UNIVERSIDAD DE GUADALAJARA

CENTRO UNIVERSITARIO DE CIENCIAS EXACTAS E INGENIERIAS

Manual técnico

Proyecto: Sistema baluarte

SEMINARIO DE SOLUCIÓN DE PROBLEMAS DE INGENIERÍA EN SOFTWARE

Desarrolladores:

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Carrera:

Ing. En Computación (INCO)

Departamento de Ciencias Computacionales

Sistema Baluarte

MANUAL TÉCNICO

CONTENIDO

1. Objetivos

El principal objetivo de este documento es mostrar el funcionamiento del programa desarrollado, al mismo tiempo en el que se muestra como fue diseñado el sistema y sus diversas características. El manual esta dirigido al programador que quiera dar un vistazo a como es que el programa fue diseñado y ver sus diferentes etapas, también representaciones visuales a través de diversos diagramas y conocer el código fuente de este.

En caso de algún fallo del software, este manual puede resultar de gran ayuda al programador que intente resolver todos los inconvenientes causados.

1.1. Objetivos específicos

- Mostrar el código fuente para una posible actualización del programa
- Requisitos para la ejecución de la aplicación
- Evidencias del desarrollo del programa antes de la implementación (diagramas de clase, diagramas de casos de uso, diagrama de objetos, etc.)

2. Alcance

El manual esta dirigido a los programadores y a cualquier persona que tenga autorización para manejar el programa, en especial los administradores

Conocimientos necesarios: Lenguaje de programación Java y bases de datos en PostgreSQL.

3. Requerimientos técnicos

Software

- Gestor de bases de datos PostgreSQL: Para la administración de toda la información guardada tal como los datos de los empleados, datos de la nómina, datos de evaluaciones, etc.
- IDE para Java: Un IDE que permita programar en Lenguaje de programación Java, el mejor ejemplo es el programa NetBeans
- Lector de archivos PDF: Un programa que permita leer archivos PDF, el mejor ejemplo es el programa Acrobat Reader DC

Hardware

- Una computadora completa. Con esto nos referimos a que cuente con teclado, pantalla, ratón, etc.

3.1 Requerimientos mininos de Software

Privilegios de Administrador: No

Sistemas operativos soportados: Windows 7, 8, 8.1, 10

3.2 Requerimientos mininos de Hardware

Procesador: Intel inside 1.5 ghz

Memoria RAM: 512 mb

Disco Duro:

4. Herramientas utilizadas para el desarrollo

- IDE Netbeans: Con este IDE se genero todo el código del programa, ya que está estructurado en Java
- Gestor de bases de datos PostgreSQL: Para la administración de toda la información guardada tal como los datos de los empleados, datos de la nómina, datos de evaluaciones, etc.

5. Instalación/Ejecución

En si el programa no necesita ninguna instalación ya que solo será un archivo ejecutable que nosotros entregaremos a la empresa junto con la base de datos ya diseñada, en ese caso lo mejor es que se instale PostgreSQL en los equipos en los que se utilizara dicho programa

El programa aparecerá de la siguiente manera:

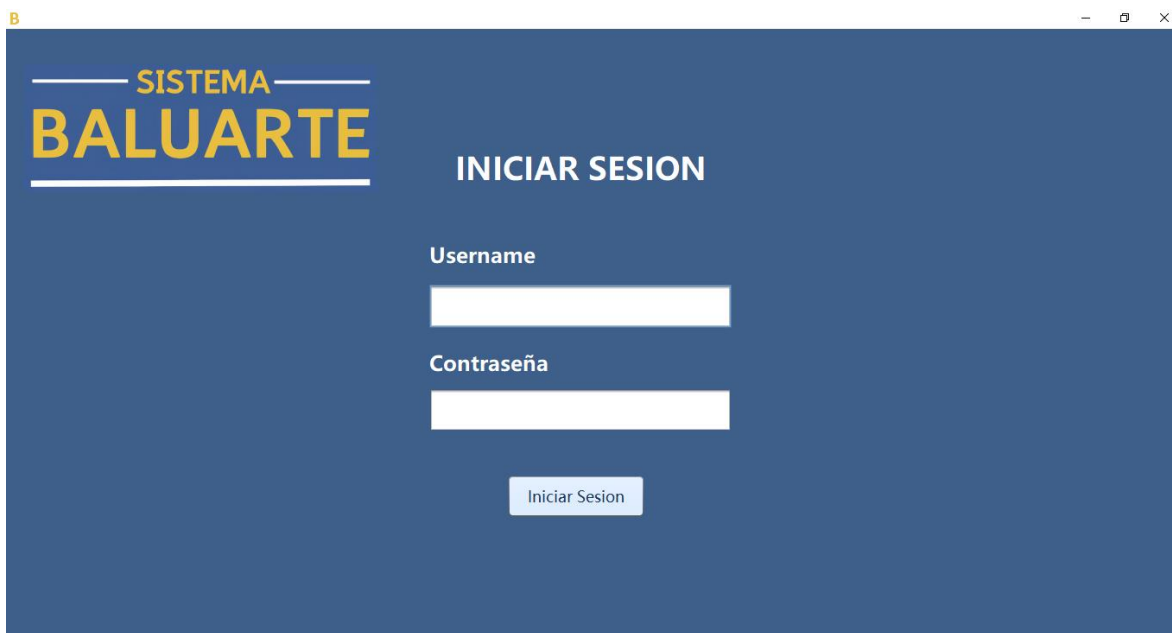Y para empezar a usar el programa solo sería ejecutarlo y a continuación aparecería la ventana de inicio

Ilustración 1 Ventana de inicio

Y después de que ingreses el Username y la Contraseña se podrá usar el programa libremente

6. Configuración

No hay una configuración general para la aplicación, en si viene configurada y los comandos son intuitivos para el usuario o programador que quiere manejar el programa y hacer modificaciones al sistema.

7. Análisis

Cuando fuimos a consultar la problemática de la empresa recabamos la siguiente información:

Problemáticas:

1. **Falta de automatización en las áreas de contabilidad y recursos humanos**

   ➢ Sistema de inventariado, sistema de costos y gastos, fijación de precios y nóminas y estados financieros

➢ Evaluación de personal a través de encuestas de rendimiento realizadas por el encargado de área y los resultados tienen que entregarse cada final de semana/mes. Esta ventana tiene que estar conectada a SQL

➢ Rubrica de tareas

➢ Cálculo de nómina con relación a los reportes semanales de la evaluación de rendimiento y la rúbrica de tareas

2. **Falta de organización**

➢ Control de actividades contables: organización de citas, reuniones, actividades propias y conjuntas

Toda esta información fue analizada y depurada para empezar con el desarrollo del programa. En los siguientes diagramas se registra el avance del proyecto.

Diagrama de Gantt

DIAGRAMA DE GANTT

TÍTULO DEL PROYECTO	Sistema Baluarte		NOMBRE DE LA EMPRESA	Baluarte
JEFE DEL PROYECTO	Diana Zepeda Tatengo		FECHA	10/10/21

NÚMERO EDT	TÍTULO DE LA TAREA	RESPONSABLE DE LA TAREA	FECHA DE INICIO	FECHA DE ENTREGA	DURACIÓN	DEPENDENCIA	% COMPLETADO DE LA TAREA
1	Selección de empresa	Kevin Limón Franco	24/08/21	29/08/21	2	–	100%
2	Recolección de datos	Diana Zepeda Tantengo	24/08/21	29/08/21	2	1	100%
3	Establecimiento de la descripcion general del proyecto	Kevin Limón Franco	24/08/21	29/08/21	2	2	100%
4	Establecimiento de los objetivos del sistema de software	Kevin Limón Franco	07/09/21	12/09/21	6	3	100%
5	Analisis de viabilidad	Kevin Limón Franco	14/09/21	19/09/21	2	4	100%
6	Gestión de riesgos	Diana Zepeda Tantengo	14/09/21	19/09/21	2	4	100%
7	Definición de métricas y estándares	Diana Zepeda Tantengo	14/09/21	19/09/21	2	4	100%
8	Descripción de las funcionalidades	Kevin Limón Franco	21/09/21	26/09/21	6	4	100%
9	Descripción de actividades y tareas	Diana Zepeda Tantengo	21/09/21	26/09/21	6	8	100%
10	Ingenieria de requerimientos	Diana Zepeda Tantengo	21/09/21	26/09/21	6	9	100%
11	Elaboración del diagrama de Gantt	Kevin Limón Franco	05/10/21	10/10/21	3	10	100%
12	Elaboración de diagrama de Pert	Diana Zepeda Tantengo	05/10/21	10/10/21	3	10	100%
13	Casos de uso	Diana Zepeda Tantengo	12/10/21	17/10/21	6	10	0%
14	Diseño estructural	Kevin Limón Franco	19/10/21	24/10/21	6	10	0%
15	Diseño de integración	Kevin Limón Franco	26/10/21	31/10/21	6	10	0%
16	Diseño lógico – físico	Diana Zepeda Tantengo	02/11/21	07/11/21	6	10	0%
17	Elaboración de Mock ups de interfaz	Kevin Limón Franco	09/11/21	14/11/21	2	–	0%
18	Diseño e implementación de interfaces	Kevin Limón Franco	09/11/21	14/11/21	4	17	0%

FASE UNO — SEMANA 1 · SEMANA 2 · SEMANA 3 · SEMANA 4 (L M X J V S D)

20	Diagrama Relacional	Diana Zepeda Tantengo	16/11/21	21/11/21	1	19	0%
21	Normalización	Diana Zepeda Tatengo	16/11/21	21/11/21	1	20	0%
22	Diccionario de Datos	Diana Zepeda Tatengo	16/11/21	21/11/21	1	21	0%
23	Consultas SQL	Diana Zepeda Tatengo	16/11/21	21/11/21	1	22	0%
24	Implementación de la Base de Datos	Diana Zepeda Tatengo	16/11/21	21/11/21	2	23	0%
25	Programacion de las principales caracteristicas del programa (creación de	Diana Zepeda Tatengo y Kevin Limón Franco	16/11/21	21/11/21	6	10	0%
26	Crear conexión entre interfaz y SQL	Kevin Limón Franco	16/11/21	21/11/21	1	18.24	0%
27	Implementacion de distintos tipos de usuario	Kevin Limón Franco	16/11/21	21/11/21	3	–	0%
28	Documentación de prueba funcional	Kevin Limón Franco	23/11/21	28/11/21	4	26	0%
29	Testeo del software	Kevin Limón Franco	23/11/21	28/11/21	2	18,24,25	0%
30	Corrección de errores	Kevin Limón Franco	23/11/21	28/11/21	2	29	0%
31	Creacion de manual de usuario y manual teenico	Diana Zepeda Tatengo	23/11/21	28/11/21	1	30	0%
32	Entrega Final / Reunion con el cliente	Kevin Limon Franco y Diana Zepeda Tatengo	30/11/21	05/12/21	1	31.28	0%

Diagrama de Pert

	ACTIVIDAD	PRECEDENTE	TIEMPO
A	Selección de empresa	-	2
B	Recolección de datos	A	2
C	Establecimiento de la descripción general del proyecto	B	2
D	Establecimiento de los objetivos del sistema de software	C	6
E	Análisis de viabilidad	D	2
F	Gestión de riesgos	D, E	2
G	Definición de métricas y estándares	D, F	2
H	Descripción de las funcionalidades	D, G	6
I	Descripción de actividades y tareas	H	6
J	Ingeniería de requerimientos	I	6
K	Elaboración del diagrama de Gantt	J	3
L	Elaboración de diagrama de Pert	J, K	3
M	Casos de uso	J, L	6
N	Diseño estructural	J, M	6
Ñ	Diseño de integración	J, N	6
O	Diseño lógico - físico	J, Ñ	6
P	Elaboración de Mock ups de interfaz	-	2

	ACTIVIDAD	PRECEDENTE	TIEMPO
Q	Diseño e implementación de interfaces	P	4
R	Diagrama Entidad-Relación	-	1
S	Diagrama Relacional	R	1
T	Normalización	S	1
U	Diccionario de Datos	T	1
V	Consultas SQL	V	1
W	Implementación de la Base de Datos	W	2
X	Programación de las principales características del programa (creación de nóminas, estados financieros, etc.	J, O	6
Y	Crear conexión entre interfaz y SQL	P, W	1
Z	Implementación de distintos tipos de usuario	-	3
AA	Documentación de prueba funcional	Y	4
AB	Testeo del software	Q, W, X,	2
AC	Corrección de errores	AB	2
AD	Creación de manual de usuario y manual técnico	AC	1
AE	Entrega Final / Reunión con el cliente	AD	1

Diagrama PERT
DIANA ZEPEDA TATENGO y KEVIN LIMÓN FRANCO
October 9, 2021
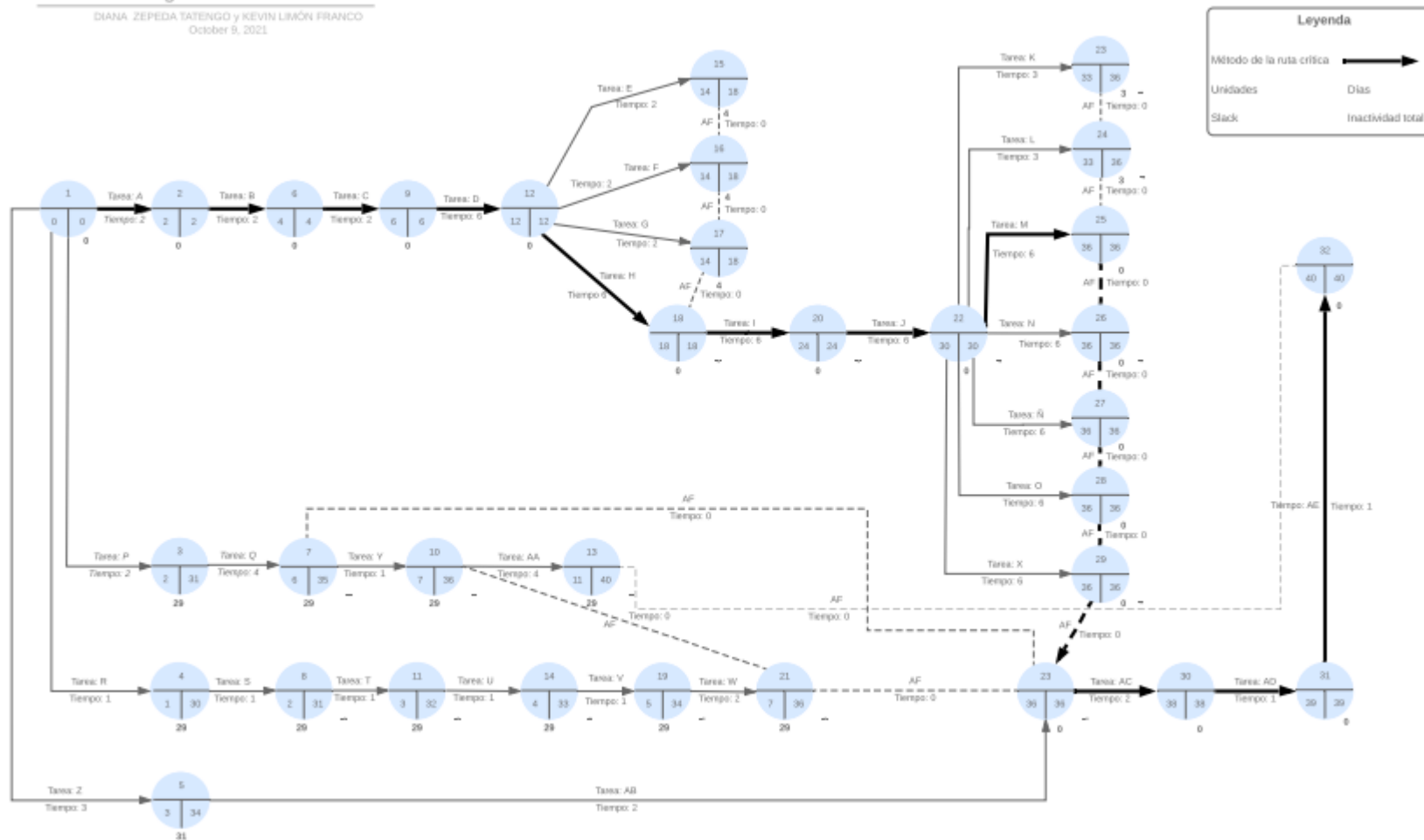
8. Diseño de la Arquitectura

Diagrama de casos de uso
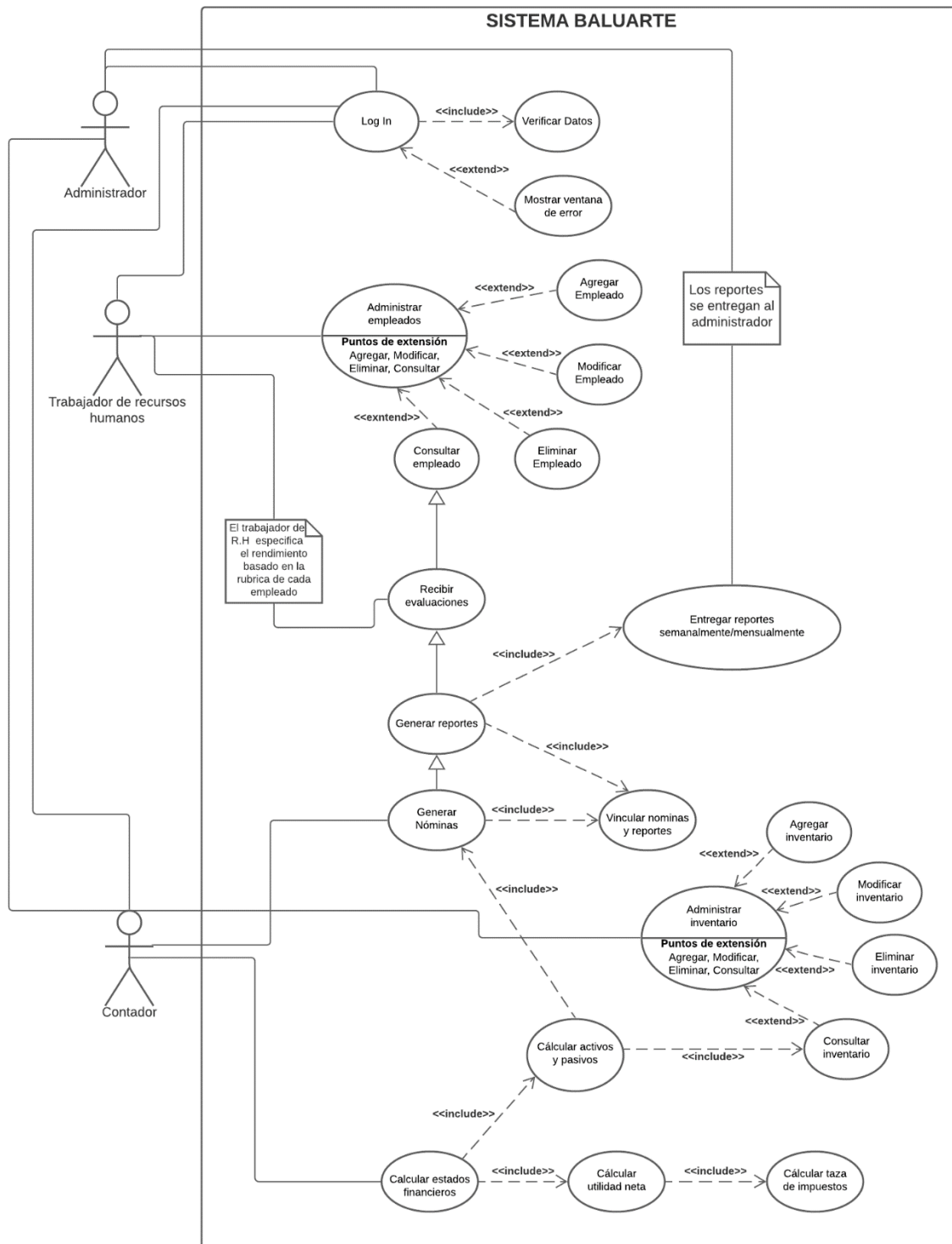
Diagrama de bloques

DIAGRAMA DE BLOQUES
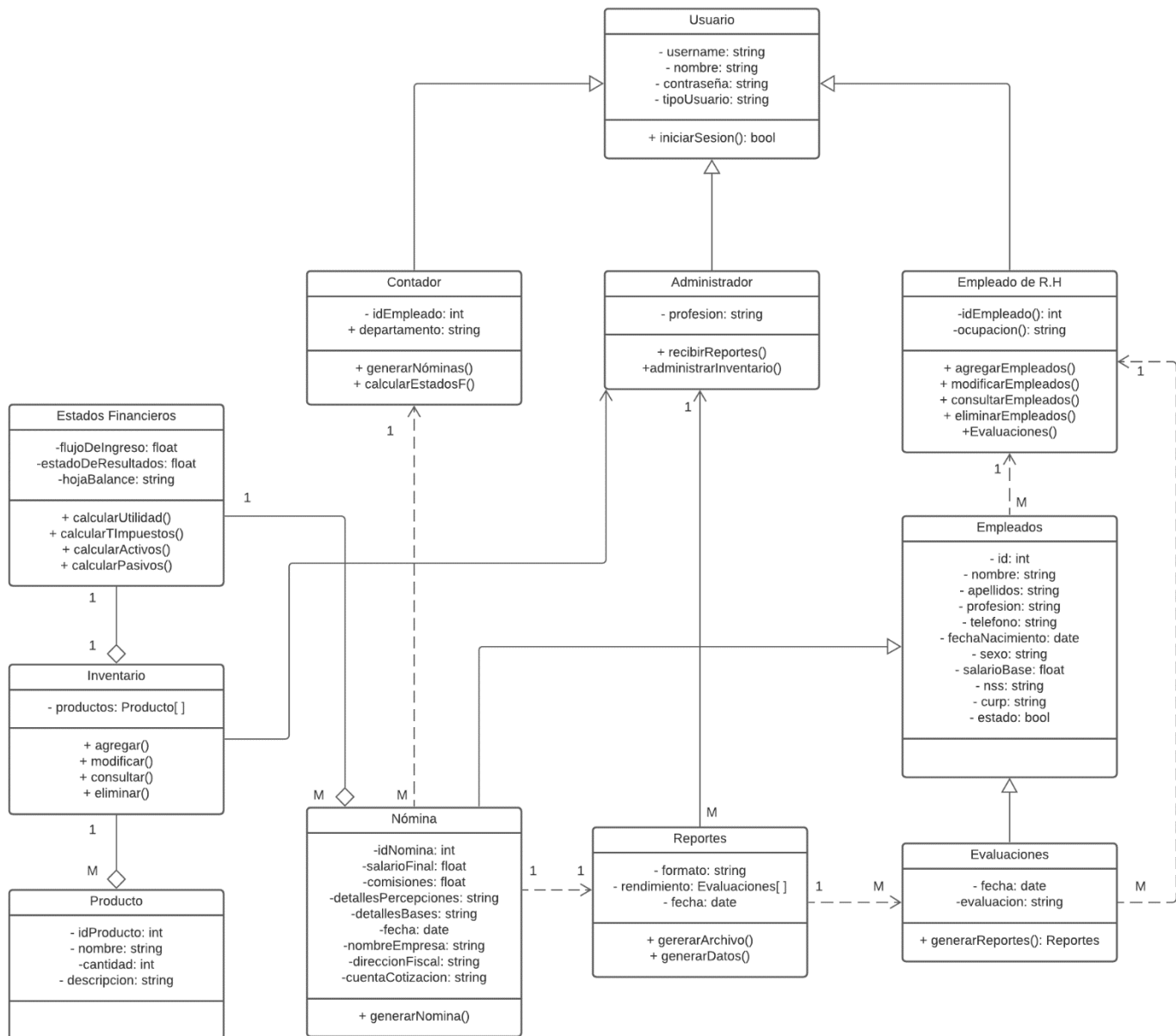MODELO VISTA-CONTROLADOR
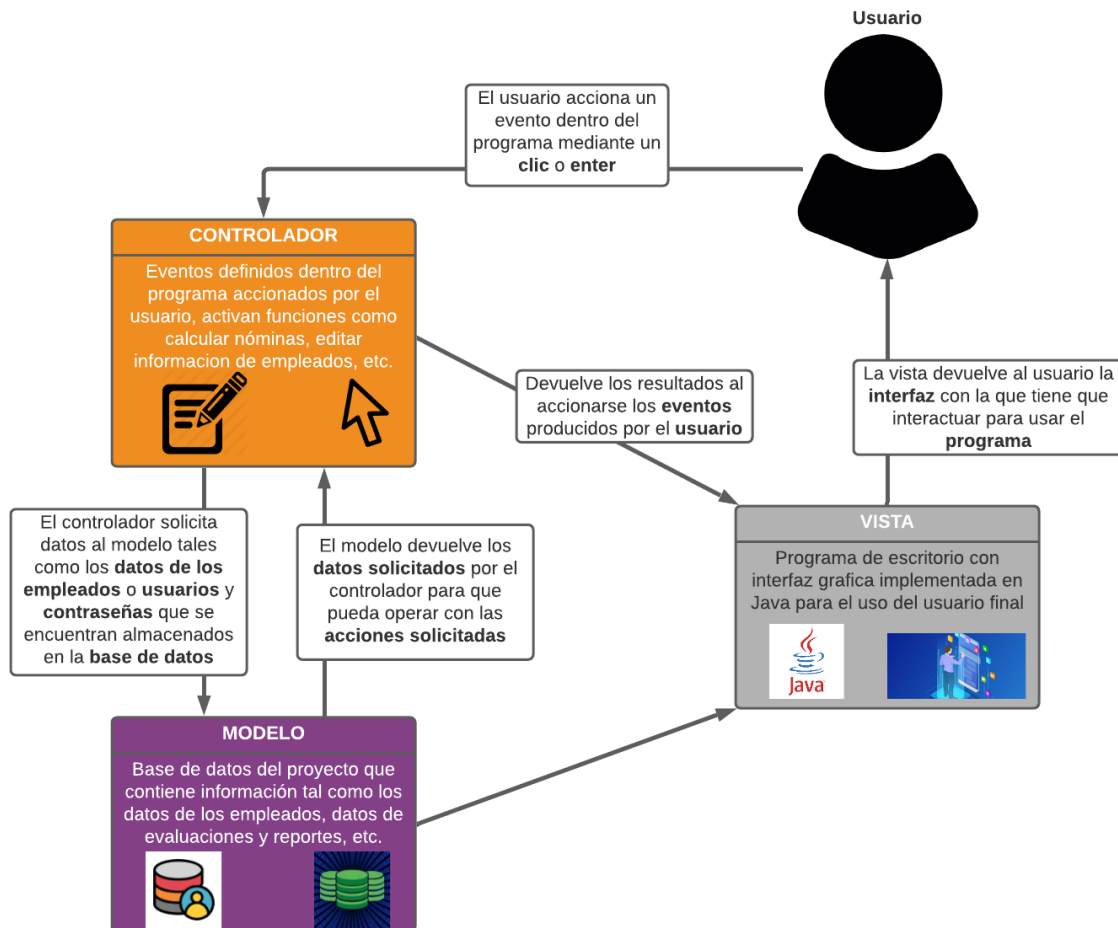
Diagrama de clases
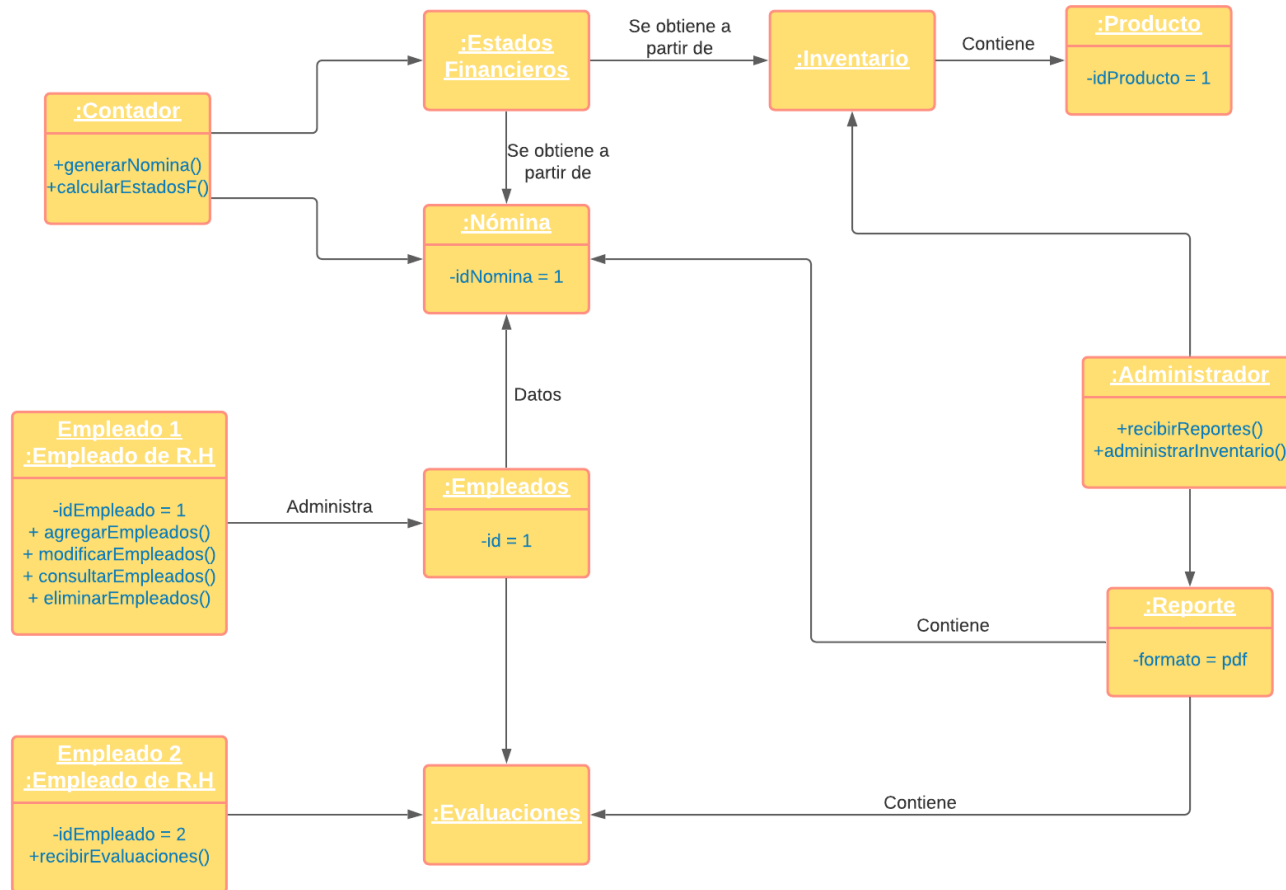
Diagrama de objetos

