrarNota(mascota);
        tablaDesing();
        limpiarCampos();
    } else {
        JOptionPane.showMessageDialog(this, "Los datos ingresados no son validos");
    }
}

```

```

private void jButton2MousePressed(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:

```

```

        limpiarCampos();
    }

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

    private void txtCalificacionKeyTyped(java.awt.event.KeyEvent evt) {
        // TODO add your handling code here:
        char key = evt.getKeyChar();
        // Verificar si la tecla presionada es un número o una tecla de borrar
        boolean num = Character.isDigit(key);
        boolean esBorrar = key == KeyEvent.VK_DELETE || key ==
        KeyEvent.VK_BACK_SPACE;

        // Convertir el texto actual a un número para verificar el rango
        String textoActual = txtCalificacion.getText() + key;
        int valorIngresado = 0;
        try {
            valorIngresado = Integer.parseInt(textoActual);
        } catch (NumberFormatException e) {
            // Si el texto no se puede convertir a un número, no hacer nada
        }

        if (!num && !esBorrar) {
            Toolkit.getDefaultToolkit().beep();
            JOptionPane.showMessageDialog(null, "Por favor, ingrese solo números.");
            evt.consume();
        } else if (valorIngresado < 0 || valorIngresado > 20) {
            Toolkit.getDefaultToolkit().beep();
            JOptionPane.showMessageDialog(null, "Por favor, ingrese un número entre 0 y
20.");
            evt.consume();
        }

        if (txtCalificacion.getText().trim().length() == 2) {
            Toolkit.getDefaultToolkit().beep();
            JOptionPane.showMessageDialog(null, "Por favor, ingrese un número de rango
vigesimal");
            evt.consume();
        }
    }

    private void txtDniEstKeyTyped(java.awt.event.KeyEvent evt) {
        // TODO add your handling code here:
        char key = evt.getKeyChar();
        // Verificar si la tecla presionada es un número o una tecla de borrar

```

```

        boolean num = Character.isDigit(key);
        boolean esBorrar = key == KeyEvent.VK_DELETE || key ==
KeyEvent.VK_BACK_SPACE;
        if (!num && !esBorrar) {
            Toolkit.getDefaultToolkit().beep();
            JOptionPane.showMessageDialog(null, "Por favor, ingrese solo números.");
            evt.consume();
        }
        if (txtDniEst.getText().trim().length() == 8) {
            Toolkit.getDefaultToolkit().beep();
            JOptionPane.showMessageDialog(null, "Por favor, ingrese un número de rango 8
digitos");
            evt.consume();
        }
    }
    /**/
    private void tablaDesing() {
        modelNotas = new DefaultTableModel(new Object[]{"Estudiante", "Curso",
"Calificacion", "Condicion"}, 0);
        tableNotas.setModel(modelNotas);
        cargarDatos();
    }

    private void cargarDatos() {
        Lecturatxt leer = new Lecturatxt();
        Logica estu = new Logica();
        List<Nota> listaEstu = leer.leerNota();

        for (Nota estud : listaEstu) {
            String dniEstStr = String.valueOf(estud.getDniEst());
            String nombreEst = estu.buscarNombreEstPorDni(dniEstStr);
            modelNotas.addRow(new Object[]{nombreEst, estud.getCurso(),
estud.getCalificacion(), estud.getCondicion()});
        }
    }

    private void limpiarCampos() {
        txtCondicion.setText("");
        txtDniEst.setText("");
        txtCalificacion.setText("");
        txtCurso.setText("");
    }

    private boolean validarCamposVacios() {
        boolean camposVacios = false;

        // Aquí añada todos tus JTextField que quieres validar

```

```
    JTextField[] campos = {txtDniEst, txtCalificacion, txtCurso}; // Asume que tienes estos campos definidos
```

```
    for (JTextField campo : campos) {  
        if (campo.getText().trim().isEmpty()) { // Comprueba si el texto está vacío o solo contiene espacios  
            camposVacios = true;  
            break; // Si encuentras un campo vacío, sales del bucle  
        }  
    }
```

```
    if (camposVacios) {  
        JOptionPane.showMessageDialog(this, "Por favor, rellena todos los campos.",  
"Campos Vacíos", JOptionPane.WARNING_MESSAGE);  
    }
```

```
    return !camposVacios; // Retorna true si todos los campos están llenos, false si hay algún campo vacío  
}
```

```
private boolean validarNumeros(JTextField textField) {  
    String texto = textField.getText().trim(); // Obtener el texto del JTextField y eliminar espacios en blanco  
  
    // Verificar si el texto contiene solo números  
    if (texto.matches("\\d+")) { // El patrón "\\d+" verifica que el texto contenga solo dígitos  
        return true; // El texto contiene solo números  
    } else {  
        return false; // El texto contiene caracteres que no son números  
    }  
}
```

```
// Variables declaration - do not modify  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
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.JPanel jPanel1;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JScrollPane jScrollPane2;  
private javax.swing.JTable tableNotas;  
private javax.swing.JTextField txtCalificacion;  
private javax.swing.JTextArea txtCondicion;  
private javax.swing.JTextField txtCurso;
```

```
private javax.swing.JTextField txtDniEst;  
// End of variables declaration  
}
```