

# **UNIVERSIDAD SABES**

PLANTEL CELAYA

Alberto Iván Hernández García

Matricula: U182053R0001

Código Fuente de

Sabes\_equipo



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## Sabes equipo

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package sabes_equipo;
import java.util.Calendar;

/**
 * @author ivanhg
 */
public class Sabes_equipo {

    /**
    * @param args the command line arguments
    */
    public static void main(String[] args) {
        app mostrar = new app();
        mostrar.setSize(960, 640);
        mostrar.setUocationRelativeTo(null);
    }
}
```



#### herramienta

```
package sabes_equipo;
import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;
* @author ivanhg
public class herramienta {
  private static Connection con;
  Statement st:
  ResultSet rs;
  PreparedStatement ps;
  private static final String DRIVER = "com.mysql.jdbc.Driver";
  private static final String URL = "jdbc:mysql://localhost:3306/Equipo sabes";
  private static final String USERNAME = "root";
  private static final String PASSWORD = "";
  public herramienta() {
    con = null;
    try{
       Class.forName (DRIVER);
       con = DriverManager.getConnection(URL, USERNAME, PASSWORD);
       //Para avanzar con el boton
       st = con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,
ResultSet.CONCUR_READ_ONLY);
       //Aqui termina
       if (con != null){
         //JOptionPane.showMessageDialog(null, "Conexión establecida...");
       }
    } catch (HeadlessException | ClassNotFoundException | SQLException e){
     JOptionPane.showMessageDialog(null, "¡Error de conexión!");
    }
  }
```



```
//Para conectar a BD en otras clases
  public Connection conectar(){
     return con;
  //Para desconectar de BD
  public void desconectar(){
    con = null;
     if (con == null){
          JOptionPane.showMessageDialog(null, "Conexión terminada...");
  }
  public ResultSet consulta(String sql) throws SQLException
{
  try{
     rs = st.executeQuery(sql);
  }catch (SQLException e){
     throw e;
  }
       return rs;
}
}
```



# tb\_profesor

```
package sabes_equipo;
import java.awt.event.KeyEvent:
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.util.ArrayList;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
* @author ivanhg
public class tb_profesor extends javax.swing.JFrame {
 DefaultTableModel modelo = new DefaultTableModel();
 ResultSet consulta:
  public tb profesor() {
    initComponents();
    this.setLocationRelativeTo(null);
    txtid.setVisible(false);
    desactivarNav();
    desactivarCajas();
    btnguardar.setEnabled(false);
    btnmodificar.setEnabled(false);
    btneliminar.setEnabled(false);
    btnlimpiar.setEnabled(false);
    try {
       tblprofesor.setModel(modelo);
       PreparedStatement ps = null;
       ResultSet rs = null;
       herramienta conexion = new herramienta();
       Connection reg = conexion.conectar();
       String sql = "SELECT rfc, nombre, telefono, correo FROM profesor";
       System.out.println(sql);
```



```
ps = reg.prepareStatement(sql);
     rs = ps.executeQuery();
     ResultSetMetaData rsMd = rs.getMetaData():
    int cantidadColumnas = rsMd.getColumnCount();
     modelo.addColumn("RFC");
     modelo.addColumn("Nombre");
     modelo.addColumn("Telefono");
     modelo.addColumn("Correo");
    int[] wide = {100, 200, 50, 150};
    for (int x = 0; x < cantidadColumnas; x++) {
       tblprofesor.getColumnModel().getColumn(x).setPreferredWidth(wide[x]);
    while (rs.next()) {
       Object[] filas = new Object[cantidadColumnas]:
       for (int i = 0; i < cantidadColumnas; i++) {
         filas[i] = rs.getObject(i + 1);
       modelo.addRow(filas);
    }
  } catch (SQLException e) {
     System.err.println(e.toString());
  }
}
int pos = 0;
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {
  jScrollPane1 = new javax.swing.JScrollPane();
  tblprofesor = new javax.swing.JTable();
  btnbuscar = new javax.swing.JButton();
  txtbusqueda_rfc = new javax.swing.JTextField();
  lblrfc = new javax.swing.JLabel();
  btnguardar = new javax.swing.JButton();
  btneliminar = new javax.swing.JButton();
  btnmodificar = new javax.swing.JButton();
```