DIAGRAMA DE OBJETOS

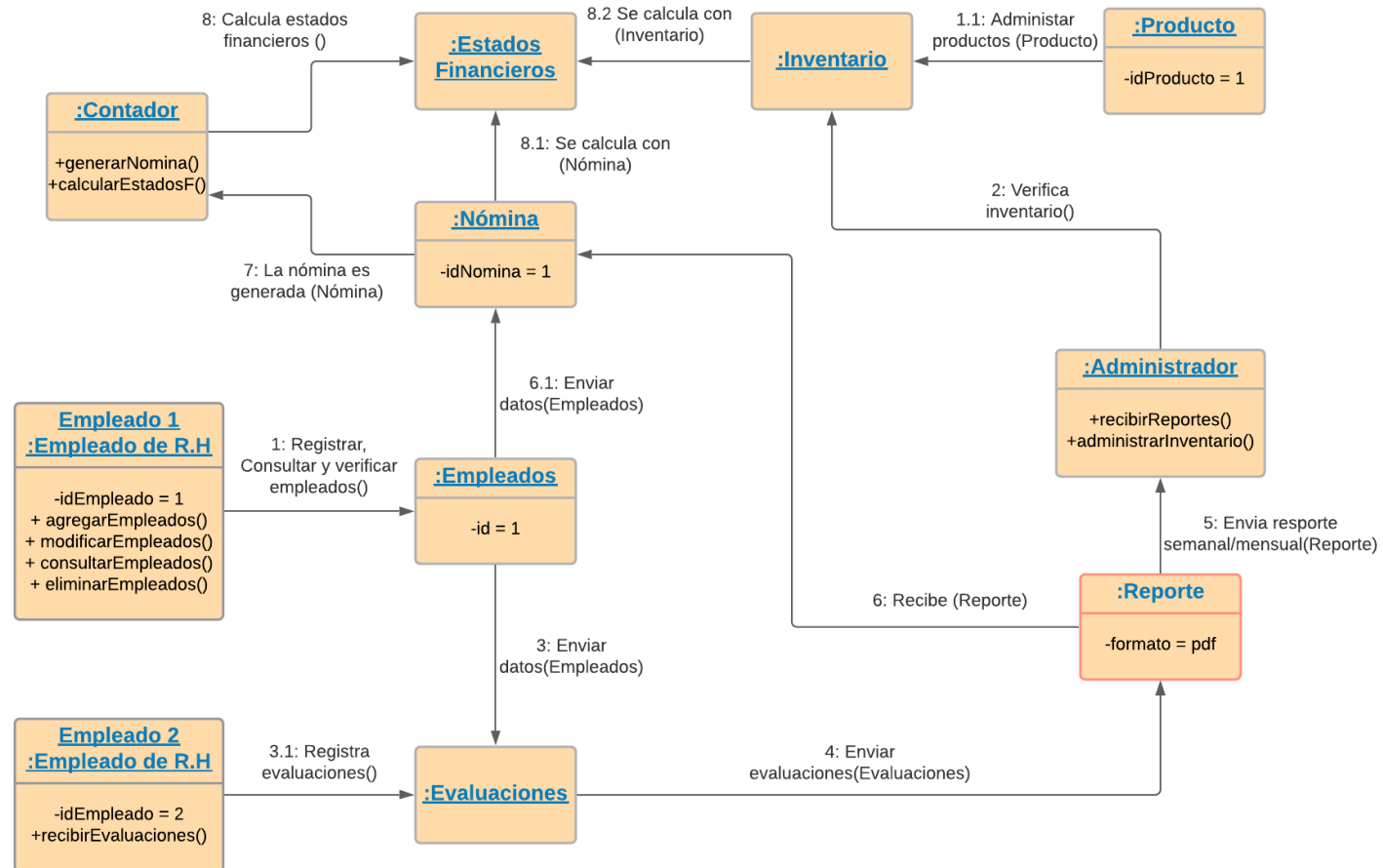**Diagrama de comunicaciones**

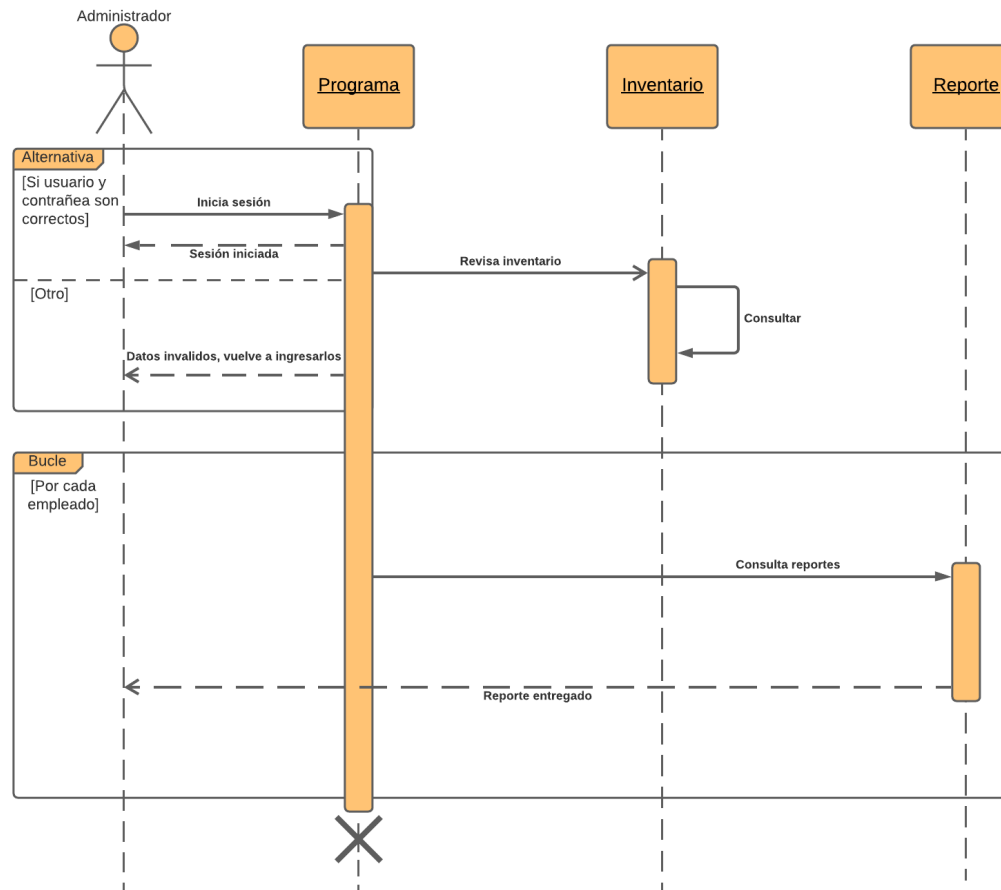# DIAGRAMA DE COMUNICACIÓN

Diagrama de secuencia (Administrador)

DIAGRAMA DE SECUENCIA
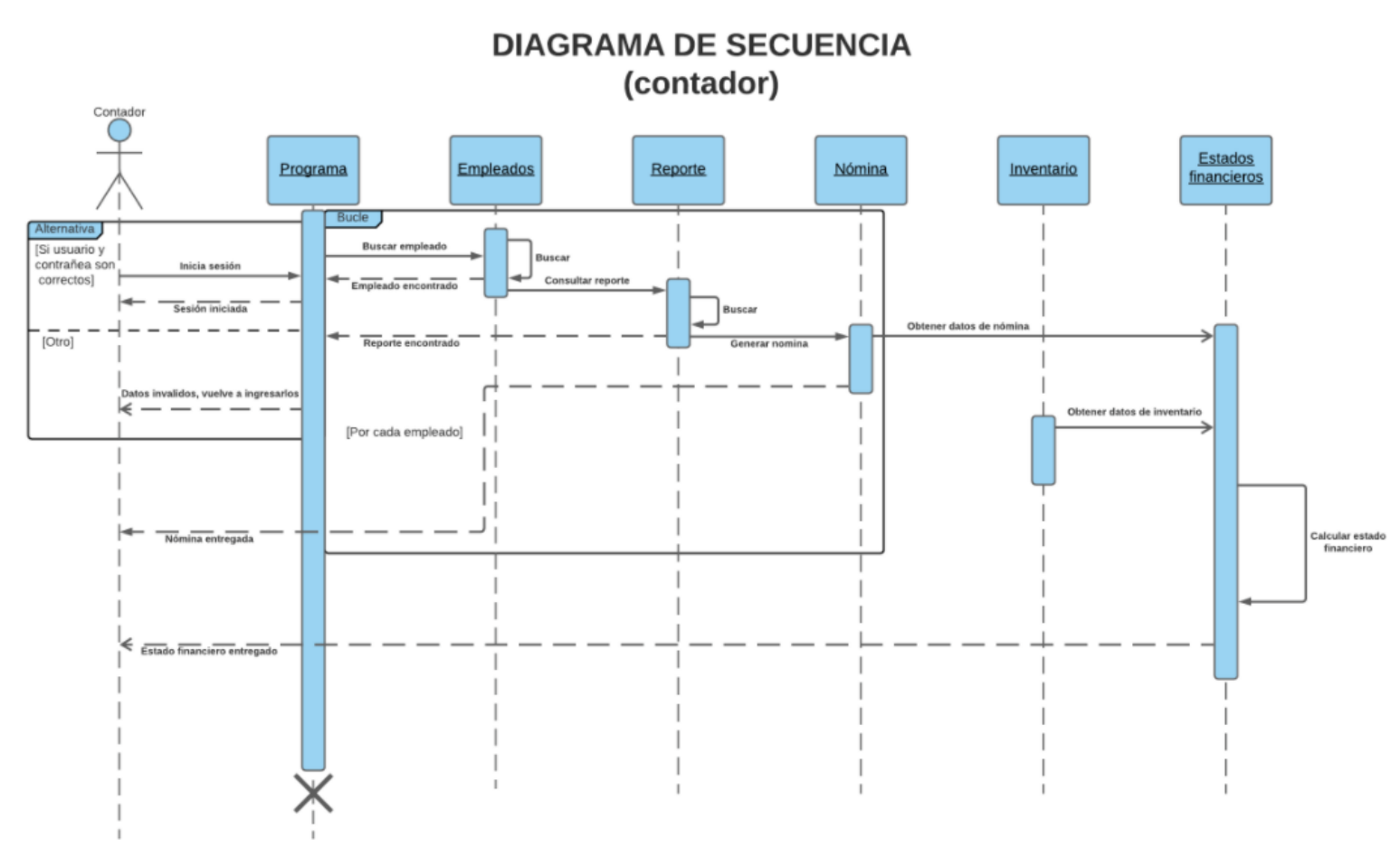## (administrador)

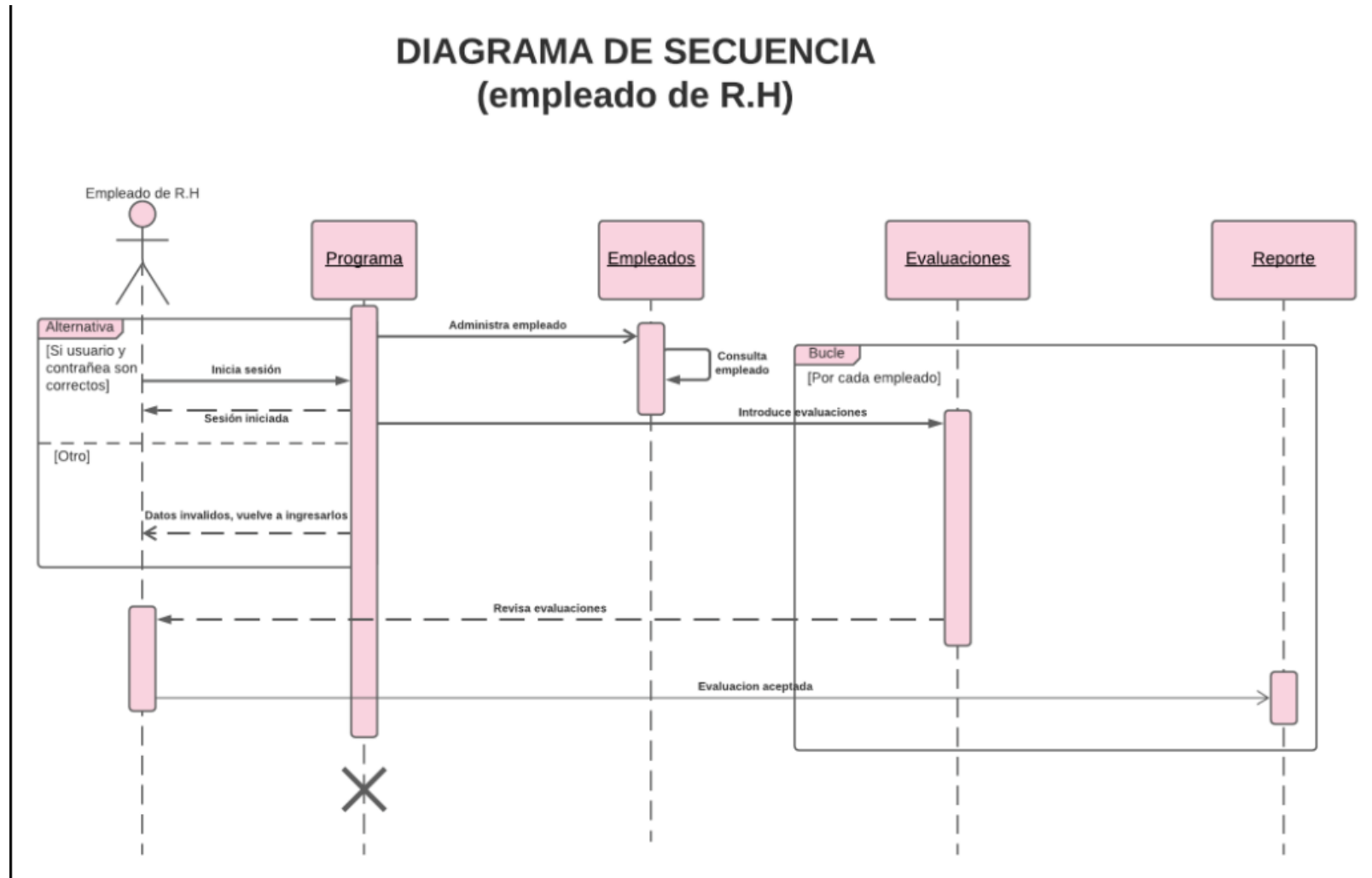## Diagrama de secuencia (Contador)

DIAGRAMA DE SECUENCIA
(contador)

Diagrama de secuencia (Recursos humanos)

DIAGRAMA DE SECUENCIA
(empleado de R.H)

Diagrama de componentes

DIAGRAMA DE COMPONENTES

Diagrama de actividades (Administrador)
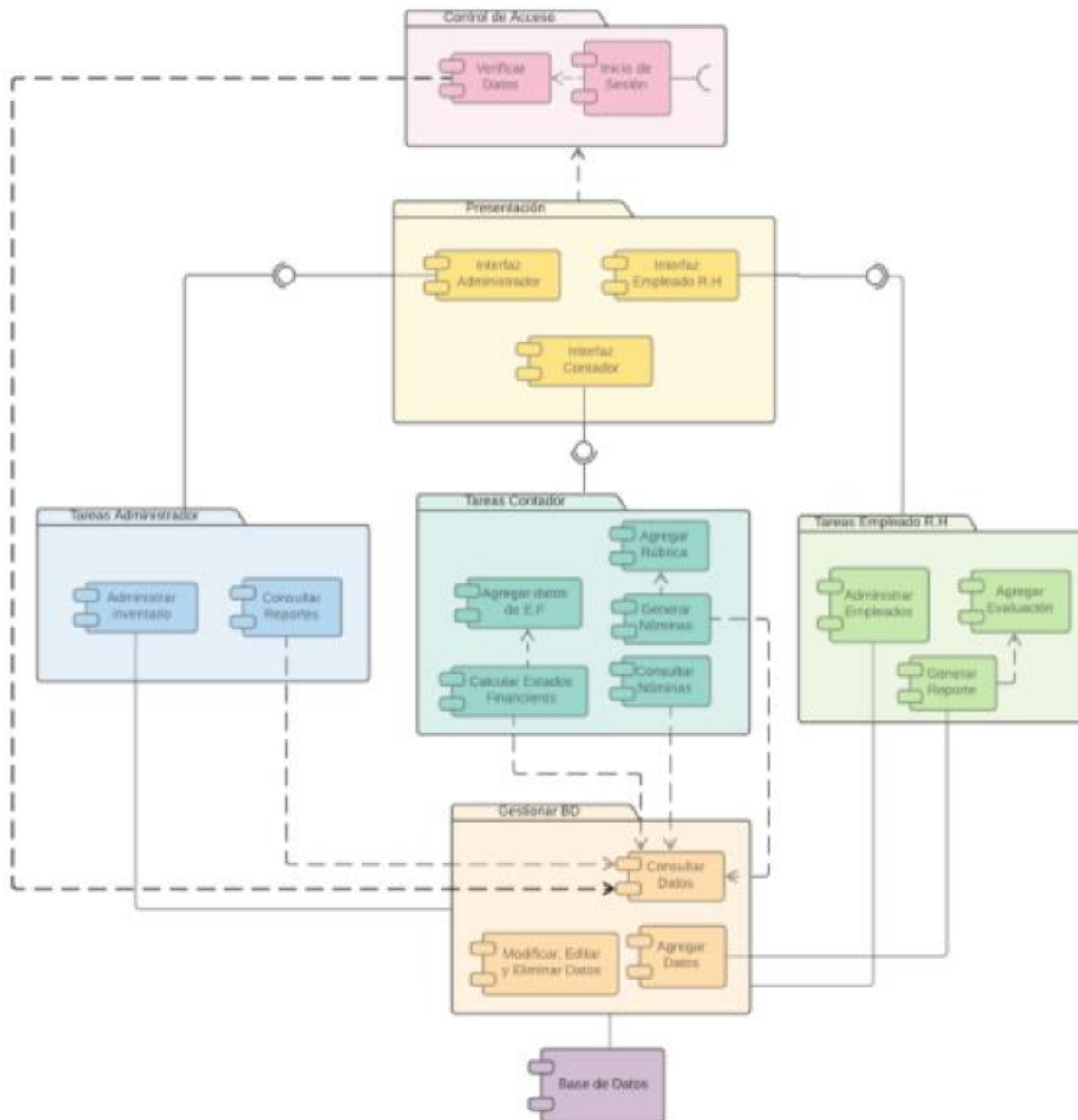
DIAGRAMA DE ACTIVIDADES
(Administrador)
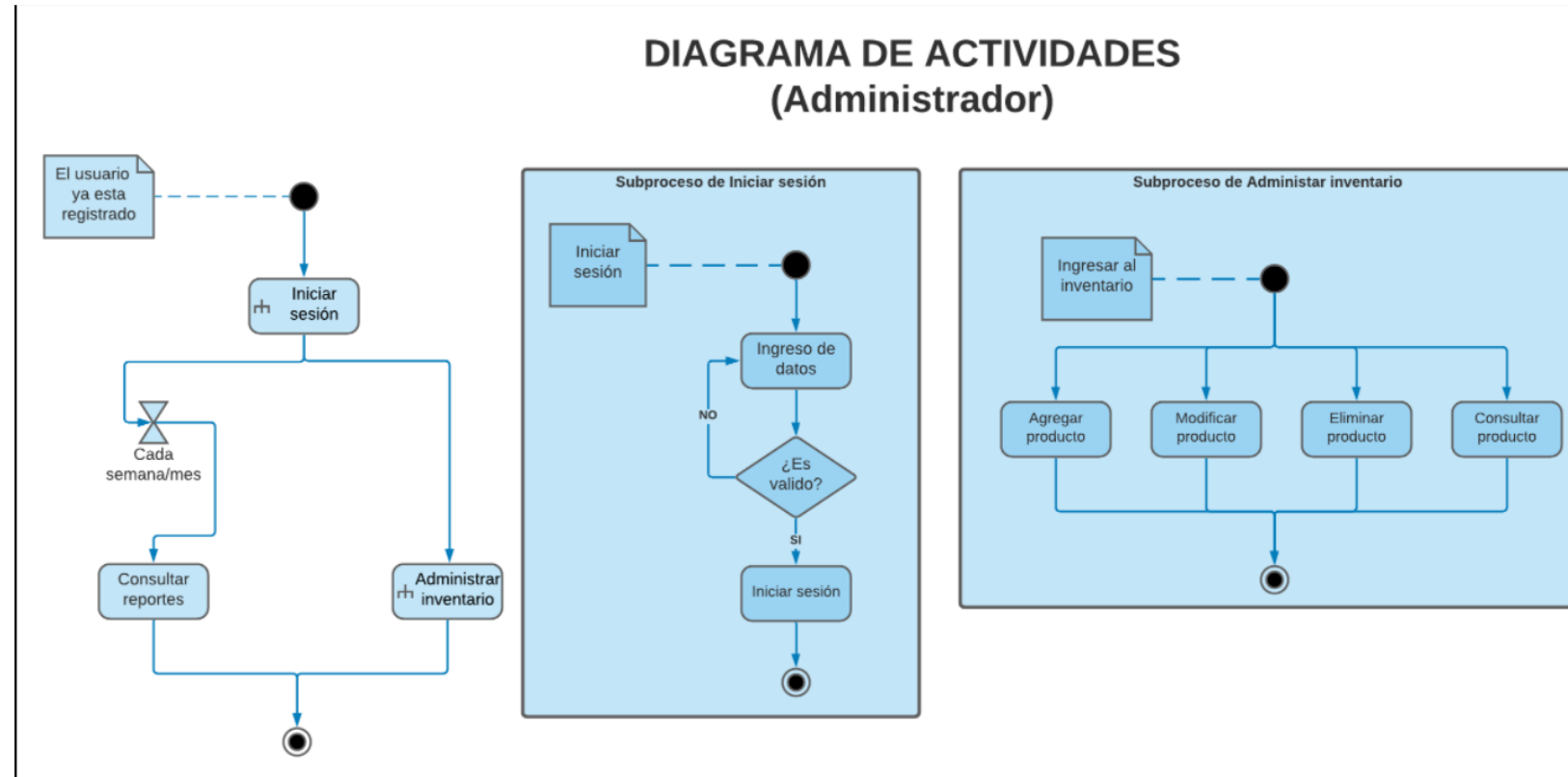
Diagrama de actividades (Contador)
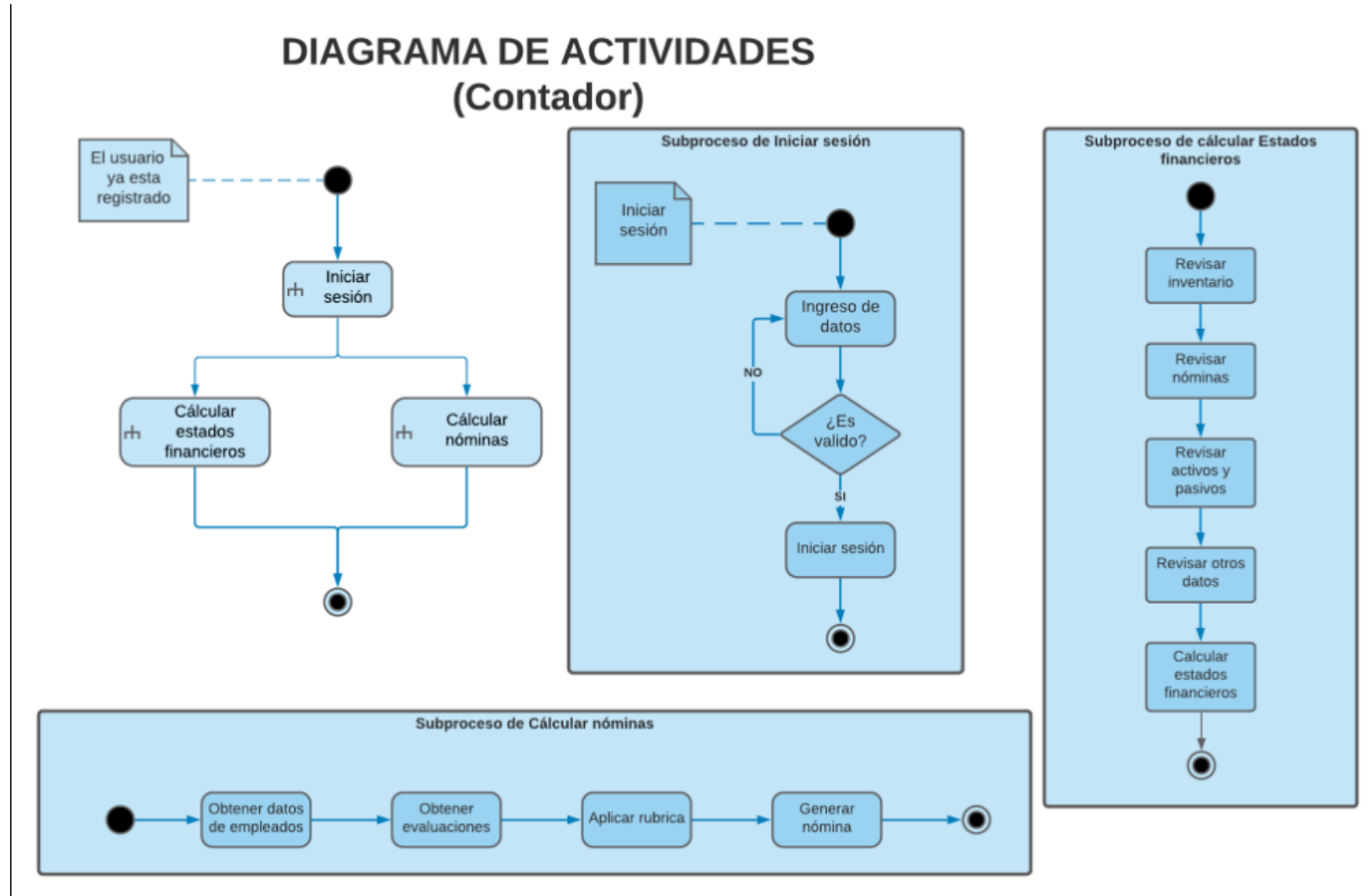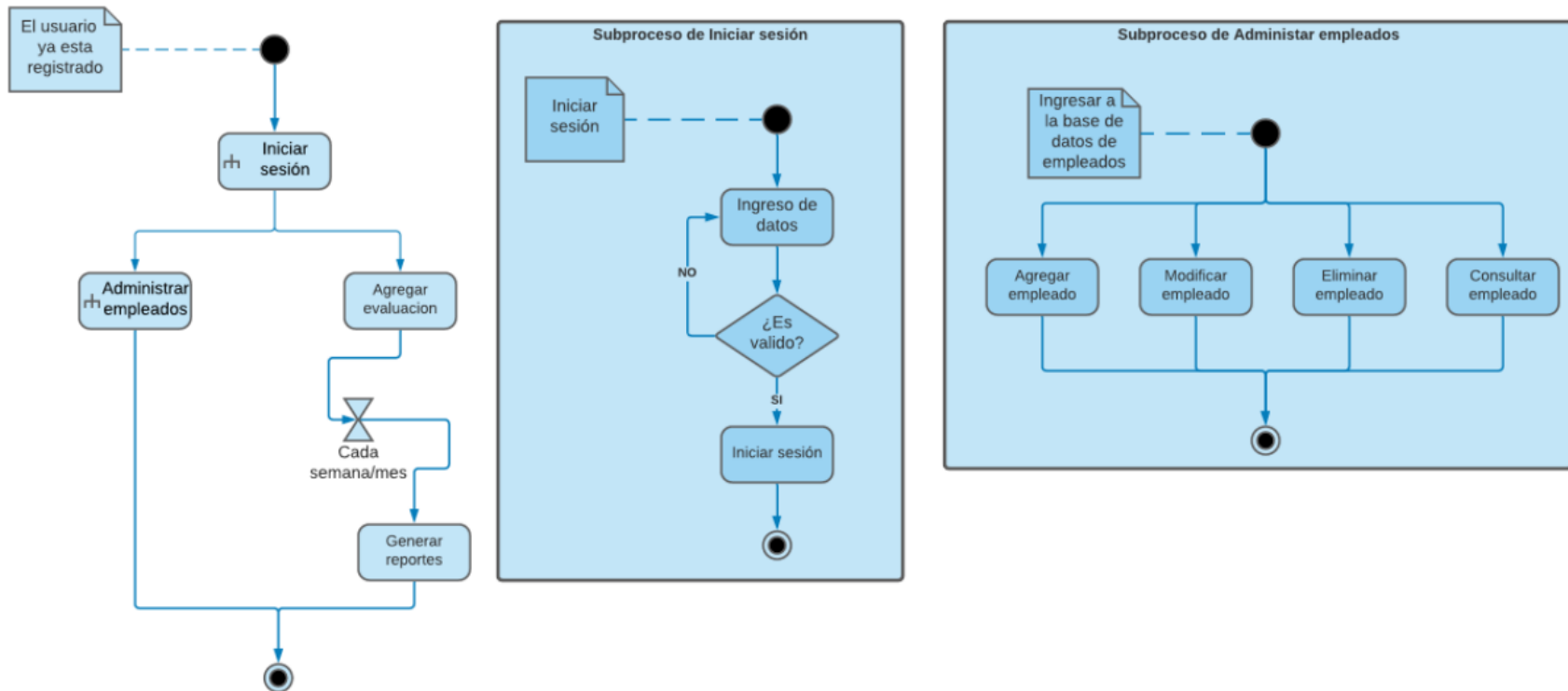
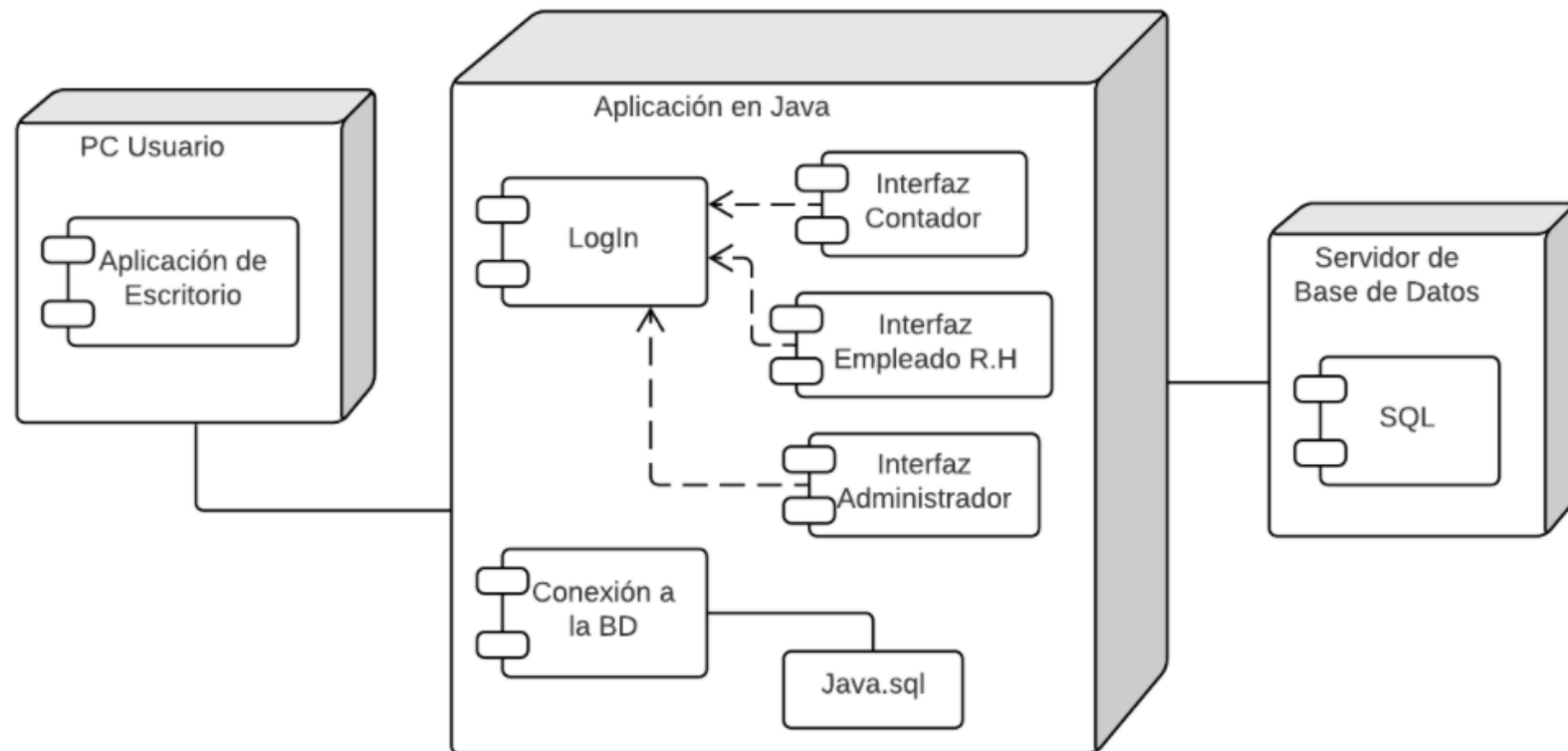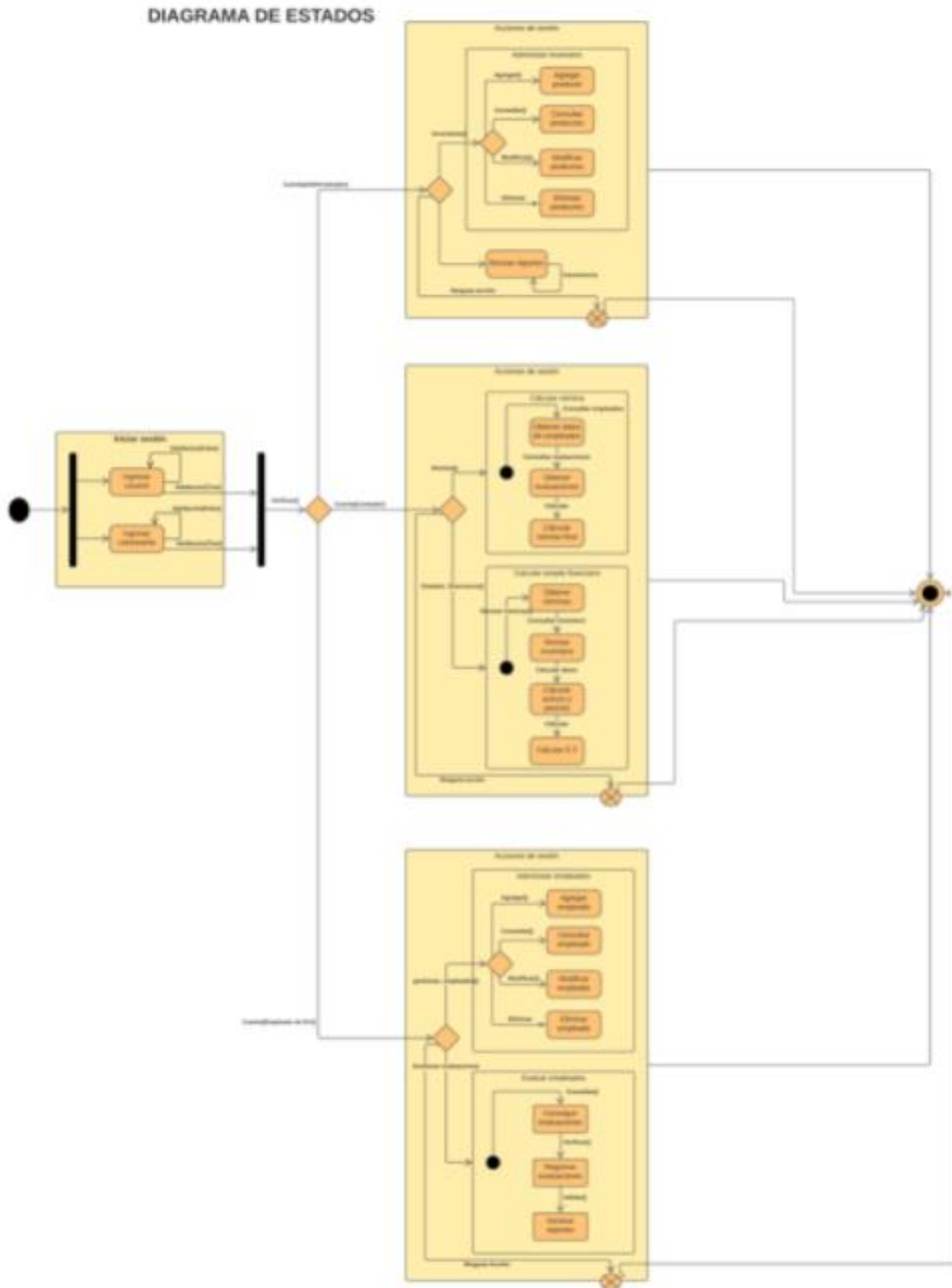## Diagrama de actividades (Recursos humanos)

DIAGRAMA DE ACTIVIDADES
(Empleado de R.H)

Diagrama de despliegue

DIAGRAMA DE DESPLIEGUE

Diagrama de estados

9. Desarrollo

El desarrollo se hizo a través de ventanas en Java, así que para une mejor comprensión el código se dividirá por estas ventanas

Ventana de Inicio de sesión (Interfaz)

```java
import java.awt.Color;

import java.awt.GraphicsDevice;

import java.awt.GraphicsEnvironment;

import java.awt.Image;

import javax.swing.ImageIcon;

import javax.swing.JFrame;

import javax.swing.JLabel;

import java.sql.*;

import javax.swing.JOptionPane;


/**
 * @authors Diana Zepeda & Kevin Limón
 */
public class Interfaz extends javax.swing.JFrame {

   int tipo = 0;


   public Interfaz() {

     initComponents();

     //Coneccion();


     GraphicsDevice                    Gd                    =
GraphicsEnvironment.getLocalGraphicsEnvironment().getDefaultScreenDevice();

     int width = Gd.getDisplayMode().getWidth();

     int height = Gd.getDisplayMode().getHeight();
```

```java
        this.setSize(width,height);

        Color azul = new Color(62, 95, 138); // Color azul

        this.getContentPane().setBackground(azul); //Cambiar color de fondo

        setExtendedState(MAXIMIZED_BOTH);
//this.setExtendedState(MAXIMIZED_BOTH); //Tamaño


        ImageIcon imagen1 = new ImageIcon("sistema baluarte.jpg");

        JLabel imginv = new JLabel(new ImageIcon("sistema baluarte.jpg"));

        imginv.setBounds(20,40,410,149);

        imginv.setIcon(new
ImageIcon(imagen1.getImage().getScaledInstance(410,149,
Image.SCALE_SMOOTH)));

        setIconImage(new
ImageIcon(getClass().getResource("Icon.jpeg")).getImage());

        this.add(imginv);

    }


    public void LogIn(){

        String BD = "jdbc:postgresql://localhost:5432/baluarte";

        String usuario = "postgres";

        String contra = "lumitylover";

        Connection conn = null;

        String user, pass;

        try {

            Class.forName("org.postgresql.Driver");

            conn = DriverManager.getConnection(BD, usuario, contra);

            java.sql.Statement st = conn.createStatement();


            String sql = "select * from usuario";

            ResultSet res = st.executeQuery(sql);
```

```java
        while(res.next()){

            user = res.getString("username");

            pass = res.getString("contrasena");

            if(user.equals(txtUsername.getText())                               &&
pass.equals(String.valueOf(txtPass.getPassword()))){

                tipo = Integer.parseInt(res.getString("tipo"));

            }

        }

        st.executeUpdate(sql);

        conn.close();

        st.close();


    } catch (Exception e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

}


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


    lSlbl = new javax.swing.JLabel();

    Usuario_lbl2 = new javax.swing.JLabel();

    Usuario_lbl3 = new javax.swing.JLabel();

    txtUsername = new javax.swing.JTextField();

    txtPass = new javax.swing.JPasswordField();

    btnInicioSesion = new javax.swing.JButton();

    btnInicioSesion1 = new javax.swing.JButton();
```

```java
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(255, 255, 255));


ISlbl.setFont(new java.awt.Font("Microsoft YaHei", 1, 36)); // NOI18N
ISlbl.setForeground(new java.awt.Color(255, 255, 255));
ISlbl.setText("INICIAR SESION");


Usuario_lbl2.setFont(new java.awt.Font("Microsoft YaHei", 1, 24)); // NOI18N
Usuario_lbl2.setForeground(new java.awt.Color(255, 255, 255));
Usuario_lbl2.setText("Contraseña");


Usuario_lbl3.setFont(new java.awt.Font("Microsoft YaHei", 1, 24)); // NOI18N
Usuario_lbl3.setForeground(new java.awt.Color(255, 255, 255));
Usuario_lbl3.setText("Username");


txtUsername.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N


txtPass.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N


btnInicioSesion.setBackground(new java.awt.Color(202, 223, 251));
btnInicioSesion.setFont(new  java.awt.Font("Microsoft  YaHei",  0,  18));  // NOI18N
btnInicioSesion.setForeground(new java.awt.Color(25, 55, 87));
btnInicioSesion.setText("Iniciar Sesion");
btnInicioSesion.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnInicioSesionActionPerformed(evt);
    }
```

```java
    });


    btnInicioSesion1.setBackground(new java.awt.Color(202, 223, 251));

    btnInicioSesion1.setFont(new   java.awt.Font("Microsoft   YaHei",   0,   18));   //
NOI18N

    btnInicioSesion1.setForeground(new java.awt.Color(25, 55, 87));

    btnInicioSesion1.setText("Iniciar Sesion");

    btnInicioSesion1.addActionListener(new java.awt.event.ActionListener() {

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

            btnInicioSesion1ActionPerformed(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()


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

            .addGroup(layout.createSequentialGroup()

                .addGap(520, 520, 520)

                .addComponent(lSlbl,
javax.swing.GroupLayout.PREFERRED_SIZE,                            320,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGroup(layout.createSequentialGroup()

                .addGap(490, 490, 490)
```

```
            .addComponent(Usuario_lbl3,
javax.swing.GroupLayout.PREFERRED_SIZE,                    150,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createSequentialGroup()

        .addGap(490, 490, 490)

            .addComponent(txtUsername,
javax.swing.GroupLayout.PREFERRED_SIZE,                    350,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createSequentialGroup()

        .addGap(490, 490, 490)

            .addComponent(Usuario_lbl2,
javax.swing.GroupLayout.PREFERRED_SIZE,                    200,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createSequentialGroup()

        .addGap(490, 490, 490)

            .addComponent(txtPass,
javax.swing.GroupLayout.PREFERRED_SIZE,                    350,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createSequentialGroup()

        .addGap(580, 580, 580)


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

                .addComponent(btnInicioSesion,
javax.swing.GroupLayout.PREFERRED_SIZE,                    160,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addComponent(btnInicioSesion1,
javax.swing.GroupLayout.PREFERRED_SIZE,                    160,
javax.swing.GroupLayout.PREFERRED_SIZE))))
        .addContainerGap(526, Short.MAX_VALUE))

    );

    layout.setVerticalGroup(

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
.addGroup(layout.createSequentialGroup()

    .addGap(130, 130, 130)

    .addComponent(ISlbl, javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGap(46, 46, 46)

    .addComponent(Usuario_lbl3,
javax.swing.GroupLayout.PREFERRED_SIZE,                    50,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGap(10, 10, 10)

    .addComponent(txtUsername,
javax.swing.GroupLayout.PREFERRED_SIZE,                    50,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGap(10, 10, 10)

    .addComponent(Usuario_lbl2,
javax.swing.GroupLayout.PREFERRED_SIZE,                    60,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGap(0, 0, 0)

    .addComponent(txtPass,   javax.swing.GroupLayout.PREFERRED_SIZE,
50, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGap(50, 50, 50)


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

        .addComponent(btnInicioSesion,
javax.swing.GroupLayout.PREFERRED_SIZE,                    50,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(btnInicioSesion1,
javax.swing.GroupLayout.PREFERRED_SIZE,                    50,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(100, 100, 100))
);


pack();
```

```
}// </editor-fold>


private void btnInicioSesionActionPerformed(java.awt.event.ActionEvent evt) {
    String valorPass = new String(txtPass.getPassword());
    if(txtUsername.getText().isEmpty() || valorPass.isEmpty()){
        JOptionPane.showMessageDialog(null, "Ningun campo puede quedar vacio");
    }else{
        LogIn();
        switch(tipo){
            case 0:
                JOptionPane.showMessageDialog(null, "Username o Contraseña incorrecta");
                txtUsername.setText(null);
                txtPass.setText(null);
                break;
            case 1:
                Administrador ven=new Administrador();
                ven.setVisible(true);
                dispose();
                break;
            case 2:
                Contador cont=new Contador();
                cont.setVisible(true);
                dispose();
                break;
            case 3:
                RecursosHumanos rh=new RecursosHumanos();
                rh.setVisible(true);
```

```
        dispose();

        break;

    }

  }

}
```

Ventana de Administrador (Interfaz)

```java
import java.awt.Color;

import java.awt.GraphicsDevice;

import java.awt.GraphicsEnvironment;

import java.awt.Image;

import javax.swing.ImageIcon;

import javax.swing.JLabel;


/**

 * @authors Diana Zepeda & Kevin Limón

 */

public class Administrador extends javax.swing.JFrame {


  public Administrador() {

    setIconImage(new
ImageIcon(getClass().getResource("Icon.jpeg")).getImage());

    Color azul = new Color(106, 156, 222); // Color azul

    this.getContentPane().setBackground(azul);

    /**Panel1.setBackground(azul); */

    initComponents();

    GraphicsDevice                      Gd                      =
GraphicsEnvironment.getLocalGraphicsEnvironment().getDefaultScreenDevice();

    int width = Gd.getDisplayMode().getWidth();
```

```java
    int height = Gd.getDisplayMode().getHeight();

    this.setSize(width,height);

    setExtendedState(MAXIMIZED_BOTH);


    ImageIcon imagen1 = new ImageIcon("Inventario.png");

    JLabel imginv = new JLabel(new ImageIcon("Inventario.png"));

    imginv.setBounds(240,210,200,200);

    imginv.setIcon(new
ImageIcon(imagen1.getImage().getScaledInstance(200,200,
Image.SCALE_SMOOTH)));

    Panel1.add(imginv);


    ImageIcon imagen2 = new ImageIcon("Reporte.png");

    JLabel imgrep = new JLabel(new ImageIcon("Reporte.png"));

    imgrep.setBounds(940,210,200,200);

    imgrep.setIcon(new
ImageIcon(imagen2.getImage().getScaledInstance(200,200,
Image.SCALE_SMOOTH)));

    this.add(imgrep);


  }


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


    Panel1 = new javax.swing.JPanel();

    Invent = new javax.swing.JButton();

    label1 = new javax.swing.JLabel();

    label2 = new javax.swing.JLabel();
```

```java
Report = new javax.swing.JButton();

jButton1 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


Panel1.setBackground(new java.awt.Color(87, 131, 188));


Invent.setBackground(new java.awt.Color(202, 223, 251));

Invent.setFont(new java.awt.Font("Microsoft YaHei", 0, 36)); // NOI18N

Invent.setForeground(new java.awt.Color(25, 55, 87));

Invent.setText("Inventario");

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

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

        InventActionPerformed(evt);

    }

});


label1.setFont(new java.awt.Font("Microsoft JhengHei", 1, 48)); // NOI18N

label1.setForeground(new java.awt.Color(255, 255, 255));

label1.setText(" VER INVENTARIO");


javax.swing.GroupLayout        Panel1Layout        =        new
javax.swing.GroupLayout(Panel1);

Panel1.setLayout(Panel1Layout);

Panel1Layout.setHorizontalGroup(

Panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(Panel1Layout.createSequentialGroup()

        .addGap(140, 140, 140)
```

```
        .addComponent(label1,     javax.swing.GroupLayout.PREFERRED_SIZE,
430, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(118, Short.MAX_VALUE))

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
Panel1Layout.createSequentialGroup()

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addComponent(Invent,     javax.swing.GroupLayout.PREFERRED_SIZE,
265, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(205, 205, 205))

    );

    Panel1Layout.setVerticalGroup(


Panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(Panel1Layout.createSequentialGroup()

        .addGap(80, 80, 80)

        .addComponent(label1,     javax.swing.GroupLayout.PREFERRED_SIZE,
50, javax.swing.GroupLayout.PREFERRED_SIZE)


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(Invent,     javax.swing.GroupLayout.PREFERRED_SIZE,
69, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(143, 143, 143))

    );


    label2.setFont(new java.awt.Font("Microsoft JhengHei", 1, 48)); // NOI18N

    label2.setForeground(new java.awt.Color(255, 255, 255));

    label2.setText("VER REPORTES");

    label2.setPreferredSize(new java.awt.Dimension(347, 53));
```

```java
Report.setBackground(new java.awt.Color(202, 223, 251));

Report.setFont(new java.awt.Font("Microsoft YaHei", 0, 36)); // NOI18N

Report.setForeground(new java.awt.Color(25, 55, 87));

Report.setText("Reportes");

Report.setPreferredSize(new java.awt.Dimension(207, 357));

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

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

        ReportActionPerformed(evt);

    }

});


jButton1.setBackground(new java.awt.Color(202, 223, 251));

jButton1.setFont(new java.awt.Font("Microsoft YaHei UI", 0, 15)); // NOI18N

jButton1.setForeground(new java.awt.Color(25, 55, 87));

jButton1.setText("Cerrar sesión");

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()

        .addComponent(Panel1,        javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

            .addGroup(layout.createSequentialGroup()

                .addGap(176, 176, 176)

                .addComponent(label2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addGap(155, 155, 155))

            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

                        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE,                              130,
javax.swing.GroupLayout.PREFERRED_SIZE)

                        .addContainerGap())

                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

                        .addComponent(Report,
javax.swing.GroupLayout.PREFERRED_SIZE,                              265,
javax.swing.GroupLayout.PREFERRED_SIZE)

                        .addGap(204, 204, 204))))))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(81, 81, 81)
```

```
            .addComponent(label2,    javax.swing.GroupLayout.PREFERRED_SIZE,
52, javax.swing.GroupLayout.PREFERRED_SIZE)


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  375,
Short.MAX_VALUE)
            .addComponent(Report,   javax.swing.GroupLayout.PREFERRED_SIZE,
69, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(93, 93, 93)

            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
44, javax.swing.GroupLayout.PREFERRED_SIZE)

            .addContainerGap())

        .addComponent(Panel1,         javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    );


    pack();

}// </editor-fold>


private void InventActionPerformed(java.awt.event.ActionEvent evt) {

    Inventario ven=new Inventario();

    ven.setVisible(true);

    dispose();

}


private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    Interfaz ven=new Interfaz();

    ven.setVisible(true);

    dispose();

}
```

```java
private void ReportActionPerformed(java.awt.event.ActionEvent evt) {

    Reportes ven=new Reportes();

    ven.setVisible(true);

    dispose();

}


/**

 * @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(Administrador.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Administrador.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Administrador.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Administrador.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
    }
    //</editor-fold>


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


  // Variables declaration - do not modify
  private javax.swing.JButton Invent;
  private javax.swing.JPanel Panel1;
  private javax.swing.JButton Report;
  private javax.swing.JButton jButton1;
  private javax.swing.JLabel label1;
  private javax.swing.JLabel label2;
```

```java
    // End of variables declaration


    private void setSize(double width, double height) {

        throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.

    }
}
```

Ventana de Contador (Interfaz)

```java
import java.awt.Color;

import java.awt.GraphicsDevice;

import java.awt.GraphicsEnvironment;

import java.awt.Image;

import javax.swing.ImageIcon;

import javax.swing.JLabel;


/**
 * @authors Diana Zepeda & Kevin Limón
 */
public class Contador extends javax.swing.JFrame {



    public Contador() {

        initComponents();

        setIconImage(new ImageIcon(getClass().getResource("Icon.jpeg")).getImage());

        GraphicsDevice                         Gd                         = GraphicsEnvironment.getLocalGraphicsEnvironment().getDefaultScreenDevice();

        int width = Gd.getDisplayMode().getWidth();
```

```java
    int height = Gd.getDisplayMode().getHeight();

    this.setSize(width,height);

    Color azul = new Color(106, 156, 222); // Color azul

    this.getContentPane().setBackground(azul);

    setExtendedState(MAXIMIZED_BOTH);


    ImageIcon imagen1 = new ImageIcon("nomina.png");

    JLabel imginv = new JLabel(new ImageIcon("nomina.png"));

    imginv.setBounds(240,210,200,200);

    imginv.setIcon(new
ImageIcon(imagen1.getImage().getScaledInstance(200,200,
Image.SCALE_SMOOTH)));

    Panel1.add(imginv);


    ImageIcon imagen2 = new ImageIcon("Estado.png");

    JLabel imgrep = new JLabel(new ImageIcon("Estado.png"));

    imgrep.setBounds(940,210,200,200);

    imgrep.setIcon(new
ImageIcon(imagen2.getImage().getScaledInstance(200,200,
Image.SCALE_SMOOTH)));

    this.add(imgrep);
  }


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


    Panel1 = new javax.swing.JPanel();

    Invent = new javax.swing.JButton();

    jLabel1 = new javax.swing.JLabel();
```

```java
jLabel2 = new javax.swing.JLabel();

Invent1 = new javax.swing.JButton();

jButton1 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


Panel1.setBackground(new java.awt.Color(87, 131, 188));


Invent.setBackground(new java.awt.Color(202, 223, 251));

Invent.setFont(new java.awt.Font("Microsoft YaHei", 0, 36)); // NOI18N

Invent.setForeground(new java.awt.Color(25, 55, 87));

Invent.setText("Nómina");

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

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

      InventActionPerformed(evt);

   }

});


jLabel1.setFont(new java.awt.Font("Microsoft JhengHei", 1, 48)); // NOI18N

jLabel1.setForeground(new java.awt.Color(255, 255, 255));

jLabel1.setText(" HACER NÓMINAS");


   javax.swing.GroupLayout          Panel1Layout          =          new
javax.swing.GroupLayout(Panel1);

Panel1.setLayout(Panel1Layout);

Panel1Layout.setHorizontalGroup(

Panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

      .addGroup(Panel1Layout.createSequentialGroup()
```

```
        .addGap(111, 111, 111)

        .addComponent(jLabel1,   javax.swing.GroupLayout.PREFERRED_SIZE,
449, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(123, Short.MAX_VALUE))

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
Panel1Layout.createSequentialGroup()

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addComponent(Invent,    javax.swing.GroupLayout.PREFERRED_SIZE,
265, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(206, 206, 206))
    );

    Panel1Layout.setVerticalGroup(

Panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
Panel1Layout.createSequentialGroup()

        .addGap(80, 80, 80)

        .addComponent(jLabel1,   javax.swing.GroupLayout.PREFERRED_SIZE,
53, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(Invent,    javax.swing.GroupLayout.PREFERRED_SIZE,
69, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(146, 146, 146))
    );


    jLabel2.setFont(new java.awt.Font("Microsoft JhengHei", 1, 48)); // NOI18N

    jLabel2.setForeground(new java.awt.Color(255, 255, 255));

    jLabel2.setText("<html>CALCULAR                            ESTADOS
<center>FINANCIEROS</center></html>");
```

```java
Invent1.setBackground(new java.awt.Color(202, 223, 251));

Invent1.setFont(new java.awt.Font("Microsoft YaHei", 0, 36)); // NOI18N

Invent1.setForeground(new java.awt.Color(25, 55, 87));

Invent1.setText("Estados financieros");

Invent1.addActionListener(new java.awt.event.ActionListener() {

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

        Invent1ActionPerformed(evt);

    }

});


jButton1.setBackground(new java.awt.Color(202, 223, 251));

jButton1.setFont(new java.awt.Font("Microsoft YaHei UI", 0, 15)); // NOI18N

jButton1.setForeground(new java.awt.Color(25, 55, 87));

jButton1.setText("Cerrar sesión");

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()
```

```
        .addComponent(Panel1,   javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILI
NG)

            .addGroup(layout.createSequentialGroup()

              .addComponent(Invent1)

              .addGap(154, 154, 154))

            .addGroup(layout.createSequentialGroup()

              .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE,                           130,
javax.swing.GroupLayout.PREFERRED_SIZE)

              .addContainerGap())

            .addGroup(layout.createSequentialGroup()

              .addComponent(jLabel2,
javax.swing.GroupLayout.PREFERRED_SIZE,                           537,
javax.swing.GroupLayout.PREFERRED_SIZE)

              .addGap(26, 26, 26))))
    );
    layout.setVerticalGroup(

      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

      .addGroup(layout.createSequentialGroup()

        .addGap(66, 66, 66)

        .addComponent(jLabel2,   javax.swing.GroupLayout.PREFERRED_SIZE,
132, javax.swing.GroupLayout.PREFERRED_SIZE)


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  315,
Short.MAX_VALUE)
```

```
        .addComponent(Invent1,   javax.swing.GroupLayout.PREFERRED_SIZE,
76, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(81, 81, 81)

        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
44, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap())

    .addComponent(Panel1,        javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    );


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


private void InventActionPerformed(java.awt.event.ActionEvent evt) {

    Nomina1 ven=new Nomina1();

    ven.setVisible(true);

    dispose();

}


private void Invent1ActionPerformed(java.awt.event.ActionEvent evt) {

    EstadoFinanciero ven=new EstadoFinanciero();

    ven.setVisible(true);

    dispose();

}


private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    Interfaz ven=new Interfaz();

    ven.setVisible(true);

    dispose();
```

```java
    }


    /**
     * @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(Contador.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Contador.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
```

```java
java.util.logging.Logger.getLogger(Contador.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Contador.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 Contador().setVisible(true);
       }
    });
}


// Variables declaration - do not modify
private javax.swing.JButton Invent;
private javax.swing.JButton Invent1;
private javax.swing.JPanel Panel1;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
// End of variables declaration
}
```