```
Iblnombre = new javax.swing.JLabel();
     lbltelefono = new javax.swing.JLabel();
     lblcorreo = new javax.swing.JLabel();
     txtnombre = new javax.swing.JTextField():
     txttelefono = new javax.swing.JTextField();
     txtcorreo = new javax.swing.JTextField();
     lblbusqueda rfc = new javax.swing.JLabel();
     txtrfc = new javax.swing.JTextField();
     txtid = new iavax.swing.JTextField():
     btnlimpiar = new javax.swing.JButton();
     btnnext = new javax.swing.JButton();
     btnprev = new javax.swing.JButton();
     btn1st = new javax.swing.JButton();
     btnend = new javax.swing.JButton();
     btninfo = new javax.swing.JButton();
     btnsalir = new javax.swing.JButton();
     btnnuevo = new javax.swing.JButton();
     lbllogo = new javax.swing.JLabel();
     Iblautor = new javax.swing.JLabel();
     lblversion = new javax.swing.JLabel();
     jbtnbackp = new javax.swing.JButton();
     setDefaultCloseOperation(javax.swing.WindowConstants.EXIT ON CLOSE);
     tblprofesor.setModel(new javax.swing.table.DefaultTableModel(
       new Object [][] {
          {null, null, null, null},
          {null, null, null, null},
          {null, null, null, null},
          {null, null, null, null}
       },
       new String [] {
          "RFC", "Nombre", "Telefono", "Correo"
     ) {
       Class[] types = new Class [] {
          java.lang.String.class, java.lang.String.class, java.lang.String.class,
java.lang.String.class
       boolean[] canEdit = new boolean [] {
          false, false, false, false
       };
       public Class getColumnClass(int columnIndex) {
          return types [columnIndex];
       }
       public boolean isCellEditable(int rowIndex, int columnIndex) {
```



```
return canEdit [columnIndex];
       }
     }):
     tblprofesor.addMouseListener(new java.awt.event.MouseAdapter() {
       public void mouseClicked(java.awt.event.MouseEvent evt) {
          tblprofesorMouseClicked(evt);
     });
     tblprofesor.addKevListener(new java.awt.event.KevAdapter() {
       public void keyReleased(java.awt.event.KeyEvent evt) {
          tblprofesorKeyReleased(evt);
       }
     }):
     iScrollPane1.setViewportView(tblprofesor);
     btnbuscar.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/filtro 3.png"))); // NOI18N
     btnbuscar.setText("Filtrar");
     btnbuscar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnbuscarActionPerformed(evt);
     });
     lblrfc.setText("RFC");
     btnguardar.setlcon(new
javax.swing.ImageIcon(getClass().getResource("/img/guardar.png"))); // NOI18N
     btnguardar.setText("Guardar");
     btnguardar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnguardarActionPerformed(evt);
       }
     });
     btneliminar.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/eliminar.png"))); // NOI18N
     btneliminar.setText("Eliminar");
     btneliminar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btneliminarActionPerformed(evt);
     });
     btnmodificar.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/editar.png"))); // NOI18N
     btnmodificar.setText("Modificar");
     btnmodificar.addActionListener(new java.awt.event.ActionListener() {
```



```
public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnmodificarActionPerformed(evt);
     });
     lbInombre.setText("Nombre");
     lbltelefono.setText("Telefono");
     lblcorreo.setText("Correo");
     lblbusqueda_rfc.setText("RFC");
     txtid.setEnabled(false);
     btnlimpiar.setlcon(new
javax.swing.lmagelcon(getClass().getResource("/img/limpiar.png"))); // NOI18N
     btnlimpiar.setText("Limpiar");
     btnlimpiar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnlimpiarActionPerformed(evt);
     });
     btnnext.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/next.png"))); // NOI18N
     btnnext.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnnextActionPerformed(evt);
     });
     btnprev.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/prev.png"))); // NOI18N
     btnprev.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnprevActionPerformed(evt);
       }
     });
     btn1st.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/inicio.png"))); // NOI18N
     btn1st.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btn1stActionPerformed(evt);
     });
```