Ventana de Administrador (Interfaz)

```java
import java.awt.Color;
```

```java
import java.awt.GraphicsDevice;

import java.awt.GraphicsEnvironment;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.ArrayList;

import java.util.Date;

import javax.swing.ImageIcon;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;


/**
 * @authors Diana Zepeda & Kevin Limón
 */
public class Empleado extends javax.swing.JFrame {



    public Empleado() {

        initComponents();

        setIconImage(new
ImageIcon(getClass().getResource("Icon.jpeg")).getImage());

        GraphicsDevice                    Gd                          =
GraphicsEnvironment.getLocalGraphicsEnvironment().getDefaultScreenDevice();

        int width = Gd.getDisplayMode().getWidth();

        int height = Gd.getDisplayMode().getHeight();

        this.setSize(width,height);

        Color azul = new Color(62, 95, 138); // Color azul
```

```java
    this.getContentPane().setBackground(azul); //Cambiar color de fondo

    setExtendedState(MAXIMIZED_BOTH);


    InsertarEmpleadosT();
}


public void GuardarEmpleado(){
    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    String activo;

    try {
        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();

        if(cbActivo.isSelected()){

            activo = "true";

        }else{

            activo = "false";

        }

         SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");

        String sql = "insert into empleado (nombre, profesion, telefono, fechanac, domicilio, salariod, curp, estado, nss, cuentacot)"

                + "values('" + txtNombreE.getText() + "','" + txtProfesionE.getText() +
"','" + txtTel.getText() + "','" + sdf.format(jdFechaNac.getDate())

                + "','" + txtDom.getText() + "'," + txtSalD.getText() + ",'" +
txtCURP.getText() + "'," + activo + ",'" + txtNSS.getText() + "','"

                + txtCuentaCot.getText() + "')";
```

```java
        ResultSet result = st.executeQuery(sql);

        st.executeUpdate(sql);

        conn.close();

        st.close();


    } catch (Exception e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

    JOptionPane.showMessageDialog(null, "Se ha guardado con exito");

}


public void ActualizarEmpledo(){

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    String activo;

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();

        if(cbActivo.isSelected()){

            activo = "true";

        }else{

            activo = "false";

        }

        SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");

        String sql = "update empleado set nombre='" + txtNombreE.getText() +
"',profesion='" + txtProfesionE.getText() + "',telefono='" +
```

```
                txtTel.getText() + "', fechanac='" + sdf.format(jdFechaNac.getDate()) +
"',domicilio='" + txtDom.getText() + "', salariod=" +

                txtSalD.getText() + ",curp='" + txtCURP.getText() + "', estado=" + activo
+ ",nss='" + txtNSS.getText() + "',cuentacot='" +

                txtCuentaCot.getText() + "' where id_empleado=" + txtIDE.getText();

        st.executeQuery(sql);

        st.executeUpdate(sql);

        conn.close();

        st.close();


    } catch (Exception e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

    JOptionPane.showMessageDialog(null, "Se ha actualizado con exito");

}


public void InsertarEmpleadosT(){

    DefaultTableModel modelo = (DefaultTableModel) jTableE.getModel();

    //modelo.setAutoResizeMode(jTableE.AUTO_RESIZE_OFF);

    String datos[] =  new String[11];

    ArrayList<String> ListID = new ArrayList();

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        //JOptionPane.showMessageDialog(null, "BD conectada con exito");
```

```
java.sql.Statement st = conn.createStatement();


String sql = "select * from empleado";
ResultSet res = st.executeQuery(sql);


while(res.next()){
    datos[0] = res.getString("id_empleado");
    datos[1] = res.getString("nombre");
    datos[2] = res.getString("curp");
    datos[3] = res.getString("profesion");
    datos[4] = res.getString("cuentaCot");
    datos[5] = res.getString("fechaNac");
    datos[6] = res.getString("nss");
    datos[7] = res.getString("domicilio");
    datos[8] = res.getString("telefono");
    datos[9] = res.getString("salariod");
    if(res.getString("estado").equals("t")){
        datos[10] = "activo";
    }else{
        datos[10] = "no activo";
    }
    modelo.addRow(datos);
}


st.executeUpdate(sql);
conn.close();
st.close();
```

```java
        } catch (Exception e) {

            //JOptionPane.showMessageDialog(null, "Error " + e);

        }


    }



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


        btnNuevoE = new javax.swing.JButton();

        btnGuardarE = new javax.swing.JButton();

        btnActualizarE = new javax.swing.JButton();

        btnCancelarE = new javax.swing.JButton();

        jScrollPane1 = new javax.swing.JScrollPane();

        jTableE = new javax.swing.JTable();

        jPanel1 = new javax.swing.JPanel();

        Usuario_lbl3 = new javax.swing.JLabel();

        Usuario_lbl4 = new javax.swing.JLabel();

        Usuario_lbl5 = new javax.swing.JLabel();

        Usuario_lbl6 = new javax.swing.JLabel();

        Usuario_lbl7 = new javax.swing.JLabel();

        Usuario_lbl8 = new javax.swing.JLabel();

        Usuario_lbl9 = new javax.swing.JLabel();

        txtCURP = new javax.swing.JTextField();

        txtIDE = new javax.swing.JTextField();

        txtNombreE = new javax.swing.JTextField();
```

```java
txtSalD = new javax.swing.JTextField();

txtDom = new javax.swing.JTextField();

txtCuentaCot = new javax.swing.JTextField();

txtNSS = new javax.swing.JTextField();

Usuario_lbl10 = new javax.swing.JLabel();

Usuario_lbl11 = new javax.swing.JLabel();

txtProfesionE = new javax.swing.JTextField();

Usuario_lbl12 = new javax.swing.JLabel();

txtTel = new javax.swing.JTextField();

Usuario_lbl13 = new javax.swing.JLabel();

cbActivo = new javax.swing.JCheckBox();

jdFechaNac = new com.toedter.calendar.JDateChooser();

lSlbl = new javax.swing.JLabel();

btnInicioP = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

getContentPane().setLayout(null);


btnNuevoE.setBackground(new java.awt.Color(202, 223, 251));

btnNuevoE.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnNuevoE.setForeground(new java.awt.Color(25, 55, 87));

btnNuevoE.setText("Nuevo");

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

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

        btnNuevoEActionPerformed(evt);

    }

});

getContentPane().add(btnNuevoE);
```

```java
btnNuevoE.setBounds(690, 560, 120, 50);


btnGuardarE.setBackground(new java.awt.Color(202, 223, 251));

btnGuardarE.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnGuardarE.setForeground(new java.awt.Color(25, 55, 87));

btnGuardarE.setText("Guardar");

btnGuardarE.setEnabled(false);

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

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

        btnGuardarEActionPerformed(evt);

    }

});

getContentPane().add(btnGuardarE);

btnGuardarE.setBounds(840, 560, 120, 50);


btnActualizarE.setBackground(new java.awt.Color(202, 223, 251));

btnActualizarE.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnActualizarE.setForeground(new java.awt.Color(25, 55, 87));

btnActualizarE.setText("Actualizar");

btnActualizarE.setEnabled(false);

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

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

        btnActualizarEActionPerformed(evt);

    }

});

getContentPane().add(btnActualizarE);

btnActualizarE.setBounds(990, 560, 120, 50);
```

```java
btnCancelarE.setBackground(new java.awt.Color(202, 223, 251));

btnCancelarE.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnCancelarE.setForeground(new java.awt.Color(25, 55, 87));

btnCancelarE.setText("Cancelar");

btnCancelarE.setEnabled(false);

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

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

        btnCancelarEActionPerformed(evt);

    }

});

getContentPane().add(btnCancelarE);

btnCancelarE.setBounds(1140, 560, 120, 50);


jTableE.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jTableE.setModel(new javax.swing.table.DefaultTableModel(

    new Object [][] {


    },

    new String [] {

        "ID", "Nombre", "CURP", "Profesión", "Cuenta Cotizl", "Fecha de Nac",
"NSS", "Domicilio", "Teléfono", "Salario Diario", "Estado"

    }

));

jTableE.setAutoResizeMode(javax.swing.JTable.AUTO_RESIZE_OFF);

jTableE.setColumnSelectionAllowed(true);

jTableE.setRowHeight(35);

jTableE.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        jTableEMouseClicked(evt);
```

```
    }

  });

  jScrollPane1.setViewportView(jTableE);


jTableE.getColumnModel().getSelectionModel().setSelectionMode(javax.swing.List
SelectionModel.SINGLE_INTERVAL_SELECTION);

  if (jTableE.getColumnModel().getColumnCount() > 0) {

    jTableE.getColumnModel().getColumn(1).setPreferredWidth(300);

    jTableE.getColumnModel().getColumn(2).setPreferredWidth(250);

    jTableE.getColumnModel().getColumn(3).setPreferredWidth(150);

    jTableE.getColumnModel().getColumn(4).setPreferredWidth(150);

    jTableE.getColumnModel().getColumn(5).setPreferredWidth(140);

    jTableE.getColumnModel().getColumn(6).setPreferredWidth(150);

    jTableE.getColumnModel().getColumn(7).setPreferredWidth(300);

    jTableE.getColumnModel().getColumn(8).setPreferredWidth(200);

    jTableE.getColumnModel().getColumn(9).setPreferredWidth(100);

    jTableE.getColumnModel().getColumn(10).setPreferredWidth(100);

  }


  getContentPane().add(jScrollPane1);

  jScrollPane1.setBounds(650, 150, 650, 350);


  jPanel1.setBackground(new java.awt.Color(87, 131, 188));

  jPanel1.setLayout(null);


  Usuario_lbl3.setFont(new java.awt.Font("Microsoft YaHei", 1, 24)); // NOI18N

  Usuario_lbl3.setForeground(new java.awt.Color(255, 255, 255));

  Usuario_lbl3.setText("EMPLEADO");

  jPanel1.add(Usuario_lbl3);
```

```java
Usuario_lbl3.setBounds(30, 10, 150, 50);


Usuario_lbl4.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl4.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl4.setText("Nombre");

jPanel1.add(Usuario_lbl4);

Usuario_lbl4.setBounds(70, 140, 150, 50);


Usuario_lbl5.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl5.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl5.setText("Cuenta Cotiz");

jPanel1.add(Usuario_lbl5);

Usuario_lbl5.setBounds(280, 230, 150, 50);


Usuario_lbl6.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl6.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl6.setText("Salario Diario");

jPanel1.add(Usuario_lbl6);

Usuario_lbl6.setBounds(280, 500, 150, 50);


Usuario_lbl7.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl7.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl7.setText("CURP");

jPanel1.add(Usuario_lbl7);

Usuario_lbl7.setBounds(280, 50, 150, 50);


Usuario_lbl8.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl8.setForeground(new java.awt.Color(255, 255, 255));
```

```
Usuario_lbl8.setText("NSS");

jPanel1.add(Usuario_lbl8);

Usuario_lbl8.setBounds(280, 320, 150, 50);


Usuario_lbl9.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl9.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl9.setText("Fecha de Nac");

jPanel1.add(Usuario_lbl9);

Usuario_lbl9.setBounds(70, 320, 190, 50);


txtCURP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtCURP.setEnabled(false);

jPanel1.add(txtCURP);

txtCURP.setBounds(280, 90, 170, 50);


txtIDE.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtIDE.setEnabled(false);

jPanel1.add(txtIDE);

txtIDE.setBounds(70, 90, 170, 50);


txtNombreE.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtNombreE.setEnabled(false);

jPanel1.add(txtNombreE);

txtNombreE.setBounds(70, 180, 380, 50);


txtSalD.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtSalD.setEnabled(false);

jPanel1.add(txtSalD);
```

```java
txtSalD.setBounds(280, 540, 170, 50);


txtDom.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtDom.setEnabled(false);

jPanel1.add(txtDom);

txtDom.setBounds(70, 450, 380, 50);


txtCuentaCot.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtCuentaCot.setEnabled(false);

jPanel1.add(txtCuentaCot);

txtCuentaCot.setBounds(280, 270, 170, 50);


txtNSS.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtNSS.setEnabled(false);

jPanel1.add(txtNSS);

txtNSS.setBounds(280, 360, 170, 50);


Usuario_lbl10.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl10.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl10.setText("ID");

jPanel1.add(Usuario_lbl10);

Usuario_lbl10.setBounds(70, 50, 150, 50);


Usuario_lbl11.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl11.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl11.setText("Profesión");

jPanel1.add(Usuario_lbl11);

Usuario_lbl11.setBounds(70, 230, 150, 50);
```

```java
txtProfesionE.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
txtProfesionE.setEnabled(false);
jPanel1.add(txtProfesionE);
txtProfesionE.setBounds(70, 270, 170, 50);


Usuario_lbl12.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N
Usuario_lbl12.setForeground(new java.awt.Color(255, 255, 255));
Usuario_lbl12.setText("Domicilio");
jPanel1.add(Usuario_lbl12);
Usuario_lbl12.setBounds(70, 410, 150, 50);


txtTel.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
txtTel.setEnabled(false);
jPanel1.add(txtTel);
txtTel.setBounds(70, 540, 170, 50);


Usuario_lbl13.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N
Usuario_lbl13.setForeground(new java.awt.Color(255, 255, 255));
Usuario_lbl13.setText("Teléfono");
jPanel1.add(Usuario_lbl13);
Usuario_lbl13.setBounds(70, 500, 150, 50);


cbActivo.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
cbActivo.setForeground(new java.awt.Color(255, 255, 255));
cbActivo.setText("Activo");
cbActivo.setEnabled(false);
cbActivo.addActionListener(new java.awt.event.ActionListener() {
```

```java
        public void actionPerformed(java.awt.event.ActionEvent evt) {

            cbActivoActionPerformed(evt);

        }

    });

    jPanel1.add(cbActivo);

    cbActivo.setBounds(410, 20, 90, 33);


    jdFechaNac.setDateFormatString("MM d, yyyy");

    jdFechaNac.setEnabled(false);

    jPanel1.add(jdFechaNac);

    jdFechaNac.setBounds(70, 360, 180, 50);


    getContentPane().add(jPanel1);

    jPanel1.setBounds(50, 30, 520, 630);


    lSlbl.setFont(new java.awt.Font("Microsoft YaHei", 1, 36)); // NOI18N

    lSlbl.setForeground(new java.awt.Color(255, 255, 255));

    lSlbl.setText("EMPLEADOS");

    getContentPane().add(lSlbl);

    lSlbl.setBounds(650, 60, 320, 60);


    btnInicioP.setBackground(new java.awt.Color(202, 223, 251));

    btnInicioP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

    btnInicioP.setForeground(new java.awt.Color(25, 55, 87));

    btnInicioP.setText("Volver");

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

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

            btnInicioPActionPerformed(evt);
```

```java
        }
    });
    getContentPane().add(btnInicioP);
    btnInicioP.setBounds(1210, 20, 120, 50);


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


private void btnNuevoEActionPerformed(java.awt.event.ActionEvent evt) {
    HabilitarTF();
    btnNuevoE.setEnabled(false);
    btnGuardarE.setEnabled(true);
    btnActualizarE.setEnabled(false);
    btnCancelarE.setEnabled(true);
}


private void btnGuardarEActionPerformed(java.awt.event.ActionEvent evt) {
    if(txtCURP.getText().isEmpty()      ||      txtNombreE.getText().isEmpty()      ||
txtProfesionE.getText().isEmpty() ||
        txtCuentaCot.getText().isEmpty()      ||      txtNSS.getText().isEmpty()      ||
txtDom.getText().isEmpty() || txtTel.getText().isEmpty() ||
        txtSalD.getText().isEmpty()){
        JOptionPane.showMessageDialog(null, "Ningun   campo   puede   quedar
vacio");
    }else{
        GuardarEmpleado();
        DefaultTableModel modelo = (DefaultTableModel) jTableE.getModel();
        Limpiar();
        DeshabilitarTF();
```

```java
    btnNuevoE.setEnabled(true);

    btnGuardarE.setEnabled(false);

    btnActualizarE.setEnabled(false);

    btnCancelarE.setEnabled(false);

    for( int i = modelo.getRowCount() - 1; i >= 0; i-- ) {

        modelo.removeRow(i);

    }

    InsertarEmpleadosT();

    }

}


    private void btnActualizarEActionPerformed(java.awt.event.ActionEvent evt) {

        if(txtCURP.getText().isEmpty()     ||     txtNombreE.getText().isEmpty()     ||
txtProfesionE.getText().isEmpty() ||

        txtCuentaCot.getText().isEmpty()     ||     txtNSS.getText().isEmpty()     ||
txtDom.getText().isEmpty() || txtTel.getText().isEmpty() ||

        txtSalD.getText().isEmpty()){

        JOptionPane.showMessageDialog(null, "Ningun  campo  puede  quedar
vacio");

        }else{

        ActualizarEmpledo();

        DefaultTableModel modelo = (DefaultTableModel) jTableE.getModel();

        Limpiar();

        DeshabilitarTF();

        btnNuevoE.setEnabled(true);

        btnGuardarE.setEnabled(false);

        btnActualizarE.setEnabled(false);

        btnCancelarE.setEnabled(false);

        for( int i = modelo.getRowCount() - 1; i >= 0; i-- ) {
```

```java
        modelo.removeRow(i);

    }

    InsertarEmpleadosT();

  }

}


private void btnCancelarEActionPerformed(java.awt.event.ActionEvent evt) {

    DeshabilitarTF();

    btnNuevoE.setEnabled(true);

    btnGuardarE.setEnabled(false);

    btnActualizarE.setEnabled(false);

    btnCancelarE.setEnabled(false);

    Limpiar();

}


private void btnInicioPActionPerformed(java.awt.event.ActionEvent evt) {

    RecursosHumanos ven=new RecursosHumanos();

    ven.setVisible(true);

    dispose();

}


private void cbActivoActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void jTableEMouseClicked(java.awt.event.MouseEvent evt) {

    int select = jTableE.getSelectedRow();

    txtIDE.setText(jTableE.getValueAt(select, 0).toString());
```

```java
txtCURP.setText(jTableE.getValueAt(select, 2).toString());

txtNombreE.setText(jTableE.getValueAt(select, 1).toString());

txtProfesionE.setText(jTableE.getValueAt(select, 3).toString());

txtCuentaCot.setText(jTableE.getValueAt(select, 4).toString());

String dd = jTableE.getValueAt(select, 5).toString();

Date date;

try {

    date = new SimpleDateFormat("yyyy-MM-dd").parse(dd);

    jdFechaNac.setDate(date);

} catch (ParseException ex) {

    //Logger.getLogger(Empleado.class.getName()).log(Level.SEVERE,     null,
ex);

}

txtNSS.setText(jTableE.getValueAt(select, 6).toString());

txtDom.setText(jTableE.getValueAt(select, 7).toString());

txtTel.setText(jTableE.getValueAt(select, 8).toString());

txtSalD.setText(jTableE.getValueAt(select, 9).toString());

if(jTableE.getValueAt(select, 10).toString().equals("activo")){

    cbActivo.setSelected(true);

}else{

    cbActivo.setSelected(false);

}

HabilitarTF();

btnNuevoE.setEnabled(false);

btnGuardarE.setEnabled(false);

btnActualizarE.setEnabled(true);

btnCancelarE.setEnabled(true);

}
```

```java
public void HabilitarTF(){

    txtCURP.setEnabled(true);

    txtNombreE.setEnabled(true);

    txtProfesionE.setEnabled(true);

    txtCuentaCot.setEnabled(true);

    jdFechaNac.setEnabled(true);

    txtNSS.setEnabled(true);

    txtDom.setEnabled(true);

    txtTel.setEnabled(true);

    txtSalD.setEnabled(true);

    cbActivo.setEnabled(true);
}
public void DeshabilitarTF(){

    txtIDE.setEnabled(false);

    txtCURP.setEnabled(false);

    txtNombreE.setEnabled(false);

    txtProfesionE.setEnabled(false);

    txtCuentaCot.setEnabled(false);

    jdFechaNac.setEnabled(false);

    txtNSS.setEnabled(false);

    txtDom.setEnabled(false);

    txtTel.setEnabled(false);

    txtSalD.setEnabled(false);

    cbActivo.setEnabled(false);
}

public void Limpiar(){

    txtIDE.setText(null);
```

```java
        txtCURP.setText(null);

        txtNombreE.setText(null);

        txtProfesionE.setText(null);

        txtCuentaCot.setText(null);

        //jdFechaNac.setDateFormatString(null);

        txtNSS.setText(null);

        txtDom.setText(null);

        txtTel.setText(null);

        txtSalD.setText(null);

        cbActivo.setSelected(false);

    }

    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(Empleado.class.getName()).log(java.util.logging
.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Empleado.class.getName()).log(java.util.logging
.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Empleado.class.getName()).log(java.util.logging
.Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Empleado.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 Empleado().setVisible(true);

      }

    });

  }


  // Variables declaration - do not modify
  private javax.swing.JLabel lSlbl;

  private javax.swing.JLabel Usuario_lbl10;

  private javax.swing.JLabel Usuario_lbl11;

  private javax.swing.JLabel Usuario_lbl12;
```

```java
private javax.swing.JLabel Usuario_lbl13;

private javax.swing.JLabel Usuario_lbl3;

private javax.swing.JLabel Usuario_lbl4;

private javax.swing.JLabel Usuario_lbl5;

private javax.swing.JLabel Usuario_lbl6;

private javax.swing.JLabel Usuario_lbl7;

private javax.swing.JLabel Usuario_lbl8;

private javax.swing.JLabel Usuario_lbl9;

private javax.swing.JButton btnActualizarE;

private javax.swing.JButton btnCancelarE;

private javax.swing.JButton btnGuardarE;

private javax.swing.JButton btnInicioP;

private javax.swing.JButton btnNuevoE;

private javax.swing.JCheckBox cbActivo;

private javax.swing.JPanel jPanel1;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTable jTableE;

private com.toedter.calendar.JDateChooser jdFechaNac;

private javax.swing.JTextField txtCURP;

private javax.swing.JTextField txtCuentaCot;

private javax.swing.JTextField txtDom;

private javax.swing.JTextField txtIDE;

private javax.swing.JTextField txtNSS;

private javax.swing.JTextField txtNombreE;

private javax.swing.JTextField txtProfesionE;

private javax.swing.JTextField txtSalD;

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

}

Ventana de Estado Financiero (Interfaz)

```java
import java.awt.Color;

import java.awt.GraphicsDevice;

import java.awt.GraphicsEnvironment;

import java.io.FileNotFoundException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.time.LocalDateTime;

import java.time.format.DateTimeFormatter;

import java.util.ArrayList;

import javax.swing.ButtonGroup;

import javax.swing.ImageIcon;

import javax.swing.JFrame;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;


/**

 * @authors Diana Zepeda & Kevin Limón

 */
public class EstadoFinanciero extends javax.swing.JFrame {


    ArrayList<String> listPas = new ArrayList();

    ArrayList<String> listAct = new ArrayList();
```

```java
public EstadoFinanciero() {

    initComponents();

    setIconImage(new
ImageIcon(getClass().getResource("Icon.jpeg")).getImage());

    GraphicsDevice Gd =
GraphicsEnvironment.getLocalGraphicsEnvironment().getDefaultScreenDevice();

    int width = Gd.getDisplayMode().getWidth();

    int height = Gd.getDisplayMode().getHeight();

    this.setSize(width,height);

    Color azul = new Color(62, 95, 138); // Color azul

    this.getContentPane().setBackground(azul); //Cambiar color de fondo

    setExtendedState(MAXIMIZED_BOTH);

    ButtonGroup group = new ButtonGroup();

    group.add(jrbActivo);

    group.add(jrbPasivo);


}


public int UltimoID(){

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    int id = 0;

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();
```

```java
    String sql = "select * from estadofinanciero";

    ResultSet sel = st.executeQuery(sql);

    while(sel.next()){

        id = Integer.parseInt(sel.getString("id_estadof"));

    }

    st.executeUpdate(sql);

    conn.close();

    st.close();

} catch (Exception e) {

    //JOptionPane.showMessageDialog(null, "Error " + e);

}

    return id;

}


public void GuardarAct_Pas(){

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    int id = UltimoID();

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();

        String tipo = "";

        if(jrbActivo.isSelected()){

            tipo = "true"; //activo

        }else if(jrbPasivo.isSelected()){
```

```java
            tipo = "false"; //pasivo
        }
        String sql = "insert into activo_pasivo (id_estadof, nombre, monto, tipo)"
                + "values(" + id + ",'" + txtNombreEF.getText() + "'," +
txtMontoEF.getText() + "," + tipo +")";
        st.executeQuery(sql);
        st.executeUpdate(sql);
        conn.close();
        st.close();
    } catch (Exception e) {
        //JOptionPane.showMessageDialog(null, "Error " + e);
    }
    JOptionPane.showMessageDialog(null, "Se ha guardado con exito");
}


 public void NuevoEF(){
    String BD = "jdbc:postgresql://localhost:5432/baluarte";
    String usuario = "postgres";
    String contra = "lumitylover";
    Connection conn = null;
    listPas.clear();
    listAct.clear();
    try {
        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection(BD, usuario, contra);
        java.sql.Statement st = conn.createStatement();
        String sql = "insert into estadofinanciero (fecha, totalpas, totalact)"
                + "values('" + lblFechaAct.getText() + "',0,0)";
        st.executeUpdate(sql);
```

```java
        conn.close();

        st.close();

    } catch (Exception e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

}


public void ActualizarAct_Pas(){

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    int id = UltimoID();

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();

        String tipo;

        if(jrbActivo.isSelected()){

            tipo = "true"; //activo

        }else{

            tipo = "false"; //pasivo

        }

        String sql = "update activo_pasivo set nombre='" + txtMontoEF.getText() +
"',monto=" + txtMontoEF.getText() + ",tipo=" +

                tipo + " where id_estadof=" + id;

        ResultSet result = st.executeQuery(sql);

        st.executeUpdate(sql);

        conn.close();
```

```java
        st.close();


    } catch (Exception e) {
        //JOptionPane.showMessageDialog(null, "Error " + e);
    }
    JOptionPane.showMessageDialog(null, "Se ha actualizado con exito");
}


public void Calcular(){
    String BD = "jdbc:postgresql://localhost:5432/baluarte";
    String usuario = "postgres";
    String contra = "lumitylover";
    Connection conn = null;
    int id = UltimoID();
    int totalAct = 0, totalPas = 0;
    for(int i = 0; i<listAct.size(); i++){
        totalAct = totalAct + Integer.parseInt(listAct.get(i));
    }
    for(int i = 0; i<listPas.size(); i++){
        totalPas = totalPas + Integer.parseInt(listPas.get(i));
    }
    lblTotalAct.setText(String.valueOf(totalAct));
    lblTotalPas.setText(String.valueOf(totalPas));
    try {
        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection(BD, usuario, contra);
        java.sql.Statement st = conn.createStatement();
```

```java
        String sql = "update estadofinanciero set totalpas='" + totalAct + "',totalact="
+ totalPas +

            " where id_estadof=" + id;

        st.executeQuery(sql);

        st.executeUpdate(sql);

        conn.close();

        st.close();


    } catch (Exception e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

}


public void InsertarAct_Pas(){

    DefaultTableModel modelo = (DefaultTableModel) jTableEF.getModel();

    String datos[] =  new String[3];

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    listPas.clear();

    listAct.clear();

    int id = UltimoID();

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();


        String sql = "select * from activo_pasivo where id_estadof="+ id;;
```

```java
        ResultSet res = st.executeQuery(sql);


    while(res.next()){
        datos[0] = res.getString("nombre");
        datos[1] = res.getString("monto");
        if(res.getString("tipo").equals("t")){
            datos[2] = "activo";
            listAct.add(res.getString("monto"));
        }else{
            datos[2] = "pasivo";
            listPas.add(res.getString("monto"));
        }
        modelo.addRow(datos);
    }


    st.executeUpdate(sql);
    conn.close();
    st.close();


  } catch (Exception e) {
    //JOptionPane.showMessageDialog(null, "Error " + e);
  }
}


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

```java
buttonGroup1 = new javax.swing.ButtonGroup();

ISlbl = new javax.swing.JLabel();

btnInicioP1 = new javax.swing.JButton();

jPanel1 = new javax.swing.JPanel();

Usuario_lbl3 = new javax.swing.JLabel();

Usuario_lbl4 = new javax.swing.JLabel();

Usuario_lbl5 = new javax.swing.JLabel();

Usuario_lbl11 = new javax.swing.JLabel();

txtNombreEF = new javax.swing.JTextField();

txtMontoEF = new javax.swing.JTextField();

jrbActivo = new javax.swing.JRadioButton();

jrbPasivo = new javax.swing.JRadioButton();

btnNuevoEF = new javax.swing.JButton();

btnGuardarEF = new javax.swing.JButton();

btnActualizarEF = new javax.swing.JButton();

btnCancelarEF = new javax.swing.JButton();

jScrollPane1 = new javax.swing.JScrollPane();

jTableEF = new javax.swing.JTable();

Usuario_lbl8 = new javax.swing.JLabel();

btnGenrerEF = new javax.swing.JButton();

lblFechaAct = new javax.swing.JLabel();

Usuario_lbl10 = new javax.swing.JLabel();

lblTotalPas = new javax.swing.JLabel();

Usuario_lbl13 = new javax.swing.JLabel();

lblTotalAct = new javax.swing.JLabel();

btnNuevoR = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```java
lSlbl.setFont(new java.awt.Font("Microsoft YaHei", 1, 36)); // NOI18N

lSlbl.setForeground(new java.awt.Color(255, 255, 255));

lSlbl.setText("ESTADO FINANCIERO");


btnInicioP1.setBackground(new java.awt.Color(202, 223, 251));

btnInicioP1.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnInicioP1.setForeground(new java.awt.Color(25, 55, 87));

btnInicioP1.setText("Volver");

btnInicioP1.addActionListener(new java.awt.event.ActionListener() {

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

        btnInicioP1ActionPerformed(evt);

    }

});


jPanel1.setBackground(new java.awt.Color(87, 131, 188));

jPanel1.setLayout(null);


Usuario_lbl3.setFont(new java.awt.Font("Microsoft YaHei", 1, 24)); // NOI18N

Usuario_lbl3.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl3.setText("ACTIVO/PASIVO");

jPanel1.add(Usuario_lbl3);

Usuario_lbl3.setBounds(150, 20, 220, 50);


Usuario_lbl4.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl4.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl4.setText("Nombre");

jPanel1.add(Usuario_lbl4);
```

```
Usuario_lbl4.setBounds(70, 70, 150, 50);


Usuario_lbl5.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl5.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl5.setText("Monto");

jPanel1.add(Usuario_lbl5);

Usuario_lbl5.setBounds(70, 170, 150, 50);


Usuario_lbl11.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); //
NOI18N

Usuario_lbl11.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl11.setText("Tipo");

jPanel1.add(Usuario_lbl11);

Usuario_lbl11.setBounds(70, 270, 190, 50);


txtNombreEF.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtNombreEF.setEnabled(false);

jPanel1.add(txtNombreEF);

txtNombreEF.setBounds(70, 120, 380, 50);


txtMontoEF.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtMontoEF.setEnabled(false);

jPanel1.add(txtMontoEF);

txtMontoEF.setBounds(70, 220, 380, 50);


jrbActivo.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jrbActivo.setForeground(new java.awt.Color(255, 255, 255));

jrbActivo.setText("Activo");

jrbActivo.setEnabled(false);
```

```java
jPanel1.add(jrbActivo);

jrbActivo.setBounds(140, 320, 90, 30);


jrbPasivo.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jrbPasivo.setForeground(new java.awt.Color(255, 255, 255));

jrbPasivo.setText("Pasivo");

jrbPasivo.setEnabled(false);

jPanel1.add(jrbPasivo);

jrbPasivo.setBounds(290, 320, 90, 30);


btnNuevoEF.setBackground(new java.awt.Color(202, 223, 251));

btnNuevoEF.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnNuevoEF.setForeground(new java.awt.Color(25, 55, 87));

btnNuevoEF.setText("Nuevo");

btnNuevoEF.setEnabled(false);

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

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

        btnNuevoEFActionPerformed(evt);

    }

});

jPanel1.add(btnNuevoEF);

btnNuevoEF.setBounds(80, 400, 120, 50);


btnGuardarEF.setBackground(new java.awt.Color(202, 223, 251));

btnGuardarEF.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); //
NOI18N

btnGuardarEF.setForeground(new java.awt.Color(25, 55, 87));

btnGuardarEF.setText("Guardar");

btnGuardarEF.setEnabled(false);
```

```java
btnGuardarEF.addActionListener(new java.awt.event.ActionListener() {

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

        btnGuardarEFActionPerformed(evt);

    }

});

jPanel1.add(btnGuardarEF);

btnGuardarEF.setBounds(310, 400, 120, 50);


btnActualizarEF.setBackground(new java.awt.Color(202, 223, 251));

btnActualizarEF.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnActualizarEF.setForeground(new java.awt.Color(25, 55, 87));

btnActualizarEF.setText("Actualizar");

btnActualizarEF.setEnabled(false);

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

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

        btnActualizarEFActionPerformed(evt);

    }

});

jPanel1.add(btnActualizarEF);

btnActualizarEF.setBounds(80, 480, 120, 50);


btnCancelarEF.setBackground(new java.awt.Color(202, 223, 251));

btnCancelarEF.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnCancelarEF.setForeground(new java.awt.Color(25, 55, 87));

btnCancelarEF.setText("Cancelar");

btnCancelarEF.setEnabled(false);

btnCancelarEF.addActionListener(new java.awt.event.ActionListener() {
```

```java
public void actionPerformed(java.awt.event.ActionEvent evt) {

    btnCancelarEFActionPerformed(evt);

  }

});

jPanel1.add(btnCancelarEF);

btnCancelarEF.setBounds(310, 480, 120, 50);


jTableEF.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jTableEF.setModel(new javax.swing.table.DefaultTableModel(

  new Object [][] {


  },

  new String [] {

    "Nombre", "Monto", "Tipo"

  }

));

jTableEF.setAutoResizeMode(javax.swing.JTable.AUTO_RESIZE_OFF);

jTableEF.setRowHeight(35);

jScrollPane1.setViewportView(jTableEF);

if (jTableEF.getColumnModel().getColumnCount() > 0) {

  jTableEF.getColumnModel().getColumn(0).setPreferredWidth(350);

  jTableEF.getColumnModel().getColumn(1).setPreferredWidth(150);

  jTableEF.getColumnModel().getColumn(2).setPreferredWidth(150);

}


Usuario_lbl8.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl8.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl8.setText("Total Pasivos:");
```

```java
btnGenrerEF.setBackground(new java.awt.Color(202, 223, 251));

btnGenrerEF.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnGenrerEF.setForeground(new java.awt.Color(25, 55, 87));

btnGenrerEF.setText("Generar");

btnGenrerEF.setEnabled(false);

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

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

        btnGenrerEFActionPerformed(evt);

    }

});


lblFechaAct.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

lblFechaAct.setForeground(new java.awt.Color(255, 255, 255));


Usuario_lbl10.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl10.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl10.setText("Fecha: ");


lblTotalPas.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

lblTotalPas.setForeground(new java.awt.Color(255, 255, 255));


Usuario_lbl13.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl13.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl13.setText("Total Activos:");


lblTotalAct.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N
```

```java
lblTotalAct.setForeground(new java.awt.Color(255, 255, 255));


btnNuevoR.setBackground(new java.awt.Color(202, 223, 251));

btnNuevoR.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnNuevoR.setForeground(new java.awt.Color(25, 55, 87));

btnNuevoR.setText("Nuevo Estado Financiero");

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

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

        btnNuevoRActionPerformed(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(50, 50, 50)

        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
520, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(50, 50, 50)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(layout.createSequentialGroup()

            .addComponent(lSlbl,
javax.swing.GroupLayout.PREFERRED_SIZE, 450,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(140, 140, 140)
```

```
                .addComponent(btnInicioP1,
javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createSequentialGroup()

            .addGap(30, 30, 30)

            .addComponent(Usuario_lbl10)

            .addGap(10, 10, 10)

            .addComponent(lblFechaAct,
javax.swing.GroupLayout.PREFERRED_SIZE, 200,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createSequentialGroup()

            .addGap(30, 30, 30)

            .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 650,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createSequentialGroup()

            .addGap(40, 40, 40)

            .addComponent(Usuario_lbl13,
javax.swing.GroupLayout.PREFERRED_SIZE, 140,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(20, 20, 20)

            .addComponent(lblTotalAct,
javax.swing.GroupLayout.PREFERRED_SIZE, 140,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(40, 40, 40)

            .addComponent(Usuario_lbl8,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(10, 10, 10)

            .addComponent(lblTotalPas,
javax.swing.GroupLayout.PREFERRED_SIZE, 140,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createSequentialGroup()
```

```java
                .addGap(120, 120, 120)

                .addComponent(btnNuevoR)

                .addGap(65, 65, 65)

                .addComponent(btnGenrerEF,
javax.swing.GroupLayout.PREFERRED_SIZE, 160,
javax.swing.GroupLayout.PREFERRED_SIZE))))
        );
        layout.setVerticalGroup(

            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(layout.createSequentialGroup()

                .addGap(60, 60, 60)

                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
570, javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGroup(layout.createSequentialGroup()

                .addGap(20, 20, 20)


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

                    .addGroup(layout.createSequentialGroup()

                        .addGap(20, 20, 20)

                        .addComponent(lSlbl,
javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED_SIZE))

                        .addComponent(btnInicioP1,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE))

                    .addGap(10, 10, 10)


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

                        .addComponent(Usuario_lbl10,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
        .addComponent(lblFechaAct,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(10, 10, 10)

        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 350,
javax.swing.GroupLayout.PREFERRED_SIZE)


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

        .addComponent(Usuario_lbl13,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(lblTotalAct,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(Usuario_lbl8,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(lblTotalPas,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE))


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

        .addComponent(btnNuevoR,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(btnGenrerEF,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)))
    );


    pack();

  }// </editor-fold>
```

```java
private void btnInicioP1ActionPerformed(java.awt.event.ActionEvent evt) {

    Contador ven=new Contador();

    ven.setVisible(true);

    dispose();

}


private void btnNuevoEFActionPerformed(java.awt.event.ActionEvent evt) {

    HabilitarTF();

    btnNuevoEF.setEnabled(false);

    btnGuardarEF.setEnabled(true);

    btnActualizarEF.setEnabled(false);

    btnCancelarEF.setEnabled(true);

}


private void btnGuardarEFActionPerformed(java.awt.event.ActionEvent evt) {
    if(txtNombreEF.getText().isEmpty() || txtMontoEF.getText().isEmpty()){

        JOptionPane.showMessageDialog(null, "Ningun campo puede quedar
vacio");

    }else{

        GuardarAct_Pas();

        DefaultTableModel modelo = (DefaultTableModel) jTableEF.getModel();

        Limpiar();

        DeshabilitarTF();

        btnNuevoEF.setEnabled(true);

        btnGuardarEF.setEnabled(false);

        btnActualizarEF.setEnabled(false);

        btnCancelarEF.setEnabled(false);

        for( int i = modelo.getRowCount() - 1; i >= 0; i-- ) {
```

```
        modelo.removeRow(i);

    }

    InsertarAct_Pas();

    Calcular();

  }

}


private void btnActualizarEFActionPerformed(java.awt.event.ActionEvent evt) {

    if(txtNombreEF.getText().isEmpty() || txtMontoEF.getText().isEmpty()){

        JOptionPane.showMessageDialog(null, "Ningun campo puede quedar
vacio");

    }else{

        ActualizarAct_Pas();

        DefaultTableModel modelo = (DefaultTableModel) jTableEF.getModel();

        Limpiar();

        DeshabilitarTF();

        btnNuevoEF.setEnabled(true);

        btnGuardarEF.setEnabled(false);

        btnActualizarEF.setEnabled(false);

        btnCancelarEF.setEnabled(false);

        for( int i = modelo.getRowCount() - 1; i >= 0; i-- ) {

            modelo.removeRow(i);

        }

        InsertarAct_Pas();

    }

}


private void btnCancelarEFActionPerformed(java.awt.event.ActionEvent evt) {

    DeshabilitarTF();
```

```java
btnNuevoEF.setEnabled(true);

btnGuardarEF.setEnabled(false);

btnActualizarEF.setEnabled(false);

btnCancelarEF.setEnabled(false);

Limpiar();
}


private void btnNuevoRActionPerformed(java.awt.event.ActionEvent evt) {

    DefaultTableModel modelo = (DefaultTableModel) jTableEF.getModel();

    btnNuevoEF.setEnabled(true);

    btnGenrerEF.setEnabled(true);

    DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy/MM/dd");

    lblFechaAct.setText(String.valueOf(dtf.format(LocalDateTime.now())));

    btnNuevoR.setEnabled(false);

    for( int i = modelo.getRowCount() - 1; i >= 0; i-- ) {

         modelo.removeRow(i);

      }

    NuevoEF();
}


private void btnGenrerEFActionPerformed(java.awt.event.ActionEvent evt) {

    btnNuevoR.setEnabled(true);

    DateTimeFormatter dtf = DateTimeFormatter.ofPattern("dd/MM/yyyy");

    String fecha = String.valueOf(dtf.format(LocalDateTime.now()));

    String nombreArch = "EstadoFinanciero_";

    String na = String.valueOf(nombreArch + fecha);

    PdfEstadoF pdf = new PdfEstadoF("EstadoFinanciero",

         fecha,
```

```java
        "C:\\Users\\diana\\Desktop\\5to Semestre\\Seminario de Ingenieria de
Software I\\Versiones Proyecto\\Baluarte3\\Baluarte3\\EstadosF");
    try {
        pdf.crearPdf(UltimoID());
    } catch (FileNotFoundException ex) {
        //Logger.getLogger(EstadoFinanciero.class.getName()).log(Level.SEVERE,
null, ex);
    }
}


public void HabilitarTF(){
    txtNombreEF.setEnabled(true);
    txtMontoEF.setEnabled(true);
    jrbActivo.setEnabled(true);
    jrbPasivo.setEnabled(true);
}
public void DeshabilitarTF(){
    txtNombreEF.setEnabled(false);
    txtMontoEF.setEnabled(false);
    jrbActivo.setEnabled(false);
    jrbPasivo.setEnabled(false);
}

public void Limpiar(){
    txtNombreEF.setText(null);
    txtMontoEF.setText(null);
    jrbActivo.setSelected(false);
    jrbPasivo.setSelected(false);
}
```

```java
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(EstadoFinanciero.class.getName()).log(java.util.
logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(EstadoFinanciero.class.getName()).log(java.util.
logging.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(EstadoFinanciero.class.getName()).log(java.util.
logging.Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```java
java.util.logging.Logger.getLogger(EstadoFinanciero.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 EstadoFinanciero().setVisible(true);
        }
    });
}


// Variables declaration - do not modify
private javax.swing.JLabel ISlbl;
private javax.swing.JLabel Usuario_lbl10;
private javax.swing.JLabel Usuario_lbl11;
private javax.swing.JLabel Usuario_lbl13;
private javax.swing.JLabel Usuario_lbl3;
private javax.swing.JLabel Usuario_lbl4;
private javax.swing.JLabel Usuario_lbl5;
private javax.swing.JLabel Usuario_lbl8;
private javax.swing.JButton btnActualizarEF;
private javax.swing.JButton btnCancelarEF;
private javax.swing.JButton btnGenrerEF;
private javax.swing.JButton btnGuardarEF;
private javax.swing.JButton btnInicioP1;
private javax.swing.JButton btnNuevoEF;
```

```
private javax.swing.JButton btnNuevoR;

private javax.swing.ButtonGroup buttonGroup1;

private javax.swing.JPanel jPanel1;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTable jTableEF;

private javax.swing.JRadioButton jrbActivo;

private javax.swing.JRadioButton jrbPasivo;

private javax.swing.JLabel lblFechaAct;

private javax.swing.JLabel lblTotalAct;

private javax.swing.JLabel lblTotalPas;

private javax.swing.JTextField txtMontoEF;

private javax.swing.JTextField txtNombreEF;

// End of variables declaration
}
```