```
btnend.setIcon(new javax.swing.ImageIcon(getClass().getResource("/img/fin.png")));
// NOI18N
     btnend.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnendActionPerformed(evt);
     });
     btninfo.setIcon(new
javax.swing.Imagelcon(getClass().getResource("/img/info 3.png"))); // NOI18N
     btninfo.setText("info");
     btninfo.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btninfoActionPerformed(evt);
     });
     btnsalir.setIcon(new
javax.swing.Imagelcon(getClass().getResource("/img/salir 3.png"))); // NOI18N
     btnsalir.setText("Salir");
     btnsalir.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnsalirActionPerformed(evt):
       }
     });
     btnnuevo.setlcon(new
javax.swing.ImageIcon(getClass().getResource("/img/nuevo.png"))); // NOI18N
     btnnuevo.setText("Nuevo");
     btnnuevo.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnnuevoActionPerformed(evt);
       }
     });
     Ibllogo.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/sabes 1.png"))); // NOI18N
     Iblautor.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
     lblautor.setText("SABES");
     lblversion.setText("Control de profesores");
     jbtnbackp.setlcon(new
javax.swing.Imagelcon(getClass().getResource("/img/back_32.png"))); // NOI18N
     ibtnbackp.setText("Atras");
     jbtnbackp.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
```



```
jbtnbackpActionPerformed(evt);
      }
    });
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(lavout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
           .addGroup(layout.createSequentialGroup()
             .addGap(26, 26, 26)
             .addComponent(lbllogo)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(lblversion)
                .addComponent(lblautor, javax.swing.GroupLayout.PREFERRED_SIZE,
167, javax.swing.GroupLayout.PREFERRED SIZE)))
           .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
             .addGap(15, 15, 15)
             .addComponent(iScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 540,
javax.swing.GroupLayout.PREFERRED SIZE))
           .addGroup(layout.createSequentialGroup()
             .addGap(20, 20, 20)
             .addComponent(lblbusqueda rfc)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
             .addComponent(txtbusqueda rfc,
javax.swing.GroupLayout.PREFERRED_SIZE, 417,
javax.swing.GroupLayout.PREFERRED SIZE)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
              .addComponent(btnbuscar)))
         .addGap(35, 35, 35)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
           .addGroup(layout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(lblcorreo)
                .addComponent(btnnuevo))
```



.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(btnguardar)

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

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

 $. add Component (jbtnbackp, javax.swing. Group Layout. DEFAULT\_SIZE,$ 

javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(btnmodificar,

javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

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

.addComponent(btneliminar)

.addComponent(btnlimpiar)))

.addGroup(layout.createSequentialGroup()

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

.addComponent(lbltelefono)

.addComponent(lbInombre)

.addComponent(lblrfc))

.addGap(26, 26, 26)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

.addGroup(layout.createSequentialGroup()

.addComponent(txtid, javax.swing.GroupLayout.PREFERRED\_SIZE,

102, javax.swing.GroupLayout.PREFERRED\_SIZE)

. add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED,

javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(btninfo)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(btnsalir))

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

.addComponent(txtrfc, javax.swing.GroupLayout.PREFERRED\_SIZE,

334, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(txtnombre,

javax.swing.GroupLayout.PREFERRED\_SIZE, 334,

javax.swing.GroupLayout.PREFERRED\_SIZE)



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```
.addComponent(txtcorreo,
javax.swing.GroupLayout.PREFERRED_SIZE, 334,
javax.swing.GroupLayout.PREFERRED SIZE)
                  .addComponent(txttelefono,
javax.swing.GroupLayout.PREFERRED_SIZE, 334,
javax.swing.GroupLayout.PREFERRED SIZE)
                  .addGroup(layout.createSequentialGroup()
                    .addComponent(btn1st)
                    .addGap(18, 18, 18)
                    .addComponent(btnprev)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(btnnext)
                    .addGap(18, 18, 18)
                    .addComponent(btnend))))))
         .addGap(0, 19, Short.MAX VALUE))
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(layout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
           .addGroup(layout.createSequentialGroup()
             .addGap(16, 16, 16)
              .addComponent(lbllogo))
           .addGroup(layout.createSequentialGroup()
              .addGap(27, 27, 27)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                .addComponent(lblautor)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                  .addComponent(txtid, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(btnsalir)
                  .addComponent(btninfo)))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
              .addComponent(lblversion)))
         .addGap(26, 26, 26)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
           .addComponent(btnbuscar)
           .addComponent(lblbusqueda_rfc)
           .addComponent(txtbusqueda rfc,
javax.swing.GroupLayout.PREFERRED SIZE,
```



javax.swing.GroupLayout.DEFAULT\_SIZE,

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```
javax.swing.GroupLayout.PREFERRED_SIZE))
         .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
           .addGroup(layout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(lblrfc)
                .addComponent(txtrfc, javax.swing.GroupLayout.PREFERRED_SIZE,
26, javax.swing.GroupLayout.PREFERRED_SIZE))
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(lblnombre)
                .addComponent(txtnombre,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED SIZE))
             .addGap(22, 22, 22)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(lbltelefono)
               .addComponent(txttelefono,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(lblcorreo)
                .addComponent(txtcorreo,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(btnprev)
                .addComponent(btn1st)
                .addComponent(btnend)
                .addComponent(btnnext))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 81,
Short.MAX_VALUE)
```

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

.addComponent(btnnuevo)



```
.addComponent(btnguardar)
                .addComponent(btnmodificar)
                .addComponent(btneliminar)))
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
0, Short.MAX_VALUE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(btnlimpiar)
            .addComponent(jbtnbackp))
         .addGap(19, 19, 19))
    );
    pack();
  }// </editor-fold>
  private void btnbuscarActionPerformed(java.awt.event.ActionEvent evt) {
    String rfc = txtbusqueda_rfc.getText();
    String where = "";
    if (!"".equals(rfc)) {
      where = " WHERE rfc = "" + rfc + """;
    }
    try {
       DefaultTableModel modelo = new DefaultTableModel();
      tblprofesor.setModel(modelo);
       PreparedStatement ps = null;
       ResultSet rs = null;
       herramienta conexion = new herramienta();
       Connection reg = conexion.conectar();
       String sql = "SELECT rfc, nombre, telefono, correo FROM profesor" + where;
       System.out.println(sql);
       ps = reg.prepareStatement(sql);
       rs = ps.executeQuery();
       ResultSetMetaData rsMd = rs.getMetaData();
      int cantidadColumnas = rsMd.getColumnCount();
       modelo.addColumn("RFC");
       modelo.addColumn("Nombre");
       modelo.addColumn("Telefono");
       modelo.addColumn("Correo");
      int[] wide = {100, 200, 50, 150};
```



```
for (int x = 0; x < cantidadColumnas; x++) {
          tblprofesor.getColumnModel().getColumn(x).setPreferredWidth(wide[x]);
       while (rs.next()) {
          Object[] filas = new Object[cantidadColumnas];
          for (int i = 0; i < cantidadColumnas; i++) {
            filas[i] = rs.getObject(i + 1);
          }
          modelo.addRow(filas);
       }
     } catch (Exception e) {
       System.out.println(e);
       JOptionPane.showMessageDialog(null, "Error");
     }
     limpiar();
  private void btnguardarActionPerformed(java.awt.event.ActionEvent evt) {
     PreparedStatement ps = null;
     if (txtrfc.getText().isEmpty() || txtnombre.getText().isEmpty() ||
txttelefono.getText().isEmpty() || txtcorreo.getText().isEmpty()) {
       JOptionPane.showMessageDialog(null, "Favor de llenar todos los campos...");
     } else {
       try {
          herramienta conexion = new herramienta():
          com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
          ps = reg.prepareStatement("INSERT INTO profesor (rfc, nombre, telefono,
correo) VALUES (?,?,?,?)");
          ps.setString(1, txtrfc.getText());
          ps.setString(2, txtnombre.getText());
          ps.setString(3, txttelefono.getText());
          ps.setString(4, txtcorreo.getText());
          ps.execute();
          JOptionPane.showMessageDialog(null, "Profesor Guardado");
          Object[] fila = new Object[4];
          fila[0] = txtrfc.getText();
          fila[1] = txtnombre.getText();
```



```
fila[2] = txttelefono.getText();
          fila[3] = txtcorreo.getText();
          modelo.addRow(fila);
          limpiar();
       } catch (SQLException e) {
          System.out.println(e);
       }
       btnguardar.setEnabled(false);
       btnlimpiar.setEnabled(false);
       actualizarbd():
       desactivarCajas();
     }
  }
  private void btnmodificarActionPerformed(java.awt.event.ActionEvent evt) {
     int Fila = tblprofesor.getSelectedRow();
     PreparedStatement ps = null;
     if (txtrfc.getText().isEmpty() || txtnombre.getText().isEmpty() ||
txttelefono.getText().isEmpty() || txtcorreo.getText().isEmpty()) {
       JOptionPane.showMessageDialog(null, "Favor de llenar todos los campos...");
     } else {
       try {
          herramienta conexion = new herramienta();
          com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
          ps = reg.prepareStatement("UPDATE profesor SET rfc=?, nombre=?,
telefono=?, correo=? WHERE id_prof=?");
          ps.setString(1, txtrfc.getText());
          ps.setString(2, txtnombre.getText());
          ps.setString(3, txttelefono.getText());
          ps.setString(4, txtcorreo.getText());
          ps.setString(5, txtid.getText());
          ps.execute();
          JOptionPane.showMessageDialog(null, "Profesor Modificado");
          tblprofesor.setValueAt(txtrfc.getText(), Fila, 0);
          tblprofesor.setValueAt(txtnombre.getText(), Fila, 1);
          tblprofesor.setValueAt(txttelefono.getText(), Fila, 2);
```