Ventana de Evaluación (Interfaz)

```
import java.awt.Color;

import java.awt.GraphicsDevice;

import java.awt.GraphicsEnvironment;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.time.LocalDateTime;

import java.time.format.DateTimeFormatter;

import javax.swing.ImageIcon;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;


/**
```

```java
 * @authors Diana Zepeda & Kevin Limón
 */
public class Evaluacion extends javax.swing.JFrame {


    public Evaluacion() {
        initComponents();
        setIconImage(new
ImageIcon(getClass().getResource("Icon.jpeg")).getImage());
        GraphicsDevice Gd =
GraphicsEnvironment.getLocalGraphicsEnvironment().getDefaultScreenDevice();
        int width = Gd.getDisplayMode().getWidth();
        int height = Gd.getDisplayMode().getHeight();
        this.setSize(width,height);
        Color azul = new Color(62, 95, 138); // Color azul
        this.getContentPane().setBackground(azul); //Cambiar color de fondo
        setExtendedState(MAXIMIZED_BOTH);
        DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy/MM/dd");
        lbl7.setText(String.valueOf(dtf.format(LocalDateTime.now())));
        InsertarEmpleadosT();

    }


    public int numEvaluaciones(){
        String BD = "jdbc:postgresql://localhost:5432/baluarte";
        String usuario = "postgres";
        String contra = "lumitylover";
        Connection conn = null;
        int numE = 99;
```

```java
    try{

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();

        String sql = "select * from empleado where
id_empleado="+txtidempleado.getText();


        ResultSet result = st.executeQuery(sql);

        while(result.next()){

            numE = Integer.parseInt(result.getString("evaluacion"));

        }

        st.executeUpdate(sql);

        conn.close();

        st.close();

    } catch(Exception e){

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

    return numE;


}


public void guardarNum(){

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    int numE = numEvaluaciones() + 1;

    try{
```

```java
        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();


        String sql = "update empleado set evaluacion =
"+String.valueOf(numE)+"where id_empleado="+txtidempleado.getText();

        ResultSet result = st.executeQuery(sql);

        st.executeUpdate(sql);

        conn.close();

        st.close();

    } catch(Exception e){

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

}


public void guardarEvaluacion(){

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    guardarNum();

    try{


        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();

        String BO = String.valueOf(jsBO.getValue());

        String MO = String.valueOf(jsMO.getValue());
```

```
        String sql = "insert into evaluacion (id_empleado, fecha, buenasobs,
malasobs, comentario)"

                + "values(" + txtidempleado.getText() + ",'" + lbl7.getText() + "'," + BO
+ "," + MO + ",'" + txtCom.getText() + "')";

        ResultSet result = st.executeQuery(sql);

        st.executeUpdate(sql);

        conn.close();

        st.close();

    } catch(Exception e){

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }


    JOptionPane.showMessageDialog(null, "Se ha guardado con exito");


}


public void InsertarEmpleadosT(){

    DefaultTableModel modelo = (DefaultTableModel) jTableE3.getModel();

    String datos[] =  new String[2];

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        //JOptionPane.showMessageDialog(null, "BD conectada con exito");

        java.sql.Statement st = conn.createStatement();
```

```java
        String sql = "select * from empleado where estado=true";
        ResultSet res = st.executeQuery(sql);


        while(res.next()){
            datos[0] = res.getString("id_empleado");
            datos[1] = res.getString("nombre");


            modelo.addRow(datos);
        }


        st.executeUpdate(sql);
        conn.close();
        st.close();


    } catch (Exception e) {
        //JOptionPane.showMessageDialog(null, "Error " + e);
    }


}


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


    jPanel1 = new javax.swing.JPanel();
    Usuario_lbl4 = new javax.swing.JLabel();
    Usuario_lbl5 = new javax.swing.JLabel();
    lbl9 = new javax.swing.JLabel();
```

```java
txtIDEv = new javax.swing.JTextField();

Usuario_lbl10 = new javax.swing.JLabel();

Usuario_lbl11 = new javax.swing.JLabel();

Usuario_lbl8 = new javax.swing.JLabel();

jsMO = new javax.swing.JSpinner();

jsBO = new javax.swing.JSpinner();

jScrollPane1 = new javax.swing.JScrollPane();

txtCom = new javax.swing.JTextArea();

txtidempleado = new javax.swing.JTextField();

lbl7 = new javax.swing.JLabel();

btnInicioP1 = new javax.swing.JButton();

btnGuardarEv = new javax.swing.JButton();

jScrollPane2 = new javax.swing.JScrollPane();

jTableE3 = new javax.swing.JTable();

ISlbl1 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

getContentPane().setLayout(null);


jPanel1.setBackground(new java.awt.Color(87, 131, 188));

jPanel1.setLayout(null);


Usuario_lbl4.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl4.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl4.setText("Malas Observaciones");

jPanel1.add(Usuario_lbl4);

Usuario_lbl4.setBounds(350, 150, 240, 50);
```

```
Usuario_lbl5.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl5.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl5.setText("Comentarios");

jPanel1.add(Usuario_lbl5);

Usuario_lbl5.setBounds(70, 240, 150, 50);


lbl9.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

lbl9.setForeground(new java.awt.Color(255, 255, 255));

lbl9.setText("Fecha:");

jPanel1.add(lbl9);

lbl9.setBounds(330, 10, 200, 50);


txtIDEv.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtIDEv.setEnabled(false);

jPanel1.add(txtIDEv);

txtIDEv.setBounds(70, 100, 230, 50);


Usuario_lbl10.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); //
NOI18N

Usuario_lbl10.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl10.setText("ID");

jPanel1.add(Usuario_lbl10);

Usuario_lbl10.setBounds(70, 60, 150, 50);


Usuario_lbl11.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); //
NOI18N

Usuario_lbl11.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl11.setText("Buenas Observaciones");

jPanel1.add(Usuario_lbl11);
```

```java
Usuario_lbl11.setBounds(70, 150, 240, 50);


Usuario_lbl8.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl8.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl8.setText("ID Empleado");

jPanel1.add(Usuario_lbl8);

Usuario_lbl8.setBounds(350, 60, 150, 50);


jsMO.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jPanel1.add(jsMO);

jsMO.setBounds(350, 190, 220, 50);


jsBO.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jPanel1.add(jsBO);

jsBO.setBounds(70, 190, 230, 50);


txtCom.setColumns(20);

txtCom.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtCom.setRows(5);

txtCom.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));

jScrollPane1.setViewportView(txtCom);


jPanel1.add(jScrollPane1);

jScrollPane1.setBounds(70, 280, 500, 170);


txtidempleado.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); //
NOI18N

txtidempleado.setEnabled(false);

jPanel1.add(txtidempleado);
```

```java
txtidempleado.setBounds(350, 100, 220, 50);


lbl7.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

lbl7.setForeground(new java.awt.Color(255, 255, 255));

jPanel1.add(lbl7);

lbl7.setBounds(420, 10, 200, 50);


getContentPane().add(jPanel1);

jPanel1.setBounds(70, 90, 640, 500);


btnInicioP1.setBackground(new java.awt.Color(202, 223, 251));

btnInicioP1.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnInicioP1.setForeground(new java.awt.Color(25, 55, 87));

btnInicioP1.setText("Volver");

btnInicioP1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnInicioP1ActionPerformed(evt);
    }
});
getContentPane().add(btnInicioP1);

btnInicioP1.setBounds(1210, 20, 120, 50);


btnGuardarEv.setBackground(new java.awt.Color(202, 223, 251));

btnGuardarEv.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnGuardarEv.setForeground(new java.awt.Color(25, 55, 87));

btnGuardarEv.setText("Guardar");

btnGuardarEv.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```java
        btnGuardarEvActionPerformed(evt);

    }

});

getContentPane().add(btnGuardarEv);

btnGuardarEv.setBounds(290, 610, 190, 50);


jTableE3.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jTableE3.setModel(new javax.swing.table.DefaultTableModel(

    new Object [][] {


    },

    new String [] {

        "ID", "Nombre"

    }

));

jTableE3.setAutoResizeMode(javax.swing.JTable.AUTO_RESIZE_OFF);

jTableE3.setColumnSelectionAllowed(true);

jTableE3.setRowHeight(35);

jTableE3.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        jTableE3MouseClicked(evt);

    }

});

jScrollPane2.setViewportView(jTableE3);


jTableE3.getColumnModel().getSelectionModel().setSelectionMode(javax.swing.ListSelectionModel.SINGLE_INTERVAL_SELECTION);

    if (jTableE3.getColumnModel().getColumnCount() > 0) {

        jTableE3.getColumnModel().getColumn(1).setPreferredWidth(400);
```

```
    }


    getContentPane().add(jScrollPane2);

    jScrollPane2.setBounds(800, 130, 480, 440);


    lSlbl1.setFont(new java.awt.Font("Microsoft YaHei", 1, 36)); // NOI18N

    lSlbl1.setForeground(new java.awt.Color(255, 255, 255));

    lSlbl1.setText("EVALUACIÓN");

    getContentPane().add(lSlbl1);

    lSlbl1.setBounds(270, 20, 320, 60);


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


private void btnGuardarEvActionPerformed(java.awt.event.ActionEvent evt) {
    if(txtCom.getText().isEmpty() || txtidempleado.getText().isEmpty()){

        JOptionPane.showMessageDialog(null, "Ningun campo puede quedar
vacio");}

    else{

        guardarEvaluacion();

        limpiar();

    }


}
private void limpiar(){

    txtidempleado.setText(null);

    jsMO.setValue(0);

    jsBO.setValue(0);

    txtCom.setText(null);
```

```java
    }
    private void btnInicioP1ActionPerformed(java.awt.event.ActionEvent evt) {
        RecursosHumanos ven=new RecursosHumanos();
        ven.setVisible(true);
        dispose();
    }


    private void jTableE3MouseClicked(java.awt.event.MouseEvent evt) {
        int select = jTableE3.getSelectedRow();
        txtidempleado.setText(jTableE3.getValueAt(select, 0).toString());
    }


    /**
     * @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(Evaluacion.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Evaluacion.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Evaluacion.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Evaluacion.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);

    }
    //</editor-fold>


    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {

      public void run() {

        new Evaluacion().setVisible(true);

      }

    });

  }


  // Variables declaration - do not modify

  private javax.swing.JLabel lSlbl1;
```

```java
    private javax.swing.JLabel Usuario_lbl10;

    private javax.swing.JLabel Usuario_lbl11;

    private javax.swing.JLabel Usuario_lbl4;

    private javax.swing.JLabel Usuario_lbl5;

    private javax.swing.JLabel Usuario_lbl8;

    private javax.swing.JButton btnGuardarEv;

    private javax.swing.JButton btnInicioP1;

    private javax.swing.JPanel jPanel1;

    private javax.swing.JScrollPane jScrollPane1;

    private javax.swing.JScrollPane jScrollPane2;

    private javax.swing.JTable jTableE3;

    private javax.swing.JSpinner jsBO;

    private javax.swing.JSpinner jsMO;

    private javax.swing.JLabel lbl7;

    private javax.swing.JLabel lbl9;

    private javax.swing.JTextArea txtCom;

    private javax.swing.JTextField txtIDEv;

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

Ventana de Generar Reporte (Interfaz)

```java
ort java.awt.Color;

import static java.awt.Frame.MAXIMIZED_BOTH;

import java.awt.GraphicsDevice;

import java.awt.GraphicsEnvironment;

import java.awt.Image;

import java.io.ByteArrayInputStream;

import java.io.File;
```

```java
import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.time.LocalDateTime;

import java.time.format.DateTimeFormatter;

import java.util.Iterator;

import javax.imageio.ImageIO;

import javax.imageio.ImageReadParam;

import javax.imageio.ImageReader;

import javax.imageio.stream.ImageInputStream;

import javax.swing.ImageIcon;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;




/**

 * @authors Diana Zepeda & Kevin Limón

 */

public class GenerarReporte extends javax.swing.JFrame {



    public GenerarReporte() {
```

```java
    initComponents();

    setIconImage(new
ImageIcon(getClass().getResource("Icon.jpeg")).getImage());

    GraphicsDevice Gd =
GraphicsEnvironment.getLocalGraphicsEnvironment().getDefaultScreenDevice();

    int width = Gd.getDisplayMode().getWidth();

    int height = Gd.getDisplayMode().getHeight();

    this.setSize(width,height);

    Color azul = new Color(62, 95, 138); // Color azul

    this.getContentPane().setBackground(azul); //Cambiar color de fondo

    setExtendedState(MAXIMIZED_BOTH);

    InsertarEmpleadosT();


}



public void ActualizarEvaluaciones(){
    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();


        String sql = "update evaluacion set reporte=true where id_empleado=" +
txtIDER.getText();

        st.executeQuery(sql);
```

```java
            st.executeUpdate(sql);

            conn.close();

            st.close();


        } catch (Exception e) {

            //JOptionPane.showMessageDialog(null, "Error " + e);

        }

        try {

            Class.forName("org.postgresql.Driver");

            conn = DriverManager.getConnection(BD, usuario, contra);

            java.sql.Statement st = conn.createStatement();


            String sql = "update empleado set evaluacion=0 where id_empleado=" +
txtIDER.getText();

            st.executeQuery(sql);

            st.executeUpdate(sql);

            conn.close();

            st.close();


        } catch (Exception e) {

            //JOptionPane.showMessageDialog(null, "Error " + e);

        }


    }


    public boolean guardarfoto(int rendimiento) throws ClassNotFoundException,
SQLException {

        FileInputStream fis = null;

        String BD = "jdbc:postgresql://localhost:5432/baluarte";
```

```java
        String usuario = "postgres";

        String contra = "lumitylover";

        Connection conn = null;

        String ruta = "C:\\Users\\diana\\Desktop\\5to Semestre\\Seminario de
Ingenieria de Software I\\Versiones
Proyecto\\Baluarte3\\Baluarte\\Reporte_"+txtNombreR.getText()+".png";

        String name = txtNombreR.getText();

        DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy/MM/dd");

        String fecha = String.valueOf(dtf.format(LocalDateTime.now()));


        int id = Integer.parseInt(txtIDER.getText());
        try {

            Class.forName("org.postgresql.Driver");

            conn = DriverManager.getConnection(BD, usuario, contra);


            File file = new File(ruta);

            fis = new FileInputStream(file);

            PreparedStatement pstm = conn.prepareStatement("INSERT into " +

                    " reporte(id_empleado, fecha, nombre, rendimiento, archivo) " + "
VALUES(?,?,?,?,?)");

            pstm.setInt(1, id);

            pstm.setString(2, fecha);

            pstm.setString(3, name);

            pstm.setInt(4, rendimiento);

            pstm.setBinaryStream(5, fis,(int) file.length());

            pstm.execute();

            pstm.close();

            return true;

        } catch (FileNotFoundException e) {
```

```
        //JOptionPane.showMessageDialog(null, "Error " + e);

    } catch (SQLException e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    } finally {

        try {

            fis.close();

        } catch (IOException e) {

        // JOptionPane.showMessageDialog(null, "Error " + e);

        }

    }

    return false;

}


private Image ConvertirImagen(byte[] bytes) throws IOException {

    ByteArrayInputStream bis = new ByteArrayInputStream(bytes);

    Iterator readers = ImageIO.getImageReadersByFormatName("jpeg");

    ImageReader reader = (ImageReader) readers.next();

    Object source = bis;

    ImageInputStream iis = ImageIO.createImageInputStream(source);

    reader.setInput(iis, true);

    ImageReadParam param = reader.getDefaultReadParam();

    return reader.read(0, param);

}



    public void InsertarEmpleadosT(){

        DefaultTableModel modelo = (DefaultTableModel) jTableE2.getModel();

        String datos[] =  new String[3];
```

```java
String BD = "jdbc:postgresql://localhost:5432/baluarte";

String usuario = "postgres";

String contra = "lumitylover";

Connection conn = null;

try {

    Class.forName("org.postgresql.Driver");

    conn = DriverManager.getConnection(BD, usuario, contra);

    //JOptionPane.showMessageDialog(null, "BD conectada con exito");

    java.sql.Statement st = conn.createStatement();


    String sql = "select * from empleado where estado=true";

    ResultSet res = st.executeQuery(sql);


    while(res.next()){

        datos[0] = res.getString("id_empleado");

        datos[1] = res.getString("nombre");

        datos[2] = res.getString("evaluacion");

        modelo.addRow(datos);

    }


    st.executeUpdate(sql);

    conn.close();

    st.close();


} catch (Exception e) {

    //JOptionPane.showMessageDialog(null, "Error " + e);

}
```

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

    jPanel1 = new javax.swing.JPanel();
    Usuario_lbl3 = new javax.swing.JLabel();
    Usuario_lbl4 = new javax.swing.JLabel();
    txtIDER = new javax.swing.JTextField();
    txtNumE = new javax.swing.JTextField();
    Usuario_lbl10 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTableE = new javax.swing.JTable();
    txtNombreR = new javax.swing.JTextField();
    Usuario_lbl14 = new javax.swing.JLabel();
    ISlbl1 = new javax.swing.JLabel();
    jScrollPane2 = new javax.swing.JScrollPane();
    jTableE2 = new javax.swing.JTable();
    btnReporte = new javax.swing.JButton();
    btnInicioP1 = new javax.swing.JButton();
    lblFechaAct = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jPanel1.setBackground(new java.awt.Color(87, 131, 188));
    jPanel1.setLayout(null);

    Usuario_lbl3.setFont(new java.awt.Font("Microsoft YaHei", 1, 24)); // NOI18N
```

```
Usuario_lbl3.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl3.setText("EMPLEADO");

jPanel1.add(Usuario_lbl3);

Usuario_lbl3.setBounds(200, 40, 150, 50);


Usuario_lbl4.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl4.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl4.setText("Nombre");

jPanel1.add(Usuario_lbl4);

Usuario_lbl4.setBounds(60, 200, 150, 50);


txtIDER.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtIDER.setEnabled(false);

jPanel1.add(txtIDER);

txtIDER.setBounds(60, 140, 190, 50);


txtNumE.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtNumE.setEnabled(false);

jPanel1.add(txtNumE);

txtNumE.setBounds(290, 140, 190, 50);


Usuario_lbl10.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl10.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl10.setText("Núm Evaluciones");

jPanel1.add(Usuario_lbl10);

Usuario_lbl10.setBounds(290, 100, 260, 50);


jTableE.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
```

```java
jTableE.setModel(new javax.swing.table.DefaultTableModel(

    new Object [][] {

    },
    new String [] {
        "ID", "Nombre", "CURP", "Profesión", "Cuenta Cotizl", "Fecha de Nac",
"NSS", "Domicilio", "Teléfono", "Salario Diario", "Estado"
    }
));
jTableE.setAutoResizeMode(javax.swing.JTable.AUTO_RESIZE_OFF);

jTableE.setColumnSelectionAllowed(true);

jTableE.setRowHeight(35);

jTableE.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        jTableEMouseClicked(evt);

    }

});

jScrollPane1.setViewportView(jTableE);


jPanel1.add(jScrollPane1);

jScrollPane1.setBounds(650, 150, 650, 350);


txtNombreR.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtNombreR.setEnabled(false);

jPanel1.add(txtNombreR);

txtNombreR.setBounds(60, 250, 420, 50);


Usuario_lbl14.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); //
NOI18N
```

```java
Usuario_lbl14.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl14.setText("ID");

jPanel1.add(Usuario_lbl14);

Usuario_lbl14.setBounds(60, 100, 150, 50);


lSlbl1.setFont(new java.awt.Font("Microsoft YaHei", 1, 36)); // NOI18N

lSlbl1.setForeground(new java.awt.Color(255, 255, 255));

lSlbl1.setText("REPORTE");


jTableE2.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jTableE2.setModel(new javax.swing.table.DefaultTableModel(

    new Object [][] {


    },
    new String [] {
        "ID", "Nombre", "Num Evauaciones"
    }

));

jTableE2.setAutoResizeMode(javax.swing.JTable.AUTO_RESIZE_OFF);

jTableE2.setColumnSelectionAllowed(true);

jTableE2.setRowHeight(35);

jTableE2.addMouseListener(new java.awt.event.MouseAdapter() {

    public void mouseClicked(java.awt.event.MouseEvent evt) {

        jTableE2MouseClicked(evt);

    }

});

jScrollPane2.setViewportView(jTableE2);
```

```java
jTableE2.getColumnModel().getSelectionModel().setSelectionMode(javax.swing.ListSelectionModel.SINGLE_INTERVAL_SELECTION);
    if (jTableE2.getColumnModel().getColumnCount() > 0) {
        jTableE2.getColumnModel().getColumn(1).setPreferredWidth(350);
        jTableE2.getColumnModel().getColumn(2).setPreferredWidth(150);
    }


    btnReporte.setBackground(new java.awt.Color(202, 223, 251));
    btnReporte.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
    btnReporte.setForeground(new java.awt.Color(25, 55, 87));
    btnReporte.setText("Generar Reporte");
    btnReporte.setEnabled(false);
    btnReporte.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnReporteActionPerformed(evt);
        }
    });


    btnInicioP1.setBackground(new java.awt.Color(202, 223, 251));
    btnInicioP1.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
    btnInicioP1.setForeground(new java.awt.Color(25, 55, 87));
    btnInicioP1.setText("Volver");
    btnInicioP1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnInicioP1ActionPerformed(evt);
        }
    });
```

```java
lblFechaAct.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

lblFechaAct.setForeground(new java.awt.Color(255, 255, 255));


javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(lblFechaAct)

    .addGroup(layout.createSequentialGroup()

        .addGap(650, 650, 650)

        .addComponent(ISlbl1, javax.swing.GroupLayout.PREFERRED_SIZE,
320, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(240, 240, 240)

        .addComponent(btnInicioP1,
javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE))

    .addGroup(layout.createSequentialGroup()

        .addGap(50, 50, 50)

        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
540, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(60, 60, 60)

        .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 580,
javax.swing.GroupLayout.PREFERRED_SIZE))

    .addGroup(layout.createSequentialGroup()

        .addGap(760, 760, 760)

        .addComponent(btnReporte,
javax.swing.GroupLayout.PREFERRED_SIZE, 220,
javax.swing.GroupLayout.PREFERRED_SIZE))

);
```

```java
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(lblFechaAct)
        .addGap(20, 20, 20)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(20, 20, 20)
                .addComponent(lSlbl1,
javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addComponent(btnInicioP1,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(40, 40, 40)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 380,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(layout.createSequentialGroup()
                .addGap(8, 8, 8)
                .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 350,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(80, 80, 80)
        .addComponent(btnReporte,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE))
);
```

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


private void jTableEMouseClicked(java.awt.event.MouseEvent evt) {



}


private void jTableE2MouseClicked(java.awt.event.MouseEvent evt) {
    int select = jTableE2.getSelectedRow();
    txtIDER.setText(jTableE2.getValueAt(select, 0).toString());
    txtNombreR.setText(jTableE2.getValueAt(select, 1).toString());
    txtNumE.setText(jTableE2.getValueAt(select, 2).toString());


    if(Integer.parseInt(txtNumE.getText()) != 0 ){
        btnReporte.setEnabled(true);
    }
}


private void btnReporteActionPerformed(java.awt.event.ActionEvent evt) {
    DateTimeFormatter dtf = DateTimeFormatter.ofPattern("dd/MM/yyyy");
    String fecha = String.valueOf(dtf.format(LocalDateTime.now()));
    String nombreArch = "Reporte_"+txtNombreR.getText();
    String na = String.valueOf(nombreArch + fecha);
    int rendimiento;
    PdfReporte pdf = new PdfReporte(nombreArch,
            fecha,
```

```java
        "C:\\Users\\diana\\Desktop\\5to Semestre\\Seminario de Ingenieria de
Software I\\Versiones Proyecto\\Baluarte3\\Baluarte3\\EstadosF");
    try {
        rendimiento = pdf.crearPdf(txtIDER.getText(), txtNombreR.getText());
        guardarfoto(rendimiento);
        ActualizarEvaluaciones();
        DefaultTableModel modelo = (DefaultTableModel) jTableE2.getModel();
        for( int i = modelo.getRowCount() - 1; i >= 0; i-- ) {
            modelo.removeRow(i);
        }
        InsertarEmpleadosT();
        JOptionPane.showMessageDialog(null, "El archivo PDF se a creado
correctamente!");
    } catch (FileNotFoundException ex) {
        //Logger.getLogger(EstadoFinanciero.class.getName()).log(Level.SEVERE,
null, ex);
    } catch (IOException ex) {
        //Logger.getLogger(GenerarReporte.class.getName()).log(Level.SEVERE,
null, ex);
    } catch (ClassNotFoundException ex) {
        //Logger.getLogger(GenerarReporte.class.getName()).log(Level.SEVERE,
null, ex);
    } catch (SQLException ex) {
        //Logger.getLogger(GenerarReporte.class.getName()).log(Level.SEVERE,
null, ex);
    }
}


private void btnInicioP1ActionPerformed(java.awt.event.ActionEvent evt) {
    RecursosHumanos ven=new RecursosHumanos();
```

```java
    ven.setVisible(true);

    dispose();

  }


  /**

   * @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(GenerarReporte.class.getName()).log(java.util.l
ogging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {
```

```java
java.util.logging.Logger.getLogger(GenerarReporte.class.getName()).log(java.util.l
ogging.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(GenerarReporte.class.getName()).log(java.util.l
ogging.Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(GenerarReporte.class.getName()).log(java.util.l
ogging.Level.SEVERE, null, ex);

    }
    //</editor-fold>


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


  // Variables declaration - do not modify
  private javax.swing.JLabel ISlbl1;
  private javax.swing.JLabel Usuario_lbl10;
  private javax.swing.JLabel Usuario_lbl14;
  private javax.swing.JLabel Usuario_lbl3;
  private javax.swing.JLabel Usuario_lbl4;
  private javax.swing.JButton btnInicioP1;
  private javax.swing.JButton btnReporte;
```

```java
    private javax.swing.JPanel jPanel1;

    private javax.swing.JScrollPane jScrollPane1;

    private javax.swing.JScrollPane jScrollPane2;

    private javax.swing.JTable jTableE;

    private javax.swing.JTable jTableE2;

    private javax.swing.JLabel lblFechaAct;

    private javax.swing.JTextField txtIDER;

    private javax.swing.JTextField txtNombreR;

    private javax.swing.JTextField txtNumE;

    // End of variables declaration

}
```

Ventana de Inventario (Interfaz)

```java
import java.awt.Color;

import java.awt.GraphicsDevice;

import java.awt.GraphicsEnvironment;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import javax.swing.ImageIcon;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;


/**
 * @authors Diana Zepeda & Kevin Limón
 */
public class Inventario extends javax.swing.JFrame {


    public Inventario() {
```

```java
    initComponents();

    GraphicsDevice Gd =
GraphicsEnvironment.getLocalGraphicsEnvironment().getDefaultScreenDevice();

    int width = Gd.getDisplayMode().getWidth();

    int height = Gd.getDisplayMode().getHeight();

    this.setSize(width,height);

    Color azul = new Color(62, 95, 138); // Color azul

    this.getContentPane().setBackground(azul); //Cambiar color de fondo

    setExtendedState(MAXIMIZED_BOTH);

    setIconImage(new
ImageIcon(getClass().getResource("Icon.jpeg")).getImage());


    InsertarProductosT();
  }


  public void GuardarProducto(){
    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    try {
      Class.forName("org.postgresql.Driver");

      conn = DriverManager.getConnection(BD, usuario, contra);

      java.sql.Statement st = conn.createStatement();

      String total =
String.valueOf(Integer.parseInt(txtCantidadP.getText())*Integer.parseInt(txtValUnP.
getText()));

      String sql = "insert into producto (nombre, cantidad, valorunitario, valortotal,
descripcion)"
```

```
            + "values('" + txtNombreP.getText() + "'," + txtCantidadP.getText() +
"," + txtValUnP.getText() + "," +

                total + ",'" + jtDes.getText() + "')";

        st.executeQuery(sql);

        st.executeUpdate(sql);

        conn.close();

        st.close();

    } catch (Exception e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

    JOptionPane.showMessageDialog(null, "Se ha guardado con exito");

}


public void ActualizarProducto(){

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();

        String total =
String.valueOf(Integer.parseInt(txtCantidadP.getText())*Integer.parseInt(txtValUnP.
getText()));

        String sql = "update producto set nombre='" + txtNombreP.getText() +
"',cantidad=" + txtCantidadP.getText() + ",valorunitario=" +

            txtValUnP.getText() + ", valortotal=" + total + ",descripcion='" +
jtDes.getText() +

            "' where idproducto=" + txtIDP.getText();
```

```java
        st.executeQuery(sql);

        st.executeUpdate(sql);

        conn.close();

        st.close();


    } catch (Exception e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

    JOptionPane.showMessageDialog(null, "Se ha actualizado con exito");

}


public void InsertarProductosT(){

    DefaultTableModel modelo = (DefaultTableModel) jTableP.getModel();

    String datos[] =  new String[6];

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        java.sql.Statement st = conn.createStatement();


        String sql = "select * from producto";

        ResultSet res = st.executeQuery(sql);


        while(res.next()){

            datos[0] = res.getString("idproducto");
```

```java
            datos[1] = res.getString("nombre");

            datos[2] = res.getString("cantidad");

            datos[3] = res.getString("valorunitario");

            datos[4] = res.getString("valortotal");

            datos[5] = res.getString("descripcion");

            modelo.addRow(datos);

        }


        st.executeUpdate(sql);

        conn.close();

        st.close();


    } catch (Exception e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

}


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


    jPanel1 = new javax.swing.JPanel();

    Usuario_lbl3 = new javax.swing.JLabel();

    Usuario_lbl4 = new javax.swing.JLabel();

    Usuario_lbl6 = new javax.swing.JLabel();

    Usuario_lbl7 = new javax.swing.JLabel();

    Usuario_lbl8 = new javax.swing.JLabel();

    Usuario_lbl9 = new javax.swing.JLabel();
```

```java
txtValTotP = new javax.swing.JTextField();

txtIDP = new javax.swing.JTextField();

txtNombreP = new javax.swing.JTextField();

txtCantidadP = new javax.swing.JTextField();

txtValUnP = new javax.swing.JTextField();

jScrollPane2 = new javax.swing.JScrollPane();

jtDes = new javax.swing.JTextArea();

Usuario_lbl5 = new javax.swing.JLabel();

ISlbl = new javax.swing.JLabel();

jScrollPane1 = new javax.swing.JScrollPane();

jTableP = new javax.swing.JTable();

btnNuevoP = new javax.swing.JButton();

btnGuardarP = new javax.swing.JButton();

btnActualizarP = new javax.swing.JButton();

btnCancelarP = new javax.swing.JButton();

btnInicioP = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

getContentPane().setLayout(null);


jPanel1.setBackground(new java.awt.Color(87, 131, 188));

jPanel1.setLayout(null);


Usuario_lbl3.setFont(new java.awt.Font("Microsoft YaHei", 1, 24)); // NOI18N

Usuario_lbl3.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl3.setText("PRODUCTO");

jPanel1.add(Usuario_lbl3);

Usuario_lbl3.setBounds(180, 20, 150, 50);
```

```java
Usuario_lbl4.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl4.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl4.setText("Nombre");

jPanel1.add(Usuario_lbl4);

Usuario_lbl4.setBounds(70, 170, 150, 50);


Usuario_lbl6.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl6.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl6.setText("Descripción");

jPanel1.add(Usuario_lbl6);

Usuario_lbl6.setBounds(70, 370, 150, 50);


Usuario_lbl7.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl7.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl7.setText("ID");

jPanel1.add(Usuario_lbl7);

Usuario_lbl7.setBounds(70, 80, 150, 50);


Usuario_lbl8.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl8.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl8.setText("Valor Total");

jPanel1.add(Usuario_lbl8);

Usuario_lbl8.setBounds(280, 270, 150, 50);


Usuario_lbl9.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl9.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl9.setText("Valor Unitario");
```

```
jPanel1.add(Usuario_lbl9);

Usuario_lbl9.setBounds(70, 270, 190, 50);


txtValTotP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtValTotP.setEnabled(false);

jPanel1.add(txtValTotP);

txtValTotP.setBounds(280, 320, 170, 50);


txtIDP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtIDP.setEnabled(false);

jPanel1.add(txtIDP);

txtIDP.setBounds(70, 120, 170, 50);


txtNombreP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtNombreP.setEnabled(false);

jPanel1.add(txtNombreP);

txtNombreP.setBounds(70, 220, 380, 50);


txtCantidadP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtCantidadP.setEnabled(false);

jPanel1.add(txtCantidadP);

txtCantidadP.setBounds(280, 120, 170, 50);


txtValUnP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

txtValUnP.setEnabled(false);

jPanel1.add(txtValUnP);

txtValUnP.setBounds(70, 320, 170, 50);
```

```java
jtDes.setColumns(20);

jtDes.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jtDes.setRows(5);

jtDes.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));

jtDes.setEnabled(false);

jScrollPane2.setViewportView(jtDes);


jPanel1.add(jScrollPane2);

jScrollPane2.setBounds(70, 410, 380, 150);


Usuario_lbl5.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

Usuario_lbl5.setForeground(new java.awt.Color(255, 255, 255));

Usuario_lbl5.setText("Cantidad");

jPanel1.add(Usuario_lbl5);

Usuario_lbl5.setBounds(280, 80, 150, 50);


getContentPane().add(jPanel1);

jPanel1.setBounds(50, 40, 520, 610);


ISlbl.setFont(new java.awt.Font("Microsoft YaHei", 1, 36)); // NOI18N

ISlbl.setForeground(new java.awt.Color(255, 255, 255));

ISlbl.setText("INVENTARIO");

getContentPane().add(ISlbl);

ISlbl.setBounds(650, 60, 320, 60);


jTableP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jTableP.setModel(new javax.swing.table.DefaultTableModel(

    new Object [][] {
```

```java
    },
    new String [] {
        "ID", "Nombre", "Cantidad", "Valor Unitario", "Valor Total", "Descripción"
    }
));
jTableP.setAutoResizeMode(javax.swing.JTable.AUTO_RESIZE_OFF);
jTableP.setRowHeight(35);
jTableP.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTablePMouseClicked(evt);
    }
});
jScrollPane1.setViewportView(jTableP);
if (jTableP.getColumnModel().getColumnCount() > 0) {
    jTableP.getColumnModel().getColumn(1).setPreferredWidth(300);
    jTableP.getColumnModel().getColumn(2).setPreferredWidth(150);
    jTableP.getColumnModel().getColumn(3).setPreferredWidth(150);
    jTableP.getColumnModel().getColumn(4).setPreferredWidth(150);
    jTableP.getColumnModel().getColumn(5).setPreferredWidth(350);
}

getContentPane().add(jScrollPane1);
jScrollPane1.setBounds(660, 150, 650, 350);

btnNuevoP.setBackground(new java.awt.Color(202, 223, 251));
btnNuevoP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
btnNuevoP.setForeground(new java.awt.Color(25, 55, 87));
```

```java
btnNuevoP.setText("Nuevo");

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

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

        btnNuevoPActionPerformed(evt);

    }

});

getContentPane().add(btnNuevoP);

btnNuevoP.setBounds(690, 560, 120, 50);


btnGuardarP.setBackground(new java.awt.Color(202, 223, 251));

btnGuardarP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnGuardarP.setForeground(new java.awt.Color(25, 55, 87));

btnGuardarP.setText("Guardar");

btnGuardarP.setEnabled(false);

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

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

        btnGuardarPActionPerformed(evt);

    }

});

getContentPane().add(btnGuardarP);

btnGuardarP.setBounds(840, 560, 120, 50);


btnActualizarP.setBackground(new java.awt.Color(202, 223, 251));

btnActualizarP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnActualizarP.setForeground(new java.awt.Color(25, 55, 87));

btnActualizarP.setText("Actualizar");

btnActualizarP.setEnabled(false);

btnActualizarP.addActionListener(new java.awt.event.ActionListener() {
```

```java
    public void actionPerformed(java.awt.event.ActionEvent evt) {

        btnActualizarPActionPerformed(evt);

    }

});

getContentPane().add(btnActualizarP);

btnActualizarP.setBounds(990, 560, 120, 50);


btnCancelarP.setBackground(new java.awt.Color(202, 223, 251));

btnCancelarP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnCancelarP.setForeground(new java.awt.Color(25, 55, 87));

btnCancelarP.setText("Cancelar");

btnCancelarP.setEnabled(false);

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

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

        btnCancelarPActionPerformed(evt);

    }

});

getContentPane().add(btnCancelarP);

btnCancelarP.setBounds(1140, 560, 120, 50);


btnInicioP.setBackground(new java.awt.Color(202, 223, 251));

btnInicioP.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

btnInicioP.setForeground(new java.awt.Color(25, 55, 87));

btnInicioP.setText("Volver");

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

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

        btnInicioPActionPerformed(evt);

    }
```

```java
    });

    getContentPane().add(btnInicioP);

    btnInicioP.setBounds(1210, 20, 120, 50);


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


private void btnNuevoPActionPerformed(java.awt.event.ActionEvent evt) {

    HabilitarTF();

    btnNuevoP.setEnabled(false);

    btnGuardarP.setEnabled(true);

    btnActualizarP.setEnabled(false);

    btnCancelarP.setEnabled(true);

}


private void btnGuardarPActionPerformed(java.awt.event.ActionEvent evt) {

    if(txtNombreP.getText().isEmpty() || txtCantidadP.getText().isEmpty() ||
txtValUnP.getText().isEmpty() || jtDes.getText().isEmpty()){

        JOptionPane.showMessageDialog(null, "Ningun campo puede quedar
vacio");

    }else{

        GuardarProducto();

        DefaultTableModel modelo = (DefaultTableModel) jTableP.getModel();

        Limpiar();

        DeshabilitarTF();

        btnNuevoP.setEnabled(true);

        btnGuardarP.setEnabled(false);

        btnActualizarP.setEnabled(false);

        btnCancelarP.setEnabled(false);
```

```java
        for( int i = modelo.getRowCount() - 1; i >= 0; i-- ) {

            modelo.removeRow(i);

        }

        InsertarProductosT();

    }

}


    private void btnActualizarPActionPerformed(java.awt.event.ActionEvent evt) {

        if(txtNombreP.getText().isEmpty() || txtCantidadP.getText().isEmpty() ||
txtValUnP.getText().isEmpty() || jtDes.getText().isEmpty()){

            JOptionPane.showMessageDialog(null, "Ningun campo puede quedar
vacio");

        }else{

            ActualizarProducto();

            DefaultTableModel modelo = (DefaultTableModel) jTableP.getModel();

            Limpiar();

            DeshabilitarTF();

            btnNuevoP.setEnabled(true);

            btnGuardarP.setEnabled(false);

            btnActualizarP.setEnabled(false);

            btnCancelarP.setEnabled(false);

            for( int i = modelo.getRowCount() - 1; i >= 0; i-- ) {

                modelo.removeRow(i);

            }

            InsertarProductosT();

        }

    }


    private void btnCancelarPActionPerformed(java.awt.event.ActionEvent evt) {
```

```java
        DeshabilitarTF();

        btnNuevoP.setEnabled(true);

        btnGuardarP.setEnabled(false);

        btnActualizarP.setEnabled(false);

        btnCancelarP.setEnabled(false);

        Limpiar();

    }


    private void btnInicioPActionPerformed(java.awt.event.ActionEvent evt) {

        Administrador ven=new Administrador();

        ven.setVisible(true);

        dispose();

    }


    private void jTablePMouseClicked(java.awt.event.MouseEvent evt) {

        int select = jTableP.getSelectedRow();

        txtIDP.setText(jTableP.getValueAt(select, 0).toString());

        txtNombreP.setText(jTableP.getValueAt(select, 1).toString());

        txtCantidadP.setText(jTableP.getValueAt(select, 2).toString());

        txtValUnP.setText(jTableP.getValueAt(select, 3).toString());

        txtValTotP.setText(jTableP.getValueAt(select, 4).toString());

        jtDes.setText(jTableP.getValueAt(select, 5).toString());

        HabilitarTF();

        btnNuevoP.setEnabled(false);

        btnGuardarP.setEnabled(false);

        btnActualizarP.setEnabled(true);

        btnCancelarP.setEnabled(true);

    }
```

```java
public void HabilitarTF(){

    txtNombreP.setEnabled(true);

    txtCantidadP.setEnabled(true);

    txtValUnP.setEnabled(true);

    jtDes.setEnabled(true);

}

public void DeshabilitarTF(){

    txtIDP.setEnabled(false);

    txtNombreP.setEnabled(false);

    txtCantidadP.setEnabled(false);

    txtValUnP.setEnabled(false);

    txtValTotP.setEnabled(false);

    jtDes.setEnabled(false);

}


public void Limpiar(){

    txtIDP.setText(null);

    txtNombreP.setText(null);

    txtCantidadP.setText(null);

    txtValUnP.setText(null);

    txtValTotP.setText(null);

    jtDes.setText(null);

}


public static void main(String args[]) {

    /* Set the Nimbus look and feel */

    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code
(optional) ">
```

```java
    /* 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(Inventario.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Inventario.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Inventario.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Inventario.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

    }

    //</editor-fold>
```

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


// Variables declaration - do not modify
private javax.swing.JLabel ISlbl;
private javax.swing.JLabel Usuario_lbl3;
private javax.swing.JLabel Usuario_lbl4;
private javax.swing.JLabel Usuario_lbl5;
private javax.swing.JLabel Usuario_lbl6;
private javax.swing.JLabel Usuario_lbl7;
private javax.swing.JLabel Usuario_lbl8;
private javax.swing.JLabel Usuario_lbl9;
private javax.swing.JButton btnActualizarP;
private javax.swing.JButton btnCancelarP;
private javax.swing.JButton btnGuardarP;
private javax.swing.JButton btnInicioP;
private javax.swing.JButton btnNuevoP;
private javax.swing.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTable jTableP;
private javax.swing.JTextArea jtDes;
private javax.swing.JTextField txtCantidadP;
```

```java
private javax.swing.JTextField txtIDP;

private javax.swing.JTextField txtNombreP;

private javax.swing.JTextField txtValTotP;

private javax.swing.JTextField txtValUnP;

// End of variables declaration

}
```

Ventana de Nómina (Interfaz)

```java
import java.awt.Color;

import java.awt.Dimension;

import static java.awt.Frame.MAXIMIZED_BOTH;

import java.awt.Image;

import java.awt.Toolkit;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.time.LocalDateTime;

import java.time.format.DateTimeFormatter;

import javax.swing.ImageIcon;

import javax.swing.JOptionPane;

/**
 * @author limon
 */
public class Nomina1 extends javax.swing.JFrame {

    int salSuel = 0;
```

```java
int totalDed = 0;

int sueldo = 0;

int sueldoRend = 0;

int cuotaExt = 0;

int sueldoNet = 0;


public Nomina1() {

    initComponents();

    Color azul = new Color(62, 95, 138);

    this.setExtendedState(MAXIMIZED_BOTH);

    Toolkit tk = Toolkit.getDefaultToolkit();

    Dimension d = tk.getScreenSize();

    int ancho = (int)d.getWidth();

    int alto = (int)d.getHeight();

    jScrollPane1.setSize(ancho, alto);


    //JButton btnb = new JButton();

    //btnb.setBounds(695,126,40,40);

    ImageIcon imagen1 = new ImageIcon("lupa.png");

    //btnb.setIcon(new
ImageIcon(imagen1.getImage().getScaledInstance(btnb.getWidth(),btnb.getHeight(
), Image.SCALE_SMOOTH)));

    //jPanel1.add(btnb);

    //btnb.setBackground(azul);

    //btnb.setOpaque(false);

    //btnb.setContentAreaFilled(false);

    //btnb.setBorderPainted(false);

    btnbuscar.setBounds(695,126,40,40);
```

```java
        btnbuscar.setIcon(new
ImageIcon(imagen1.getImage().getScaledInstance(btnbuscar.getWidth(),btnbuscar
.getHeight(), Image.SCALE_SMOOTH)));

        btnbuscar.setBackground(azul);

        btnbuscar.setOpaque(false);

        btnbuscar.setBounds(695,126,40,40);

        btnbuscar.setContentAreaFilled(false);

        /**jScrollPane2.setSize(ancho, 1440);*/

        //JTextField txtbuscar = new JTextField("",20);

        txtbuscar.setBounds(90,120,650,50);


        DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy/MM/dd");

        lbl9.setText(String.valueOf(dtf.format(LocalDateTime.now())));




    }


    public void buscar(){

        String datos[] =  new String[5];

        String BD = "jdbc:postgresql://localhost:5432/baluarte";

        String usuario = "postgres";

        String contra = "lumitylover";

        Connection conn = null;


        try {

            Class.forName("org.postgresql.Driver");

            conn = DriverManager.getConnection(BD, usuario, contra);

            //JOptionPane.showMessageDialog(null, "BD conectada con exito");
```

```java
java.sql.Statement st = conn.createStatement();


String sql = "select id_empleado,nombre,nss,curp,salariod FROM
empleado WHERE nombre ='"+ txtbuscar.getText()+"'";
ResultSet res = st.executeQuery(sql);
while(res.next()){
    datos[0]= res.getString("id_empleado");
    datos[1]= res.getString("nombre");
    datos[2]= res.getString("nss");
    datos[3]= res.getString("curp");
    datos[4]= res.getString("salariod");
}
txtid.setText(datos[0]);
txtnombre.setText(datos[1]);
txtnss.setText(datos[2]);
txtcurp.setText(datos[3]);
txtsd.setText(datos[4]);


st.executeUpdate(sql);
conn.close();
st.close();

} catch (Exception e) {
    //JOptionPane.showMessageDialog(null, "Error " + e);
}

try {
    Class.forName("org.postgresql.Driver");
```

```java
        conn = DriverManager.getConnection(BD, usuario, contra);

        //JOptionPane.showMessageDialog(null, "BD conectada con exito");

        java.sql.Statement st = conn.createStatement();


        String sql = "select rendimiento FROM reporte WHERE nomina=false and
id_empleado="+txtid.getText();

        ResultSet res = st.executeQuery(sql);

        while(res.next()){

            datos[0]= res.getString("rendimiento");

        }

        txtren.setText(datos[0]);


        st.executeUpdate(sql);

        conn.close();

        st.close();


    } catch (Exception e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

}


public void Calcular(){

    int bonosP = 0, otrosBon = 0;

    if(!txtbp.getText().isEmpty()){

        bonosP = Integer.parseInt(txtbp.getText());

    }

    if(!txtob.getText().isEmpty()){

        otrosBon = Integer.parseInt(txtob.getText());

    }
```

```java
        salSuel = txtdl.getValue()*Integer.parseInt(txtsd.getText());

        totalDed =
Integer.parseInt(txtisrc.getText())+Integer.parseInt(txtse.getText())+Integer.parseInt
(txtIMSS.getText())+Integer.parseInt(txtod.getText());

        sueldo = salSuel - totalDed;

        sueldoRend = (Integer.parseInt(txtren.getText())*sueldo/100);

        cuotaExt = (txtDiasF.getValue()*txtdl.getValue()*2)+bonosP+otrosBon;

        sueldoNet = sueldoRend+cuotaExt;

    }


    public void GuardarNomina(){

        String BD = "jdbc:postgresql://localhost:5432/baluarte";

        String usuario = "postgres";

        String contra = "lumitylover";

        Connection conn = null;

        try {

            Class.forName("org.postgresql.Driver");

            conn = DriverManager.getConnection(BD, usuario, contra);

            //JOptionPane.showMessageDialog(null, "BD conectada con exito");

            java.sql.Statement st = conn.createStatement();

            String sql = "insert into nomina (id_empleado, dias_laborados, fecha, uma,
sdi, sal_y_suel, isr, subsidio, cuota_imss, otras_deduc, "

                    + "totalpercep, totaldeduc, sueldo, diasfes, bonopunt, otrosbon,
redimiento, cuotaext, sueldorend, sueldoneto)"

                    + "values(" + txtid.getText() + "," + txtdl.getValue() + ",'" +
lbl9.getText() + "'," + txtUMA.getText()

                    + "," + txtSDI.getText() + "," + salSuel + "," + txtisrc.getText() + "," +
txtse.getText() + "," + txtIMSS.getText() + ","

                    + txtod.getText() + "," + salSuel+ "," + totalDed + ","+ sueldo + "," +
txtDiasF.getValue() + ","
```

```
            + txtbp.getText() + "," + txtob.getText() + "," + txtren.getText() + "," +
cuotaExt + "," + sueldoRend + "," + sueldoNet + ")";

        st.executeUpdate(sql);

        conn.close();

        st.close();


    } catch (Exception e) {

        //JOptionPane.showMessageDialog(null, "Error " + e);

    }

    //JOptionPane.showMessageDialog(null, "Se ha guardado con exito");

}


 public void ActNomina(){

    String BD = "jdbc:postgresql://localhost:5432/baluarte";

    String usuario = "postgres";

    String contra = "lumitylover";

    Connection conn = null;

    try {

        Class.forName("org.postgresql.Driver");

        conn = DriverManager.getConnection(BD, usuario, contra);

        //JOptionPane.showMessageDialog(null, "BD conectada con exito");

        java.sql.Statement st = conn.createStatement();

        String sql = "update nomina set pdf = true where
id_empleado="+txtid.getText();

        st.executeUpdate(sql);

        conn.close();

        st.close();


    } catch (Exception e) {
```

```java
        //JOptionPane.showMessageDialog(null, "Error " + e);

    }


}



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

    jScrollPane1 = new javax.swing.JScrollPane();

    jPanel1 = new javax.swing.JPanel();

    jPanel2 = new javax.swing.JPanel();

    jLabel1 = new javax.swing.JLabel();

    btnGenerar = new javax.swing.JButton();

    ISlbl = new javax.swing.JLabel();

    jPanel3 = new javax.swing.JPanel();

    jLabel2 = new javax.swing.JLabel();

    jLabel3 = new javax.swing.JLabel();

    jLabel4 = new javax.swing.JLabel();

    jLabel5 = new javax.swing.JLabel();

    txtnombre = new javax.swing.JTextField();

    jLabel6 = new javax.swing.JLabel();

    txtidn = new javax.swing.JTextField();

    jLabel7 = new javax.swing.JLabel();

    lbl8 = new javax.swing.JLabel();

    txtcurp = new javax.swing.JTextField();

    jLabel9 = new javax.swing.JLabel();
```

```
txtid = new javax.swing.JTextField();

jLabel10 = new javax.swing.JLabel();

txtod = new javax.swing.JTextField();

jLabel11 = new javax.swing.JLabel();

jLabel12 = new javax.swing.JLabel();

txtnss = new javax.swing.JTextField();

txtSDI = new javax.swing.JTextField();

jLabel13 = new javax.swing.JLabel();

jLabel14 = new javax.swing.JLabel();

txtUMA = new javax.swing.JTextField();

jTextField10 = new javax.swing.JTextField();

jTextField11 = new javax.swing.JTextField();

jLabel15 = new javax.swing.JLabel();

jLabel16 = new javax.swing.JLabel();

jLabel17 = new javax.swing.JLabel();

txtsd = new javax.swing.JTextField();

jLabel18 = new javax.swing.JLabel();

jLabel19 = new javax.swing.JLabel();

jLabel20 = new javax.swing.JLabel();

jLabel21 = new javax.swing.JLabel();

jLabel22 = new javax.swing.JLabel();

jLabel23 = new javax.swing.JLabel();

txtsueldo = new javax.swing.JTextField();

txtisrc = new javax.swing.JTextField();

txtse = new javax.swing.JTextField();

txtIMSS = new javax.swing.JTextField();

jTextField17 = new javax.swing.JTextField();

jLabel24 = new javax.swing.JLabel();
```

```java
jLabel25 = new javax.swing.JLabel();

txtss = new javax.swing.JTextField();

txtsn = new javax.swing.JTextField();

jTextField20 = new javax.swing.JTextField();

jLabel26 = new javax.swing.JLabel();

txttd = new javax.swing.JTextField();

jTextField22 = new javax.swing.JTextField();

jLabel27 = new javax.swing.JLabel();

jLabel28 = new javax.swing.JLabel();

lblRend = new javax.swing.JLabel();

jLabel30 = new javax.swing.JLabel();

txtdl = new com.toedter.components.JSpinField();

txttp = new javax.swing.JTextField();

txtren = new javax.swing.JTextField();

jLabel31 = new javax.swing.JLabel();

txtbp = new javax.swing.JTextField();

jTextField26 = new javax.swing.JTextField();

jLabel32 = new javax.swing.JLabel();

txtob = new javax.swing.JTextField();

jLabel33 = new javax.swing.JLabel();

txtce = new javax.swing.JTextField();

jTextField29 = new javax.swing.JTextField();

jTextField30 = new javax.swing.JTextField();

jLabel34 = new javax.swing.JLabel();

txtsr = new javax.swing.JTextField();

lbl9 = new javax.swing.JLabel();

lblRend1 = new javax.swing.JLabel();

txtDiasF = new com.toedter.components.JSpinField();
```

```
jPanel4 = new javax.swing.JPanel();

btnNuevoNom = new javax.swing.JButton();

btnbuscar = new javax.swing.JButton();

txtbuscar = new javax.swing.JTextField();

btnInicioP4 = new javax.swing.JButton();

btnCancelarNom = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

getContentPane().setLayout(null);


jPanel1.setBackground(new java.awt.Color(62, 95, 138));

jPanel1.setPreferredSize(new java.awt.Dimension(1366, 1550));

jPanel1.setLayout(null);


jPanel2.setBackground(new java.awt.Color(106, 156, 222));

jPanel2.setLayout(null);


jLabel1.setFont(new java.awt.Font("Microsoft YaHei", 1, 36)); // NOI18N

jLabel1.setForeground(new java.awt.Color(255, 255, 255));

jLabel1.setText("Recibo de Nómina");

jPanel2.add(jLabel1);

jLabel1.setBounds(340, 10, 340, 40);


jPanel1.add(jPanel2);

jPanel2.setBounds(180, 240, 960, 60);


btnGenerar.setBackground(new java.awt.Color(202, 223, 251));

btnGenerar.setFont(new java.awt.Font("Microsoft YaHei", 0, 36)); // NOI18N
```

```
btnGenerar.setForeground(new java.awt.Color(25, 55, 87));

btnGenerar.setText("GENERAR");

btnGenerar.setEnabled(false);

btnGenerar.setFocusable(false);

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

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

        btnGenerarActionPerformed(evt);

    }

});

jPanel1.add(btnGenerar);

btnGenerar.setBounds(550, 1420, 210, 60);


lSlbl.setFont(new java.awt.Font("Microsoft YaHei", 1, 42)); // NOI18N

lSlbl.setForeground(new java.awt.Color(255, 255, 255));

lSlbl.setText("NÓMINAS");

jPanel1.add(lSlbl);

lSlbl.setBounds(580, 20, 230, 56);


jPanel3.setBackground(new java.awt.Color(202, 223, 251));

jPanel3.setLayout(null);


jLabel2.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel2.setText("Importe");

jPanel3.add(jLabel2);

jLabel2.setBounds(320, 440, 90, 30);


jLabel3.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel3.setText("ID NÓMINA:");
```

```java
jPanel3.add(jLabel3);

jLabel3.setBounds(700, 60, 240, 30);


jLabel4.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel4.setText("Datos de la empresa pagadora:");

jPanel3.add(jLabel4);

jLabel4.setBounds(20, 60, 360, 30);


jLabel5.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel5.setText("Nombre completo:");

jPanel3.add(jLabel5);

jLabel5.setBounds(220, 160, 220, 30);


txtnombre.setFont(new java.awt.Font("Microsoft YaHei", 0, 22)); // NOI18N

txtnombre.setEnabled(false);

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

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

        txtnombreActionPerformed(evt);

    }

});

jPanel3.add(txtnombre);

txtnombre.setBounds(410, 160, 530, 40);


jLabel6.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel6.setText("CURP:");

jPanel3.add(jLabel6);

jLabel6.setBounds(430, 220, 70, 30);
```

```java
txtidn.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtidn.setEnabled(false);

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

jPanel3.add(txtidn);

txtidn.setBounds(860, 60, 80, 40);


jLabel7.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel7.setText("BALUARTE S.A DE C.V");

jPanel3.add(jLabel7);

jLabel7.setBounds(340, 60, 240, 30);


lbl8.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

lbl8.setText("Fecha:");

jPanel3.add(lbl8);

lbl8.setBounds(720, 10, 100, 30);


txtcurp.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtcurp.setEnabled(false);

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

jPanel3.add(txtcurp);
```

```java
txtcurp.setBounds(510, 220, 430, 40);

jLabel9.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
jLabel9.setText("ID:");
jPanel3.add(jLabel9);
jLabel9.setBounds(20, 160, 40, 30);

txtid.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
txtid.setEnabled(false);
txtid.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtidActionPerformed(evt);
    }
});
jPanel3.add(txtid);
txtid.setBounds(70, 160, 100, 40);

jLabel10.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
jLabel10.setText("SD:");
jPanel3.add(jLabel10);
jLabel10.setBounds(20, 360, 70, 30);

txtod.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
txtod.setEnabled(false);
txtod.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtodActionPerformed(evt);
    }
}
```

```
});

jPanel3.add(txtod);

txtod.setBounds(800, 600, 130, 30);


jLabel11.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel11.setText("NSS:");

jPanel3.add(jLabel11);

jLabel11.setBounds(20, 220, 70, 30);


jLabel12.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel12.setText("SDI o SBC:");

jPanel3.add(jLabel12);

jLabel12.setBounds(520, 360, 120, 30);


txtnss.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtnss.setEnabled(false);

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

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

        txtnssActionPerformed(evt);

    }

});

jPanel3.add(txtnss);

txtnss.setBounds(70, 220, 280, 40);


txtSDI.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtSDI.setEnabled(false);

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

    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
        txtSDIActionPerformed(evt);

    }

});

jPanel3.add(txtSDI);

txtSDI.setBounds(770, 350, 170, 40);


jLabel13.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel13.setText("Otras deducciones:");

jPanel3.add(jLabel13);

jLabel13.setBounds(490, 600, 200, 30);


jLabel14.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel14.setText("UMA:");

jPanel3.add(jLabel14);

jLabel14.setBounds(520, 310, 70, 30);


txtUMA.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtUMA.setEnabled(false);

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

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

        txtUMAActionPerformed(evt);

    }

});

jPanel3.add(txtUMA);

txtUMA.setBounds(770, 300, 170, 40);


jTextField10.setEditable(false);

jTextField10.setBackground(new java.awt.Color(155, 155, 155));
```

```java
jTextField10.addActionListener(new java.awt.event.ActionListener() {

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

        jTextField10ActionPerformed(evt);

    }

});

jPanel3.add(jTextField10);

jTextField10.setBounds(20, 420, 920, 5);


jTextField11.setBackground(new java.awt.Color(155, 155, 155));

jTextField11.addActionListener(new java.awt.event.ActionListener() {

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

        jTextField11ActionPerformed(evt);

    }

});

jPanel3.add(jTextField11);

jTextField11.setBounds(470, 420, 5, 305);


jLabel15.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel15.setText("Datos del empleado");

jPanel3.add(jLabel15);

jLabel15.setBounds(20, 110, 360, 30);


jLabel16.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel16.setText("Importe");

jPanel3.add(jLabel16);

jLabel16.setBounds(820, 440, 110, 30);


jLabel17.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
```

```
jLabel17.setText("Días laborados:");

jPanel3.add(jLabel17);

jLabel17.setBounds(20, 300, 170, 30);


txtsd.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtsd.setEnabled(false);

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

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

        txtsdActionPerformed(evt);

    }

});

jPanel3.add(txtsd);

txtsd.setBounds(320, 350, 130, 40);


jLabel18.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel18.setText("SUELDO:");

jPanel3.add(jLabel18);

jLabel18.setBounds(490, 740, 210, 30);


jLabel19.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel19.setText("Deducciones");

jPanel3.add(jLabel19);

jLabel19.setBounds(490, 440, 170, 30);


jLabel20.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel20.setText("Otros bonos:");

jPanel3.add(jLabel20);

jLabel20.setBounds(30, 920, 250, 30);
```

```
jLabel21.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel21.setText("ISR Causado:");

jPanel3.add(jLabel21);

jLabel21.setBounds(490, 480, 140, 30);


jLabel22.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel22.setText("Subsidio al empleo:");

jPanel3.add(jLabel22);

jLabel22.setBounds(490, 520, 200, 30);


jLabel23.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel23.setText("Cuota IMSS:");

jPanel3.add(jLabel23);

jLabel23.setBounds(490, 560, 200, 30);


txtsueldo.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtsueldo.setEnabled(false);

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

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

        txtsueldoActionPerformed(evt);

    }

});

jPanel3.add(txtsueldo);

txtsueldo.setBounds(800, 740, 130, 30);


txtisrc.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtisrc.setEnabled(false);
```

```java
txtisrc.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtisrcActionPerformed(evt);
    }
});
jPanel3.add(txtisrc);
txtisrc.setBounds(800, 480, 130, 30);


txtse.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
txtse.setEnabled(false);
txtse.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtseActionPerformed(evt);
    }
});
jPanel3.add(txtse);
txtse.setBounds(800, 520, 130, 30);


txtIMSS.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
txtIMSS.setEnabled(false);
txtIMSS.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtIMSSActionPerformed(evt);
    }
});
jPanel3.add(txtIMSS);
txtIMSS.setBounds(800, 560, 130, 30);
```

```java
jTextField17.setEditable(false);

jTextField17.setBackground(new java.awt.Color(155, 155, 155));

jTextField17.addActionListener(new java.awt.event.ActionListener() {

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

        jTextField17ActionPerformed(evt);

    }

});

jPanel3.add(jTextField17);

jTextField17.setBounds(20, 650, 920, 5);


jLabel24.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel24.setText("Percepciones");

jPanel3.add(jLabel24);

jLabel24.setBounds(20, 440, 170, 30);


jLabel25.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel25.setText("Rubrica");

jPanel3.add(jLabel25);

jLabel25.setBounds(30, 800, 210, 30);


txtss.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtss.setEnabled(false);

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

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

        txtssActionPerformed(evt);

    }

});

jPanel3.add(txtss);
```

```
txtss.setBounds(320, 480, 130, 30);


txtsn.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtsn.setEnabled(false);

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

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

        txtsnActionPerformed(evt);

    }

});

jPanel3.add(txtsn);

txtsn.setBounds(800, 1050, 130, 30);


jTextField20.setEditable(false);

jTextField20.setBackground(new java.awt.Color(155, 155, 155));

jTextField20.addActionListener(new java.awt.event.ActionListener() {

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

        jTextField20ActionPerformed(evt);

    }

});

jPanel3.add(jTextField20);

jTextField20.setBounds(20, 720, 920, 5);


jLabel26.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel26.setText("Total Deducciones:");

jPanel3.add(jLabel26);

jLabel26.setBounds(490, 670, 210, 30);


txttd.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
```

```
txttd.setEnabled(false);

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

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

        txttdActionPerformed(evt);

    }

});

jPanel3.add(txttd);

txttd.setBounds(800, 670, 130, 30);


jTextField22.setEditable(false);

jTextField22.setBackground(new java.awt.Color(155, 155, 155));

jTextField22.addActionListener(new java.awt.event.ActionListener() {

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

        jTextField22ActionPerformed(evt);

    }

});

jPanel3.add(jTextField22);

jTextField22.setBounds(20, 780, 920, 5);


jLabel27.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel27.setText("Total Percepciones:");

jPanel3.add(jLabel27);

jLabel27.setBounds(30, 670, 210, 30);


jLabel28.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

jLabel28.setText("Salarios y sueldos:");

jPanel3.add(jLabel28);

jLabel28.setBounds(20, 480, 200, 30);
```

```java
lblRend.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
lblRend.setText("%");
jPanel3.add(lblRend);
lblRend.setBounds(790, 840, 250, 30);


jLabel30.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
jLabel30.setText("Bonos de puntualidad:");
jPanel3.add(jLabel30);
jLabel30.setBounds(30, 880, 250, 30);


txtdl.setEnabled(false);
txtdl.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
jPanel3.add(txtdl);
txtdl.setBounds(320, 300, 130, 40);


txttp.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
txttp.setEnabled(false);
txttp.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txttpActionPerformed(evt);
    }
});
jPanel3.add(txttp);
txttp.setBounds(320, 670, 130, 30);


txtren.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
txtren.setEnabled(false);
```

```java
txtren.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtrenActionPerformed(evt);
    }
});
jPanel3.add(txtren);
txtren.setBounds(650, 840, 130, 30);

jLabel31.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N
jLabel31.setText("Sueldo rendimiento:");
jPanel3.add(jLabel31);
jLabel31.setBounds(550, 990, 250, 30);

txtbp.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
txtbp.setEnabled(false);
txtbp.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtbpActionPerformed(evt);
    }
});
jPanel3.add(txtbp);
txtbp.setBounds(310, 880, 130, 30);

jTextField26.setEditable(false);
jTextField26.setBackground(new java.awt.Color(155, 155, 155));
jTextField26.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField26ActionPerformed(evt);
```

```
    }
});
jPanel3.add(jTextField26);
jTextField26.setBounds(20, 970, 920, 5);


jLabel32.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
jLabel32.setText("Días festivos trabajados:");
jPanel3.add(jLabel32);
jLabel32.setBounds(30, 840, 250, 30);


txtob.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
txtob.setEnabled(false);
txtob.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtobActionPerformed(evt);
    }
});
jPanel3.add(txtob);
txtob.setBounds(310, 920, 130, 30);


jLabel33.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N
jLabel33.setText("SUELDO NETO:");
jPanel3.add(jLabel33);
jLabel33.setBounds(550, 1050, 250, 30);


txtce.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N
txtce.setEnabled(false);
txtce.addActionListener(new java.awt.event.ActionListener() {
```

```java
public void actionPerformed(java.awt.event.ActionEvent evt) {

    txtceActionPerformed(evt);

  }

});

jPanel3.add(txtce);

txtce.setBounds(310, 990, 130, 30);


jTextField29.setBackground(new java.awt.Color(155, 155, 155));

jTextField29.addActionListener(new java.awt.event.ActionListener() {

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

    jTextField29ActionPerformed(evt);

  }

});

jPanel3.add(jTextField29);

jTextField29.setBounds(470, 970, 5, 110);


jTextField30.setEditable(false);

jTextField30.setBackground(new java.awt.Color(155, 155, 155));

jTextField30.addActionListener(new java.awt.event.ActionListener() {

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

    jTextField30ActionPerformed(evt);

  }

});

jPanel3.add(jTextField30);

jTextField30.setBounds(20, 1030, 920, 5);


jLabel34.setFont(new java.awt.Font("Microsoft YaHei", 1, 20)); // NOI18N

jLabel34.setText("Cuota extra:");
```

```
jPanel3.add(jLabel34);

jLabel34.setBounds(30, 990, 250, 30);


txtsr.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

txtsr.setEnabled(false);

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

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

        txtsrActionPerformed(evt);

    }

});

jPanel3.add(txtsr);

txtsr.setBounds(800, 990, 130, 30);


lbl9.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

lbl9.setText("DD/MM/AA");

jPanel3.add(lbl9);

lbl9.setBounds(800, 10, 120, 30);


lblRend1.setFont(new java.awt.Font("Microsoft YaHei", 0, 20)); // NOI18N

lblRend1.setText("Rendimiento:");

jPanel3.add(lblRend1);

lblRend1.setBounds(490, 840, 250, 30);


txtDiasF.setEnabled(false);

txtDiasF.setFont(new java.awt.Font("Microsoft YaHei", 0, 14)); // NOI18N

jPanel3.add(txtDiasF);

txtDiasF.setBounds(310, 840, 130, 30);
```

```java
jPanel1.add(jPanel3);

jPanel3.setBounds(180, 310, 960, 1090);


jPanel4.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));


javax.swing.GroupLayout jPanel4Layout = new
javax.swing.GroupLayout(jPanel4);

jPanel4.setLayout(jPanel4Layout);

jPanel4Layout.setHorizontalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGap(0, 504, Short.MAX_VALUE)

);

jPanel4Layout.setVerticalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGap(0, 14, Short.MAX_VALUE)

);


jPanel1.add(jPanel4);

jPanel4.setBounds(570, 750, 510, 20);


btnNuevoNom.setBackground(new java.awt.Color(202, 223, 251));

btnNuevoNom.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); //
NOI18N

btnNuevoNom.setForeground(new java.awt.Color(25, 55, 87));

btnNuevoNom.setText("Nueva");

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

    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```java
        btnNuevoNomActionPerformed(evt);
    }
});
jPanel1.add(btnNuevoNom);
btnNuevoNom.setBounds(850, 120, 120, 50);


btnbuscar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnbuscarActionPerformed(evt);
    }
});
jPanel1.add(btnbuscar);
btnbuscar.setBounds(560, 120, 50, 40);
jPanel1.add(txtbuscar);
txtbuscar.setBounds(470, 120, 140, 40);


btnInicioP4.setBackground(new java.awt.Color(202, 223, 251));
btnInicioP4.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
btnInicioP4.setForeground(new java.awt.Color(25, 55, 87));
btnInicioP4.setText("Volver");
btnInicioP4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnInicioP4ActionPerformed(evt);
    }
});
jPanel1.add(btnInicioP4);
btnInicioP4.setBounds(1190, 30, 120, 50);
```

```java
btnCancelarNom.setBackground(new java.awt.Color(202, 223, 251));

btnCancelarNom.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); //
NOI18N

btnCancelarNom.setForeground(new java.awt.Color(25, 55, 87));

btnCancelarNom.setText("Cancelar");

btnCancelarNom.setEnabled(false);

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

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

        btnCancelarNomActionPerformed(evt);

    }

});

jPanel1.add(btnCancelarNom);

btnCancelarNom.setBounds(1020, 120, 120, 50);


jScrollPane1.setViewportView(jPanel1);


getContentPane().add(jScrollPane1);

jScrollPane1.setBounds(0, 0, 1366, 1500);


pack();

}// </editor-fold>


private void btnGenerarActionPerformed(java.awt.event.ActionEvent evt) {

    if(txtnombre.getText().isEmpty() || txtUMA.getText().isEmpty() ||
txtSDI.getText().isEmpty() || txtisrc.getText().isEmpty() ||

        txtse.getText().isEmpty() || txtIMSS.getText().isEmpty() ||
txtod.getText().isEmpty()){

        JOptionPane.showMessageDialog(null, "Ningun campo puede quedar
vacio");

    }else{
```

```java
        Calcular();

        GuardarNomina();

        DateTimeFormatter dtf = DateTimeFormatter.ofPattern("dd/MM/yyyy");

        String fecha = String.valueOf(dtf.format(LocalDateTime.now()));

        String nombreArch = "Nomina";

        PdfNomina pdf = new PdfNomina(nombreArch,

            fecha,

            "C:\\Users\\diana\\Desktop\\5to Semestre\\Seminario de Ingenieria de
Software I\\Versiones Proyecto\\Baluarte3\\Baluarte3\\EstadosF");


        try {

            pdf.crearPdf(txtid.getText(), txtnombre.getText(), txtcurp.getText(),
txtnss.getText());

            ActNomina();

        } catch (IOException ex) {

            //Logger.getLogger(Nomina1.class.getName()).log(Level.SEVERE, null,
ex);

        }

        Limpiar();

        DeshabilitarTF();

        btnNuevoNom.setEnabled(true);

        btnGenerar.setEnabled(false);

        btnCancelarNom.setEnabled(false);

    }

}


    private void txtnombreActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    }
```

```java
private void txtidnActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtcurpActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtidActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtodActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtnssActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtSDIActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtUMAActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}
```

```java
private void jTextField10ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void jTextField11ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtsdActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtsueldoActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtisrcActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtseActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}


private void txtIMSSActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}
```

```java
private void jTextField17ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}


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


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


private void jTextField20ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}


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


private void jTextField22ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}


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

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


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


private void jTextField26ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}


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


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


private void jTextField29ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}


private void jTextField30ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}
```

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


private void btnNuevoNomActionPerformed(java.awt.event.ActionEvent evt) {
    HabilitarTF();
    DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy/MM/dd");
    lbl9.setText(String.valueOf(dtf.format(LocalDateTime.now())));
    btnCancelarNom.setEnabled(true);
    btnNuevoNom.setEnabled(false);
    btnGenerar.setEnabled(true);
}


private void btnbuscarActionPerformed(java.awt.event.ActionEvent evt) {
    if(txtbuscar.getText().isEmpty()) {
        JOptionPane.showMessageDialog(null, "Inserte un nombre");
    }
    else{
        buscar();
        if(txtid.getText().isEmpty()) {
        JOptionPane.showMessageDialog(null, "Este nombre no existe, ingrese
otro");
    }
    }
    buscar();
    /*txtbuscar.setText(null);

    float sd = Float.parseFloat(txtsd.getText());
```

```java
    int dl = Integer.parseInt(txtdl.getText());


    float res = sd * dl ;


    String ss = Float.toString(res);
    txtss.setText(ss);*/


}


private void btnInicioP4ActionPerformed(java.awt.event.ActionEvent evt) {
    Contador ven=new Contador();
    ven.setVisible(true);
    dispose();
}


private void btnCancelarNomActionPerformed(java.awt.event.ActionEvent evt) {
    DeshabilitarTF();
    Limpiar();
    btnCancelarNom.setEnabled(false);
    btnNuevoNom.setEnabled(true);
    btnGenerar.setEnabled(false);
}
private void btnbActionPerformed(java.awt.event.ActionEvent evt) {
    Administrador ven=new Administrador();
    ven.setVisible(true);
    dispose();
}
```

```java
public void HabilitarTF(){

    txtdl.setEnabled(true);

    txtUMA.setEnabled(true);

    txtSDI.setEnabled(true);

    txtisrc.setEnabled(true);

    txtse.setEnabled(true);

    txtIMSS.setEnabled(true);

    txtod.setEnabled(true);

    txtDiasF.setEnabled(true);

    txtbp.setEnabled(true);

    txtob.setEnabled(true);


}
public void DeshabilitarTF(){

    txtdl.setEnabled(false);

    txtUMA.setEnabled(false);

    txtSDI.setEnabled(false);

    txtisrc.setEnabled(false);

    txtse.setEnabled(false);

    txtIMSS.setEnabled(false);

    txtod.setEnabled(false);

    txtDiasF.setEnabled(false);

    txtbp.setEnabled(false);

    txtob.setEnabled(false);
}

public void Limpiar(){

    txtid.setText(null);
```

```java
            txtnombre.setText(null);

            txtnss.setText(null);

            txtcurp.setText(null);

            txtsd.setText(null);

            txtUMA.setText(null);

            txtSDI.setText(null);

            txtss.setText(null);

            txtisrc.setText(null);

            txtse.setText(null);

            txtIMSS.setText(null);

            txtod.setText(null);

            txttd.setText(null);

            txttp.setText(null);

            txtsueldo.setText(null);

            txtbp.setText(null);

            txtob.setText(null);

            txtren.setText(null);

            txtce.setText(null);

            txtsr.setText(null);

            txtsn.setText(null);

    }


    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.
```

```java
     * 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(Nomina1.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Nomina1.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Nomina1.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Nomina1.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    }
    //</editor-fold>


    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
```

```java
    public void run() {
        new Nomina1().setVisible(true);
    }
  });
}


// Variables declaration - do not modify
private javax.swing.JLabel lSlbl;
private javax.swing.JButton btnCancelarNom;
private javax.swing.JButton btnGenerar;
private javax.swing.JButton btnInicioP4;
private javax.swing.JButton btnNuevoNom;
private javax.swing.JButton btnbuscar;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
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 jLabel17;
private javax.swing.JLabel jLabel18;
private javax.swing.JLabel jLabel19;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel20;
private javax.swing.JLabel jLabel21;
private javax.swing.JLabel jLabel22;
```

```
private javax.swing.JLabel jLabel23;

private javax.swing.JLabel jLabel24;

private javax.swing.JLabel jLabel25;

private javax.swing.JLabel jLabel26;

private javax.swing.JLabel jLabel27;

private javax.swing.JLabel jLabel28;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel30;

private javax.swing.JLabel jLabel31;

private javax.swing.JLabel jLabel32;

private javax.swing.JLabel jLabel33;

private javax.swing.JLabel jLabel34;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel7;

private javax.swing.JLabel jLabel9;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JPanel jPanel3;

private javax.swing.JPanel jPanel4;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTextField jTextField10;

private javax.swing.JTextField jTextField11;

private javax.swing.JTextField jTextField17;

private javax.swing.JTextField jTextField20;

private javax.swing.JTextField jTextField22;

private javax.swing.JTextField jTextField26;
```

```
private javax.swing.JTextField jTextField29;

private javax.swing.JTextField jTextField30;

private javax.swing.JLabel lbl8;

private javax.swing.JLabel lbl9;

private javax.swing.JLabel lblRend;

private javax.swing.JLabel lblRend1;

private com.toedter.components.JSpinField txtDiasF;

private javax.swing.JTextField txtIMSS;

private javax.swing.JTextField txtSDI;

private javax.swing.JTextField txtUMA;

private javax.swing.JTextField txtbp;

private javax.swing.JTextField txtbuscar;

private javax.swing.JTextField txtce;

private javax.swing.JTextField txtcurp;

private com.toedter.components.JSpinField txtdl;

private javax.swing.JTextField txtid;

private javax.swing.JTextField txtidn;

private javax.swing.JTextField txtisrc;

private javax.swing.JTextField txtnombre;

private javax.swing.JTextField txtnss;

private javax.swing.JTextField txtob;

private javax.swing.JTextField txtod;

private javax.swing.JTextField txtren;

private javax.swing.JTextField txtsd;

private javax.swing.JTextField txtse;

private javax.swing.JTextField txtsn;

private javax.swing.JTextField txtsr;

private javax.swing.JTextField txtss;
```

```java
    private javax.swing.JTextField txtsueldo;

    private javax.swing.JTextField txttd;

    private javax.swing.JTextField txttp;

    // End of variables declaration
}
```

Clase para generar pdf de Estado Financiero

```java
import com.itextpdf.text.BaseColor;

import com.itextpdf.text.Chunk;

import com.itextpdf.text.Document;

import com.itextpdf.text.DocumentException;

import com.itextpdf.text.Font;

import com.itextpdf.text.Paragraph;

import com.itextpdf.text.Phrase;

import com.itextpdf.text.pdf.PdfPCell;

import com.itextpdf.text.pdf.PdfPTable;

import com.itextpdf.text.pdf.PdfWriter;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import javax.swing.JOptionPane;


/**
 * @author diana
 */
public class PdfEstadoF {

    String nombreArchivo;
```

```java
String fecha;

String rutaImagen;


Document documento;

FileOutputStream archivo;

Paragraph titulo;

Paragraph espacio;


BaseColor azul1 = new BaseColor(62, 95, 138);

BaseColor azul2 = new BaseColor(87,131,188);

BaseColor azul3 = new BaseColor(106,158,222);

BaseColor azul4 = new BaseColor(160,197,247);

BaseColor azul5 = new BaseColor(220,223,251);

BaseColor azul6 = new BaseColor(232,242,255);


public PdfEstadoF(String nombreArchivo,

        String fecha,

        String rutaImagen)

{

   this.nombreArchivo = nombreArchivo;

   this.fecha = fecha;

   this.rutaImagen = rutaImagen;


   documento = new Document();

   espacio  = new Paragraph(" ");

}


public void crearPdf(int id) throws FileNotFoundException{
```

```java
try {

    archivo = new FileOutputStream(nombreArchivo + ".pdf");

    PdfWriter.getInstance(documento, archivo);

    documento.open();


    PdfPTable inicio = new PdfPTable(1);

    inicio.setWidthPercentage(100);

    Font font = new Font();

    font.setColor(BaseColor.WHITE);

    PdfPCell nombreE = new PdfPCell(new Phrase("BALUARTE S.A DE C.V",
font));

    nombreE.setBorderColor(azul1);

    nombreE.setBackgroundColor(azul1);

    PdfPCell EF = new PdfPCell(new Phrase("Estado Financiero", font));

    EF.setBorderColor(azul3);

    EF.setBackgroundColor(azul3);


    inicio.addCell(nombreE);

    inicio.addCell(EF);

    documento.add(inicio);


    documento.add(Chunk.NEWLINE);

    documento.add(espacio);


    PdfPTable estadoF = new PdfPTable(1);

    estadoF.setWidthPercentage(100);

    PdfPCell Act = new PdfPCell(new Phrase("Activos", font));

    Act.setBorderColor(azul2);

    Act.setBackgroundColor(azul2);
```

```java
estadoF.addCell(Act);

documento.add(estadoF);


PdfPTable activos = new PdfPTable(2);

activos.setWidthPercentage(100);

PdfPCell nom = new PdfPCell(new Phrase("Nombre"));

nom.setBorderColor(azul4);

nom.setBackgroundColor(azul4);

activos.addCell(nom);


PdfPCell mon = new PdfPCell(new Phrase("Monto"));

mon.setBorderColor(azul4);

mon.setBackgroundColor(azul4);

activos.addCell(mon);


String BD = "jdbc:postgresql://localhost:5432/baluarte";

String usuario = "postgres";

String contra = "lumitylover";

Connection conn = null;

int totalActivos = 0;

try {

    Class.forName("org.postgresql.Driver");

    conn = DriverManager.getConnection(BD, usuario, contra);

    java.sql.Statement st = conn.createStatement();


    String sql = "select * from activo_pasivo where id_estadof="+ id+"and
tipo is true";

    ResultSet res = st.executeQuery(sql);
```

```java
    while(res.next()){

        nom = new PdfPCell(new Phrase(res.getString("nombre")));

        nom.setBorderColor(BaseColor.WHITE);

        activos.addCell(nom);

        mon = new PdfPCell(new Phrase(res.getString("monto")));

        mon.setBorderColor(BaseColor.WHITE);

        activos.addCell(mon);

        totalActivos = totalActivos + Integer.parseInt(res.getString("monto"));

    }


    st.executeUpdate(sql);

    conn.close();

    st.close();


} catch (Exception e) {

    //JOptionPane.showMessageDialog(null, "Error " + e);

}

documento.add(activos);


PdfPTable totactivos = new PdfPTable(2);

totactivos.setWidthPercentage(100);

PdfPCell tot = new PdfPCell(new Phrase("Total Activos"));

tot.setBorderColor(azul5);

tot.setBackgroundColor(azul5);

totactivos.addCell(tot);


PdfPCell tot2 = new PdfPCell(new Phrase(String.valueOf(totalActivos)));

tot2.setBorderColor(azul5);
```

```
tot2.setBackgroundColor(azul5);

totactivos.addCell(tot2);


documento.add(totactivos);



//documento.add(new Paragraph("Director: " + nombreArchivo));


documento.add(Chunk.NEWLINE);


PdfPTable estadoF2 = new PdfPTable(1);

estadoF2.setWidthPercentage(100);

PdfPCell Act2 = new PdfPCell(new Phrase("Pasivos", font));

Act2.setBorderColor(azul2);

Act2.setBackgroundColor(azul2);

estadoF2.addCell(Act2);

documento.add(estadoF2);


PdfPTable pasivos = new PdfPTable(2);

pasivos .setWidthPercentage(100);

PdfPCell nom2 = new PdfPCell(new Phrase("Nombre"));

nom2.setBorderColor(azul4);

nom2.setBackgroundColor(azul4);

pasivos.addCell(nom2);


PdfPCell mon2 = new PdfPCell(new Phrase("Monto"));

mon2.setBorderColor(azul4);

mon2.setBackgroundColor(azul4);
```

```java
pasivos .addCell(mon2);


conn = null;
int totalPasivos = 0;
try {
    Class.forName("org.postgresql.Driver");
    conn = DriverManager.getConnection(BD, usuario, contra);
    java.sql.Statement st = conn.createStatement();


    String sql = "select * from activo_pasivo where id_estadof="+ id+"and
tipo is false";
    ResultSet res = st.executeQuery(sql);


    while(res.next()){
        nom2 = new PdfPCell(new Phrase(res.getString("nombre")));
        nom2.setBorderColor(BaseColor.WHITE);
        pasivos.addCell(nom2);
        mon2 = new PdfPCell(new Phrase(res.getString("monto")));
        mon2.setBorderColor(BaseColor.WHITE);
        pasivos.addCell(mon2);
        totalPasivos = totalPasivos + Integer.parseInt(res.getString("monto"));
    }


    st.executeUpdate(sql);
    conn.close();
    st.close();

} catch (Exception e) {
    //JOptionPane.showMessageDialog(null, "Error " + e);
```

```
}
documento.add(pasivos);


PdfPTable totpasivos = new PdfPTable(2);
totpasivos.setWidthPercentage(100);
PdfPCell totp = new PdfPCell(new Phrase("Total Pasivos"));
totp.setBorderColor(azul6);
totp.setBackgroundColor(azul6);
totpasivos.addCell(totp);


PdfPCell totp2 = new PdfPCell(new Phrase(String.valueOf(totalPasivos)));
totp2.setBorderColor(azul6);
totp2.setBackgroundColor(azul6);
totpasivos.addCell(totp2);


documento.add(totpasivos);
documento.add(Chunk.NEWLINE);


PdfPTable invent = new PdfPTable(1);
invent.setWidthPercentage(100);
PdfPCell inv = new PdfPCell(new Phrase("Inventario", font));
inv.setBorderColor(azul2);
inv.setBackgroundColor(azul2);
invent.addCell(inv);
documento.add(invent);


PdfPTable patri = new PdfPTable(2);
patri.setWidthPercentage(100);
```

```java
PdfPCell pat = new PdfPCell(new Phrase("Total Patrimonio Inventario"));

pat.setBorderColor(azul6);

pat.setBackgroundColor(azul6);

patri.addCell(pat);


conn = null;

int totalPatrimonio = 0;

try {

    Class.forName("org.postgresql.Driver");

    conn = DriverManager.getConnection(BD, usuario, contra);

    java.sql.Statement st = conn.createStatement();


    String sql = "select * from producto";

    ResultSet res = st.executeQuery(sql);


    while(res.next()){

        totalPatrimonio = totalPatrimonio +
Integer.parseInt(res.getString("valortotal"));

    }


    st.executeUpdate(sql);

    conn.close();

    st.close();


} catch (Exception e) {

    //JOptionPane.showMessageDialog(null, "Error " + e);

}
```

```
PdfPCell pat2 = new PdfPCell(new
Phrase(String.valueOf(totalPatrimonio)));

        pat2.setBorderColor(azul6);

        pat2.setBackgroundColor(azul6);

        patri.addCell(pat2);


        documento.add(patri);

        documento.add(Chunk.NEWLINE);


        PdfPTable patpas = new PdfPTable(2);

        patpas.setWidthPercentage(100);

        PdfPCell pasp2 = new PdfPCell(new Phrase("Total Pasivo y Patrimonio"));

        pasp2.setBorderColor(azul5);

        pasp2.setBackgroundColor(azul5);

        patpas.addCell(pasp2);


        PdfPCell pasp = new PdfPCell(new
Phrase(String.valueOf(totalPasivos+totalPatrimonio)));

        pasp.setBorderColor(azul5);

        pasp.setBackgroundColor(azul5);

        patpas.addCell(pasp);


        documento.add(patpas);


        documento.add(Chunk.NEWLINE);


        documento.add(new Paragraph("Fecha: " + fecha));


        documento.close();
```

```
        JOptionPane.showMessageDialog(null, "El archivo PDF se a creado
correctamente!");

    } catch(DocumentException e){

        System.err.println(e.getMessage());

    }

  }

}
```

Clase para generar pdf de Nómina

```java
import com.itextpdf.text.BaseColor;

import com.itextpdf.text.Chunk;

import com.itextpdf.text.Document;

import com.itextpdf.text.DocumentException;

import com.itextpdf.text.Font;

import com.itextpdf.text.Paragraph;

import com.itextpdf.text.Phrase;

import com.itextpdf.text.pdf.PdfPCell;

import com.itextpdf.text.pdf.PdfPTable;

import com.itextpdf.text.pdf.PdfWriter;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import javax.swing.JOptionPane;

import java.io.IOException;


/**

 * @author diana
```

```java
 */

public class PdfNomina {

    String nombreArchivo;

    String fecha;

    String rutaImagen;

    int rendimiento;


    Document documento;

    FileOutputStream archivo;

    Paragraph titulo;

    Paragraph espacio;


    BaseColor azul1 = new BaseColor(62, 95, 138);

    BaseColor azul2 = new BaseColor(87,131,188);

    BaseColor azul3 = new BaseColor(106,158,222);

    BaseColor azul4 = new BaseColor(160,197,247);

    BaseColor azul5 = new BaseColor(220,223,251);

    BaseColor azul6 = new BaseColor(232,242,255);


    public PdfNomina(String nombreArchivo,

        String fecha,

        String rutaImagen)

    {

       this.nombreArchivo = nombreArchivo;

       this.fecha = fecha;

       this.rutaImagen = rutaImagen;


       documento = new Document();
```

```java
        espacio  = new Paragraph(" ");

    }


    public void crearPdf(String id, String nombre, String curp, String nss) throws
FileNotFoundException, IOException{
        try {
            archivo = new FileOutputStream(nombreArchivo+"_"+nombre + ".pdf");
            PdfWriter.getInstance(documento, archivo);
            documento.open();


            PdfPTable inicio = new PdfPTable(1);
            inicio.setWidthPercentage(100);
            Font font = new Font();
            font.setColor(BaseColor.WHITE);
            Font font5 = new Font();
            font5.setColor(BaseColor.YELLOW);
            PdfPCell nombreE = new PdfPCell(new Phrase("BALUARTE S.A DE C.V",
font));
            nombreE.setBorderColor(azul1);
            nombreE.setBackgroundColor(azul1);
            PdfPCell EF = new PdfPCell(new Phrase("Recibo de Nómina", font));
            EF.setBorderColor(azul3);
            EF.setBackgroundColor(azul3);

            inicio.addCell(nombreE);
            inicio.addCell(EF);
            documento.add(inicio);


            documento.add(Chunk.NEWLINE);
```

```
documento.add(espacio);


Font font2 = new Font();

font2.setColor(BaseColor.RED);

PdfPTable reporte = new PdfPTable(1);

reporte.setWidthPercentage(100);

PdfPCell Act = new PdfPCell(new Phrase("Datos del empleado: ", font));

Act.setBorderColor(azul2);

Act.setBackgroundColor(azul2);

reporte.addCell(Act);

documento.add(reporte);


PdfPTable reporte2 = new PdfPTable(4);

reporte2.setWidthPercentage(100);


Act = new PdfPCell(new Phrase("ID:"));

Act.setBorderColor(azul4);

Act.setBackgroundColor(azul4);

reporte2.addCell(Act);


Font font3 = new Font();

font3.setColor(BaseColor.BLUE);

Act = new PdfPCell(new Phrase("Nombre: "));

Act.setBorderColor(azul4);

Act.setBackgroundColor(azul4);

reporte2.addCell(Act);


Act = new PdfPCell(new Phrase("NSS:"));
```

```
Act.setBorderColor(azul4);

Act.setBackgroundColor(azul4);

reporte2.addCell(Act);


Act = new PdfPCell(new Phrase("CURP:"));

Act.setBorderColor(azul4);

Act.setBackgroundColor(azul4);

reporte2.addCell(Act);



Act = new PdfPCell(new Phrase(id, font3));

Act.setBorderColor(azul5);

Act.setBackgroundColor(azul5);

reporte2.addCell(Act);


Act = new PdfPCell(new Phrase(nombre, font2));

Act.setBorderColor(azul5);

Act.setBackgroundColor(azul5);

reporte2.addCell(Act);


Act = new PdfPCell(new Phrase(nss, font3));

Act.setBorderColor(azul5);

Act.setBackgroundColor(azul5);

reporte2.addCell(Act);


Act = new PdfPCell(new Phrase(curp, font3));

Act.setBorderColor(azul5);

Act.setBackgroundColor(azul5);
```

```
reporte2.addCell(Act);


documento.add(reporte2);

documento.add(Chunk.NEWLINE);


PdfPTable reporte3 = new PdfPTable(4);

reporte3.setWidthPercentage(100);

String BD = "jdbc:postgresql://localhost:5432/baluarte";

String usuario = "postgres";

String contra = "lumitylover";

Connection conn = null;

try {

    Class.forName("org.postgresql.Driver");

    conn = DriverManager.getConnection(BD, usuario, contra);

    java.sql.Statement st = conn.createStatement();

    String sql = "select * from nomina where id_empleado="+id+"and pdf =
false";

    ResultSet res = st.executeQuery(sql);


    while(res.next()){

    PdfPCell Act5 = new PdfPCell(new Phrase("Dias laborados:"));

    Act5.setBorderColor(azul4);

    Act5.setBackgroundColor(azul4);

    reporte3.addCell(Act5);

    Act5 = new PdfPCell(new Phrase(res.getString("dias_laborados"),
font3));

    Act5.setBorderColor(azul4);

    Act5.setBackgroundColor(azul4);

    reporte3.addCell(Act5);
```

```
Act5 = new PdfPCell(new Phrase("UMA:"));

Act5.setBorderColor(azul4);

Act5.setBackgroundColor(azul4);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("uma"), font3));

Act5.setBorderColor(azul4);

Act5.setBackgroundColor(azul4);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Salario Diario:"));

Act5.setBorderColor(azul4);

Act5.setBackgroundColor(azul4);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("sdi"), font3));

Act5.setBorderColor(azul4);

Act5.setBackgroundColor(azul4);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase("SDI o SBC:"));

Act5.setBorderColor(azul4);

Act5.setBackgroundColor(azul4);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("sdi"), font3));

Act5.setBorderColor(azul4);

Act5.setBackgroundColor(azul4);

reporte3.addCell(Act5);
```

```java
Act5 = new PdfPCell(new Phrase("Percepciones", font));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("Importe", font));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Deducciones", font));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("Importe", font));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Salarios y Sueldos:"));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("sal_y_suel"),
font3));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase("ISR Causado:"));
```

```java
Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("isr"), font3));

Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase(" "));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase(" ", font3));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Subsidio al empleo:"));

Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("subsidio"), font3));

Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase(" "));

Act5.setBorderColor(azul5);
```

```
Act5.setBackgroundColor(azul5);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase(" ", font3));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Cuota IMSS:"));

Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("cuota_imss"),
font3));

Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase(" "));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase(" ", font3));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Otras deducciones:"));

Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);
```

```java
        reporte3.addCell(Act5);

        Act5 = new PdfPCell(new Phrase("$"+res.getString("otras_deduc"),
font3));

        Act5.setBorderColor(azul6);

        Act5.setBackgroundColor(azul6);

        reporte3.addCell(Act5);


        Font font4 = new Font();

        font4.setColor(BaseColor.CYAN);

        Act5 = new PdfPCell(new Phrase("Total Percepciones:", font));

        Act5.setBorderColor(azul2);

        Act5.setBackgroundColor(azul2);

        reporte3.addCell(Act5);

        Act5 = new PdfPCell(new Phrase("$"+res.getString("totalpercep"),
font4));

        Act5.setBorderColor(azul2);

        Act5.setBackgroundColor(azul2);

        reporte3.addCell(Act5);


        Act5 = new PdfPCell(new Phrase("Total Deducciones:", font));

        Act5.setBorderColor(azul2);

        Act5.setBackgroundColor(azul2);

        reporte3.addCell(Act5);

        Act5 = new PdfPCell(new Phrase("$"+res.getString("totaldeduc"),font4));

        Act5.setBorderColor(azul2);

        Act5.setBackgroundColor(azul2);

        reporte3.addCell(Act5);


        Act5 = new PdfPCell(new Phrase(" ", font));
```

```
Act5.setBorderColor(azul1);

Act5.setBackgroundColor(azul1);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase(" ",font4));

Act5.setBorderColor(azul1);

Act5.setBackgroundColor(azul1);

reporte3.addCell(Act5);


Act5 = new PdfPCell(new Phrase("SUELDO:", font));

Act5.setBorderColor(azul1);

Act5.setBackgroundColor(azul1);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("sueldo"),font5));

Act5.setBorderColor(azul1);

Act5.setBackgroundColor(azul1);

reporte3.addCell(Act5);


documento.add(reporte3);

documento.add(Chunk.NEWLINE);

PdfPTable reporte4 = new PdfPTable(4);

reporte4.setWidthPercentage(100);


 Act5 = new PdfPCell(new Phrase("Rúbrica", font));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte4.addCell(Act5);

Act5 = new PdfPCell(new Phrase(" ", font4));

Act5.setBorderColor(azul2);
```

```
Act5.setBackgroundColor(azul2);

reporte4.addCell(Act5);


Act5 = new PdfPCell(new Phrase(" ", font));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte4.addCell(Act5);

Act5 = new PdfPCell(new Phrase(" ",font4));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte4.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Dias festivos trabajados:"));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);

Act5 = new PdfPCell(new Phrase(res.getString("diasfes"), font3));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Rendimiento:"));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);

Act5 = new PdfPCell(new Phrase(res.getString("redimiento")+"%",
font3));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);
```

```
reporte4.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Bonos de puntualidad:"));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("bonopunt"), font3));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);


Act5 = new PdfPCell(new Phrase(" "));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);

Act5 = new PdfPCell(new Phrase(" ", font3));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Otros bonos:"));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("otrosbon"), font3));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);
```

```java
Act5 = new PdfPCell(new Phrase(" "));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);

Act5 = new PdfPCell(new Phrase(" ", font3));

Act5.setBorderColor(azul5);

Act5.setBackgroundColor(azul5);

reporte4.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Cuota extra:", font));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte4.addCell(Act5);

Act5 = new PdfPCell(new Phrase("$"+res.getString("cuotaext"), font4));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte4.addCell(Act5);


Act5 = new PdfPCell(new Phrase("Sueldo rendimiento:", font));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte4.addCell(Act5);

Act5 = new PdfPCell(new
Phrase("$"+res.getString("sueldorend"),font4));

Act5.setBorderColor(azul2);

Act5.setBackgroundColor(azul2);

reporte4.addCell(Act5);
```

```java
        Act5 = new PdfPCell(new Phrase(" ", font));

        Act5.setBorderColor(azul1);

        Act5.setBackgroundColor(azul1);

        reporte4.addCell(Act5);

        Act5 = new PdfPCell(new Phrase(" ",font4));

        Act5.setBorderColor(azul1);

        Act5.setBackgroundColor(azul1);

        reporte4.addCell(Act5);


        Act5 = new PdfPCell(new Phrase("SUELDO NETO:", font));

        Act5.setBorderColor(azul1);

        Act5.setBackgroundColor(azul1);

        reporte4.addCell(Act5);


        Act5 = new PdfPCell(new Phrase("$"+res.getString("sueldoneto"),font5));

        Act5.setBorderColor(azul1);

        Act5.setBackgroundColor(azul1);

        reporte4.addCell(Act5);


        documento.add(reporte4);
        }
        st.executeUpdate(sql);

        conn.close();

        st.close();


} catch (Exception e) {

    //JOptionPane.showMessageDialog(null, "Error " + e);

}
```

```java
        documento.add(Chunk.NEWLINE);

        documento.add(new Paragraph("Fecha: " + fecha));

        documento.close();
        JOptionPane.showMessageDialog(null, "El archivo PDF se a creado
correctamente!");
    } catch(DocumentException e){
        //System.err.println(e.getMessage());
    }
  }
}
```

Clase para generar pdf de Reporte

```java
import com.itextpdf.text.BaseColor;

import com.itextpdf.text.Chunk;

import com.itextpdf.text.Document;

import com.itextpdf.text.DocumentException;

import com.itextpdf.text.Font;

import com.itextpdf.text.Paragraph;

import com.itextpdf.text.Phrase;

import com.itextpdf.text.pdf.PdfPCell;

import com.itextpdf.text.pdf.PdfPTable;

import com.itextpdf.text.pdf.PdfWriter;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.sql.Connection;

import java.sql.DriverManager;
```

```java
import java.sql.ResultSet;

import javax.swing.JOptionPane;

import java.awt.image.BufferedImage;

import java.io.File;

import java.io.IOException;

import com.spire.pdf.PdfDocument;

import javax.imageio.ImageIO;


/**
 * @author diana
 */
public class PdfReporte {
    String nombreArchivo;

    String fecha;

    String rutaImagen;

    int rendimiento;


    Document documento;

    FileOutputStream archivo;

    Paragraph titulo;

    Paragraph espacio;


    BaseColor azul1 = new BaseColor(62, 95, 138);

    BaseColor azul2 = new BaseColor(87,131,188);

    BaseColor azul3 = new BaseColor(106,158,222);

    BaseColor azul4 = new BaseColor(160,197,247);

    BaseColor azul5 = new BaseColor(220,223,251);

    BaseColor azul6 = new BaseColor(232,242,255);
```

```java
public PdfReporte(String nombreArchivo,

    String fecha,

    String rutaImagen)

{

    this.nombreArchivo = nombreArchivo;

    this.fecha = fecha;

    this.rutaImagen = rutaImagen;


    documento = new Document();

    espacio  = new Paragraph(" ");

}


public int crearPdf(String id, String nombre) throws FileNotFoundException,
IOException{

    try {

        archivo = new FileOutputStream(nombreArchivo + ".pdf");

        PdfWriter.getInstance(documento, archivo);

        documento.open();


        PdfPTable inicio = new PdfPTable(1);

        inicio.setWidthPercentage(100);

        Font font = new Font();

        font.setColor(BaseColor.WHITE);

        PdfPCell nombreE = new PdfPCell(new Phrase("BALUARTE S.A DE C.V",
font));

        nombreE.setBorderColor(azul1);

        nombreE.setBackgroundColor(azul1);

        PdfPCell EF = new PdfPCell(new Phrase("Reporte", font));
```

```java
EF.setBorderColor(azul3);

EF.setBackgroundColor(azul3);


inicio.addCell(nombreE);

inicio.addCell(EF);

documento.add(inicio);


documento.add(Chunk.NEWLINE);

documento.add(espacio);


Font font2 = new Font();

font2.setColor(BaseColor.RED);

PdfPTable reporte = new PdfPTable(1);

reporte.setWidthPercentage(100);

PdfPCell Act = new PdfPCell(new Phrase("Nombre del Empleado: ", font));

Act.setBorderColor(azul2);

Act.setBackgroundColor(azul2);

reporte.addCell(Act);

Act = new PdfPCell(new Phrase(nombre, font2));

Act.setBorderColor(azul4);

Act.setBackgroundColor(azul4);

reporte.addCell(Act);

documento.add(reporte);


documento.add(Chunk.NEWLINE);

PdfPTable reporte2 = new PdfPTable(1);

reporte2.setWidthPercentage(100);

PdfPCell Act4 = new PdfPCell(new Phrase("EVALUACIONES", font));
```

```
Act4.setBorderColor(azul2);

Act4.setBackgroundColor(azul2);

reporte2.addCell(Act4);

documento.add(reporte2);


PdfPTable reporte3 = new PdfPTable(4);

reporte3.setWidthPercentage(100);

PdfPCell Act5 = new PdfPCell(new Phrase("Fecha"));

Act5.setBorderColor(azul4);

Act5.setBackgroundColor(azul4);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("Buenas Observaciones"));

Act5.setBorderColor(azul4);

Act5.setBackgroundColor(azul4);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("Malas Observaciones"));

Act5.setBorderColor(azul4);

Act5.setBackgroundColor(azul4);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase("Comentario"));

Act5.setBorderColor(azul4);

Act5.setBackgroundColor(azul4);

reporte3.addCell(Act5);

String BD = "jdbc:postgresql://localhost:5432/baluarte";

String usuario = "postgres";

String contra = "lumitylover";

Connection conn = null;

int totalM = 0, totalB = 0;
```

```java
try {

    Class.forName("org.postgresql.Driver");

    conn = DriverManager.getConnection(BD, usuario, contra);

    java.sql.Statement st = conn.createStatement();


    String sql = "select * from evaluacion where id_empleado="+id+"and
reporte is false";

    ResultSet res = st.executeQuery(sql);


    while(res.next()){

        Act5 = new PdfPCell(new Phrase(res.getString("fecha")));

        Act5.setBorderColor(BaseColor.WHITE);

        reporte3.addCell(Act5);

        Act5 = new PdfPCell(new Phrase(res.getString("buenasobs")));

        Act5.setBorderColor(BaseColor.WHITE);

        reporte3.addCell(Act5);

        Act5 = new PdfPCell(new Phrase(res.getString("malasobs")));

        Act5.setBorderColor(BaseColor.WHITE);

        reporte3.addCell(Act5);

        Act5 = new PdfPCell(new Phrase(res.getString("comentario")));

        Act5.setBorderColor(BaseColor.WHITE);

        reporte3.addCell(Act5);

        totalB = totalB + Integer.parseInt(res.getString("buenasobs"));

        totalM = totalM + Integer.parseInt(res.getString("malasobs"));

    }


    st.executeUpdate(sql);

    conn.close();

    st.close();
```

```java
} catch (Exception e) {

    //JOptionPane.showMessageDialog(null, "Error " + e);

}

Act5 = new PdfPCell(new Phrase("TOTAL"));

Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase(String.valueOf(totalB)));

Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase(String.valueOf(totalM)));

Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);

reporte3.addCell(Act5);

Act5 = new PdfPCell(new Phrase(" "));

Act5.setBorderColor(azul6);

Act5.setBackgroundColor(azul6);

reporte3.addCell(Act5);

documento.add(reporte3);



documento.add(Chunk.NEWLINE);



PdfPTable invent = new PdfPTable(1);

invent.setWidthPercentage(100);

PdfPCell inv = new PdfPCell(new Phrase("RENDIMIENTO", font));
```

```java
        inv.setBorderColor(azul2);

        inv.setBackgroundColor(azul2);

        invent.addCell(inv);

        documento.add(invent);


        rendimiento = 100 - (totalM/2);

        PdfPTable patri = new PdfPTable(1);

        patri.setWidthPercentage(100);

        PdfPCell pat = new PdfPCell(new Phrase(rendimiento+"%"));

        pat.setBorderColor(azul6);

        pat.setBackgroundColor(azul6);

        patri.addCell(pat);


        documento.add(patri);
        documento.add(Chunk.NEWLINE);


        documento.add(Chunk.NEWLINE);


        documento.add(new Paragraph("Fecha: " + fecha));


        documento.close();

        JOptionPane.showMessageDialog(null, "El archivo PDF se a creado
correctamente!");
    } catch(DocumentException e){

        System.err.println(e.getMessage());

    }

    //load the sample PDF

    PdfDocument pdf = new PdfDocument();

    pdf.loadFromFile(nombreArchivo+".pdf");
```

```java
//save every PDF to .png image

BufferedImage image;

for (int i = 0; i < pdf.getPages().getCount(); i++) {

    image = pdf.saveAsImage(i);

    File file = new File( String.format(nombreArchivo+".png", i));

    ImageIO.write(image, "png", file);

}

pdf.close();

return rendimiento;

    }

}
```

Ventana de Recursos Humanos (Interfaz)

```java
import java.awt.Color;

import java.awt.GraphicsDevice;

import java.awt.GraphicsEnvironment;

import java.awt.Image;

import javax.swing.ImageIcon;

import javax.swing.JLabel;



/**

 * @authors Diana Zepeda & Kevin Limón

 */

public class RecursosHumanos extends javax.swing.JFrame {



    public RecursosHumanos() {
```

```java
        initComponents();

        GraphicsDevice Gd =
GraphicsEnvironment.getLocalGraphicsEnvironment().getDefaultScreenDevice();

        int width = Gd.getDisplayMode().getWidth();

        int height = Gd.getDisplayMode().getHeight();

        this.setSize(width,height);

        Color azul = new Color(106, 156, 222); // Color azul

        this.getContentPane().setBackground(azul);

        setExtendedState(MAXIMIZED_BOTH);

         setIconImage(new
ImageIcon(getClass().getResource("Icon.jpeg")).getImage());


        ImageIcon imagen1 = new ImageIcon("Empleado.png");

        JLabel imginv = new JLabel(new ImageIcon("Empleado.png"));

        imginv.setBounds(240,210,200,200);

        imginv.setIcon(new
ImageIcon(imagen1.getImage().getScaledInstance(200,200,
Image.SCALE_SMOOTH)));

        Panel1.add(imginv);


        ImageIcon imagen2 = new ImageIcon("evaluacion.png");

        JLabel imgrep = new JLabel(new ImageIcon("evaluacion.png"));

        imgrep.setBounds(940,210,200,200);

        imgrep.setIcon(new
ImageIcon(imagen2.getImage().getScaledInstance(200,200,
Image.SCALE_SMOOTH)));

        this.add(imgrep);

    }
```

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

    Panel1 = new javax.swing.JPanel();
    Invent = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    Invent1 = new javax.swing.JButton();
    jButton1 = new javax.swing.JButton();
    Invent2 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    Panel1.setBackground(new java.awt.Color(87, 131, 188));

    Invent.setBackground(new java.awt.Color(202, 223, 251));
    Invent.setFont(new java.awt.Font("Microsoft YaHei", 0, 36)); // NOI18N
    Invent.setForeground(new java.awt.Color(25, 55, 87));
    Invent.setText("Empleados");
    Invent.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            InventActionPerformed(evt);
        }
    });

    jLabel1.setFont(new java.awt.Font("Microsoft JhengHei", 1, 48)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel1.setText("ADMINISTRAR EMPLEADOS");


    javax.swing.GroupLayout Panel1Layout = new
javax.swing.GroupLayout(Panel1);

    Panel1.setLayout(Panel1Layout);

    Panel1Layout.setHorizontalGroup(

Panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(Panel1Layout.createSequentialGroup()

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
663, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap())

    .addGroup(Panel1Layout.createSequentialGroup()

        .addGap(193, 193, 193)

        .addComponent(Invent, javax.swing.GroupLayout.PREFERRED_SIZE,
265, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );

    Panel1Layout.setVerticalGroup(

Panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
Panel1Layout.createSequentialGroup()

        .addGap(95, 95, 95)

        .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 352,
Short.MAX_VALUE)
```

```
        .addComponent(Invent, javax.swing.GroupLayout.PREFERRED_SIZE,
69, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(144, 144, 144))
    );


    jLabel2.setFont(new java.awt.Font("Microsoft JhengHei", 1, 48)); // NOI18N
    jLabel2.setForeground(new java.awt.Color(255, 255, 255));
    jLabel2.setText("REGISTRAR EVALUACIONES");


    Invent1.setBackground(new java.awt.Color(202, 223, 251));
    Invent1.setFont(new java.awt.Font("Microsoft YaHei", 0, 36)); // NOI18N
    Invent1.setForeground(new java.awt.Color(25, 55, 87));
    Invent1.setText("Reportes");
    Invent1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            Invent1ActionPerformed(evt);
        }
    });


    jButton1.setBackground(new java.awt.Color(202, 223, 251));
    jButton1.setFont(new java.awt.Font("Microsoft YaHei UI", 0, 15)); // NOI18N
    jButton1.setForeground(new java.awt.Color(25, 55, 87));
    jButton1.setText("Cerrar sesión");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
```

```
Invent2.setBackground(new java.awt.Color(202, 223, 251));

Invent2.setFont(new java.awt.Font("Microsoft YaHei", 0, 36)); // NOI18N

Invent2.setForeground(new java.awt.Color(25, 55, 87));

Invent2.setText("Evaluaciones");

Invent2.addActionListener(new java.awt.event.ActionListener() {

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

        Invent2ActionPerformed(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()

            .addComponent(Panel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 49,
Short.MAX_VALUE)


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

                    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addContainerGap())
```

```
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

            .addComponent(jLabel2)

            .addGap(19, 19, 19))

          .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

            .addComponent(Invent1,
javax.swing.GroupLayout.PREFERRED_SIZE, 265,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(184, 184, 184))))


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

          .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

            .addContainerGap(953, Short.MAX_VALUE)

            .addComponent(Invent2,
javax.swing.GroupLayout.PREFERRED_SIZE, 265,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(182, 182, 182)))
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        .addGap(99, 99, 99)
        .addComponent(jLabel2)


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(Invent1, javax.swing.GroupLayout.PREFERRED_SIZE,
69, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(32, 32, 32)
```

```java
        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addContainerGap())

        .addComponent(Panel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

            .addContainerGap(458, Short.MAX_VALUE)

            .addComponent(Invent2,
javax.swing.GroupLayout.PREFERRED_SIZE, 69,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(198, 198, 198)))
    );


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


private void InventActionPerformed(java.awt.event.ActionEvent evt) {
    Empleado ven=new Empleado();
    ven.setVisible(true);
    dispose();
}


private void Invent1ActionPerformed(java.awt.event.ActionEvent evt) {
    GenerarReporte ven=new GenerarReporte();
    ven.setVisible(true);
    dispose();
```

```java
    }


    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

        Interfaz ven=new Interfaz();

        ven.setVisible(true);

        dispose();

    }


    private void Invent2ActionPerformed(java.awt.event.ActionEvent evt) {

        Evaluacion ven=new Evaluacion();

        ven.setVisible(true);

        dispose();

    }


    /**

     * @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())) {
```

```java
            javax.swing.UIManager.setLookAndFeel(info.getClassName());

            break;

        }

    }

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(RecursosHumanos.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(RecursosHumanos.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(RecursosHumanos.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(RecursosHumanos.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 RecursosHumanos().setVisible(true);

        }

    });

}
```

```java
    // Variables declaration - do not modify

    private javax.swing.JButton Invent;

    private javax.swing.JButton Invent1;

    private javax.swing.JButton Invent2;

    private javax.swing.JPanel Panel1;

    private javax.swing.JButton jButton1;

    private javax.swing.JLabel jLabel1;

    private javax.swing.JLabel jLabel2;

    // End of variables declaration

}
```

Ventana de Reportes (Interfaz)

```java
import static com.itextpdf.text.SpecialSymbol.index;

import java.awt.Color;

import java.awt.GraphicsDevice;

import java.awt.GraphicsEnvironment;

import java.awt.Image;

import java.awt.image.BufferedImage;

import java.io.ByteArrayInputStream;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.util.Iterator;

import javax.imageio.ImageIO;

import javax.imageio.ImageReadParam;

import javax.imageio.ImageReader;

import javax.imageio.stream.ImageInputStream;
```

```java
import javax.swing.Icon;

import javax.swing.ImageIcon;

import javax.swing.table.DefaultTableModel;


/**

 * @authors Diana Zepeda & Kevin Limón

 */

public class Reportes extends javax.swing.JFrame {



    public Reportes() {

        initComponents();

        GraphicsDevice Gd =
GraphicsEnvironment.getLocalGraphicsEnvironment().getDefaultScreenDevice();

        int width = Gd.getDisplayMode().getWidth();

        int height = Gd.getDisplayMode().getHeight();

        this.setSize(width,height);

        Color azul = new Color(62, 95, 138); // Color azul

        this.getContentPane().setBackground(azul);

        setExtendedState(MAXIMIZED_BOTH);

        setIconImage(new
ImageIcon(getClass().getResource("Icon.jpeg")).getImage());


        InsertarReportes();


    }
```

```java
 private Image ConvertirImagen(byte[] bytes) throws IOException {
ByteArrayInputStream bis = new ByteArrayInputStream(bytes);
Iterator readers = ImageIO.getImageReadersByFormatName("png");
ImageReader reader = (ImageReader) readers.next();
Object source = bis;
ImageInputStream iis = ImageIO.createImageInputStream(source);
reader.setInput(iis, true);
ImageReadParam param = reader.getDefaultReadParam();
return reader.read(0, param);
}


public void InsertarReportes(){
    DefaultTableModel modelo = (DefaultTableModel) jTableVer.getModel();
    String BD = "jdbc:postgresql://localhost:5432/baluarte";
    String usuario = "postgres";
    String contra = "lumitylover";
    Connection conn = null;
    Object fila[] = new Object[6];
    byte[] foto;
    try {
        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection(BD, usuario, contra);
        java.sql.Statement st = conn.createStatement();

        String sql = "select * from reporte";
        ResultSet res = st.executeQuery(sql);
```

```java
    while(res.next()){
        fila[0] = res.getString("id_reporte");
        fila[1] = res.getString("nombre");
        fila[2] = res.getString("fecha");
        fila[3] = ConvertirImagen(res.getBytes("archivo"));
        Image archivo = ConvertirImagen(res.getBytes("archivo"));

        modelo.addRow(fila);
    }
    st.executeUpdate(sql);
    conn.close();
    st.close();

} catch (Exception e) {
    //JOptionPane.showMessageDialog(null, "Error " + e);
}
}

public void Imagen(){
String BD = "jdbc:postgresql://localhost:5432/baluarte";
String usuario = "postgres";
String contra = "lumitylover";
Connection conn = null;
Object fila[] = new Object[6];
try {
    Class.forName("org.postgresql.Driver");
    conn = DriverManager.getConnection(BD, usuario, contra);
```

```java
java.sql.Statement st = conn.createStatement();


String sql = "select * from reporte where id_reporte = "+jlide.getText();
ResultSet res = st.executeQuery(sql);


while(res.next()){
   fila[0] = res.getString("id_reporte");
   fila[1] = res.getString("nombre");
   fila[2] = res.getString("fecha");
   fila[3] = ConvertirImagen(res.getBytes("archivo"));
   Image archivo = ConvertirImagen(res.getBytes("archivo"));
//redimensiona imagen
   double alto = archivo.getHeight(null) /
Math.ceil(archivo.getHeight(null)/1000f) ;
   double ancho =archivo.getWidth(null) /
Math.ceil(archivo.getWidth(null)/750f) ;
//ancho, alto
   Icon icon = new ImageIcon(archivo.getScaledInstance(550,900,
Image.SCALE_AREA_AVERAGING) );
   this.foto.setText("");
   this.foto.setIcon( icon );//coloca imagen en el JLabel


}


st.executeUpdate(sql);
conn.close();
st.close();


} catch (Exception e) {
```

```java
        //JOptionPane.showMessageDialog(null, "Error " + e);
    }
}
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    lSlbl = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTableVer = new javax.swing.JTable();
    btnInicioP2 = new javax.swing.JButton();
    foto = new javax.swing.JLabel();
    jlidelbl = new javax.swing.JLabel();
    jlide = new javax.swing.JTextField();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    lSlbl.setFont(new java.awt.Font("Microsoft YaHei", 1, 36)); // NOI18N
    lSlbl.setForeground(new java.awt.Color(255, 255, 255));
    lSlbl.setText("REPORTES");

    jTableVer.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
    jTableVer.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {

        },
        new String [] {
            "ID Reporte", "Empleado", "Fecha"
```

```java
    }
));
jTableVer.setColumnSelectionAllowed(true);
jTableVer.setRowHeight(35);
jTableVer.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTableVerMouseClicked(evt);
    }
});
jScrollPane1.setViewportView(jTableVer);


jTableVer.getColumnModel().getSelectionModel().setSelectionMode(javax.swing.ListSelectionModel.SINGLE_INTERVAL_SELECTION);
    if (jTableVer.getColumnModel().getColumnCount() > 0) {
        jTableVer.getColumnModel().getColumn(0).setPreferredWidth(15);
        jTableVer.getColumnModel().getColumn(1).setPreferredWidth(250);
        jTableVer.getColumnModel().getColumn(2).setPreferredWidth(50);
    }


    btnInicioP2.setBackground(new java.awt.Color(202, 223, 251));
    btnInicioP2.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N
    btnInicioP2.setForeground(new java.awt.Color(25, 55, 87));
    btnInicioP2.setText("Volver");
    btnInicioP2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnInicioP2ActionPerformed(evt);
        }
    });
```

```java
jlidelbl.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jlidelbl.setForeground(new java.awt.Color(255, 255, 255));

jlidelbl.setText("ID Reporte seleccionado");


jlide.setFont(new java.awt.Font("Microsoft YaHei", 0, 18)); // NOI18N

jlide.setEnabled(false);


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(80, 80, 80)

        .addComponent(foto, javax.swing.GroupLayout.PREFERRED_SIZE,
620, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(50, 50, 50)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

            .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 543,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGroup(layout.createSequentialGroup()

                .addGap(10, 10, 10)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

                .addGroup(layout.createSequentialGroup()

                .addComponent(ISlbl,
javax.swing.GroupLayout.PREFERRED_SIZE, 320,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
        .addGap(133, 133, 133)

            .addComponent(btnInicioP2,
javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE))

          .addComponent(jlidelbl,
javax.swing.GroupLayout.PREFERRED_SIZE, 230,
javax.swing.GroupLayout.PREFERRED_SIZE)

              .addGroup(layout.createSequentialGroup()

            .addGap(220, 220, 220)

            .addComponent(jlide,
javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED_SIZE))))))
    );
    layout.setVerticalGroup(

      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

      .addGroup(layout.createSequentialGroup()

        .addGap(40, 40, 40)

        .addComponent(foto, javax.swing.GroupLayout.PREFERRED_SIZE,
860, javax.swing.GroupLayout.PREFERRED_SIZE))

      .addGroup(layout.createSequentialGroup()

        .addGap(57, 57, 57)


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

            .addGroup(layout.createSequentialGroup()

              .addGap(23, 23, 23)

              .addComponent(lSlbl,
javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addComponent(btnInicioP2,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(30, 30, 30)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)

        .addComponent(jlidelbl,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jlide, javax.swing.GroupLayout.PREFERRED_SIZE,
50, javax.swing.GroupLayout.PREFERRED_SIZE))

      .addGap(10, 10, 10)

      .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 373,
javax.swing.GroupLayout.PREFERRED_SIZE))
  );


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


private void btnInicioP2ActionPerformed(java.awt.event.ActionEvent evt) {
  Administrador ven=new Administrador();
  ven.setVisible(true);
  dispose();
}


private void jTableVerMouseClicked(java.awt.event.MouseEvent evt) {
  int select = jTableVer.getSelectedRow();
  jlide.setText(jTableVer.getValueAt(select, 0).toString());
  Imagen();
}


/**
 * @param args the command line arguments
```

```java
     */
    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(Reportes.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Reportes.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Reportes.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);

        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(Reportes.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 Reportes().setVisible(true);

        }

    });

}


    // Variables declaration - do not modify

    private javax.swing.JLabel ISlbl;

    private javax.swing.JButton btnInicioP2;

    private javax.swing.JLabel foto;

    private javax.swing.JScrollPane jScrollPane1;

    private javax.swing.JTable jTableVer;

    private javax.swing.JTextField jlide;

    private javax.swing.JLabel jlidelbl;

    // End of variables declaration

}
```

10. Privilegios de Usuario:

Administrador: El administrador contara con acceso a las ventanas de Inventario y ver reportes

Contador: El contador contara con acceso a las ventanas de Nóminas y Estados Financieros

Recursos Humanos: El empleado de recursos humanos contara con acceso a las ventanas de Empleados, Evaluaciones y hacer reportes