```
tblprofesor.setValueAt(txtcorreo.getText(), Fila, 3);
         limpiar();
       } catch (SQLException e) {
         System.out.println(e);
         JOptionPane.showMessageDialog(null, "Error al Modificar Profesor");
         desactivarCajas();
       btnmodificar.setEnabled(false);
       btneliminar.setEnabled(false);
       btnlimpiar.setEnabled(false);
    }
  }
  private void btneliminarActionPerformed(java.awt.event.ActionEvent evt) {
    PreparedStatement ps = null;
    try {
       herramienta conexion = new herramienta();
       com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
       int Fila = tblprofesor.getSelectedRow();
       String rfc = tblprofesor.getValueAt(Fila, 0).toString();
       ps = reg.prepareStatement("DELETE FROM profesor WHERE id prof=?");
       //Para eliminar desde columna
       //ps.setString(1, rfc);
       ps.setString(1, txtid.getText());
       ps.execute();
       modelo.removeRow(Fila);
       JOptionPane.showMessageDialog(null, "Profesor Eliminado");
       limpiar();
    } catch (SQLException e) {
       System.out.println(e.toString());
       JOptionPane.showMessageDialog(null, "Error al Eliminar Profesor");
    btnmodificar.setEnabled(false);
    btneliminar.setEnabled(false);
    btnlimpiar.setEnabled(false);
    actualizarbd();
```



```
desactivarCajas();
  }
  private void tblprofesorMouseClicked(java.awt.event.MouseEvent evt) {
     PreparedStatement ps = null;
     ResultSet rs = null;
    try {
       herramienta conexion = new herramienta();
       com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
       int Fila = tblprofesor.getSelectedRow();
       String rfc = tblprofesor.getValueAt(Fila, 0).toString();
       ps = reg.prepareStatement("SELECT id_prof, rfc, nombre, telefono, correo FROM
profesor WHERE rfc=?");
       ps.setString(1, rfc);
       rs = ps.executeQuery();
       while (rs.next()) {
          txtid.setText(rs.getString("id_prof"));
          txtrfc.setText(rs.getString("RFC"));
          txtnombre.setText(rs.getString("nombre"));
          txttelefono.setText(rs.getString("telefono"));
          txtcorreo.setText(rs.getString("correo"));
    } catch (SQLException e) {
       System.out.println(e.toString());
    }
    desactivarNav();
     activarCajas():
    btnguardar.setEnabled(false);
    btnmodificar.setEnabled(true);
    btneliminar.setEnabled(true);
    btnlimpiar.setEnabled(true);
  }
  public void muestra(ResultSet consulta) throws SQLException {
    txtid.setText(consulta.getString(1));
    txtrfc.setText(consulta.getString(2));
    txtnombre.setText(consulta.getString(3));
    txttelefono.setText(consulta.getString(4));
    txtcorreo.setText(consulta.getString(5));
  }
  private void btnlimpiarActionPerformed(java.awt.event.ActionEvent evt) {
```



```
limpiar();
    btnguardar.setEnabled(false);
    btnmodificar.setEnabled(false);
    btneliminar.setEnabled(false):
    desactivarNav();
    desactivarCajas();
    btnlimpiar.setEnabled(false);
  }
  private void btnnextActionPerformed(java.awt.event.ActionEvent evt) {
    try {
       consulta.next();
       muestra(consulta);
    } catch (Exception e) {
       System.out.println(e);
    desactivarCajas():
    btnguardar.setEnabled(false);
  private void tblprofesorKeyReleased(java.awt.event.KeyEvent evt) {
    if (evt.getKeyCode() == KeyEvent.VK DOWN || (evt.getKeyCode() ==
KeyEvent.VK_UP)) {
       PreparedStatement ps = null;
       ResultSet rs = null;
       try {
          herramienta conexion = new herramienta();
          com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
          int Fila = tblprofesor.getSelectedRow();
          String rfc = tblprofesor.getValueAt(Fila, 0).toString();
          ps = reg.prepareStatement("SELECT id_prof, rfc, nombre, telefono, correo
FROM profesor WHERE rfc=?");
          ps.setString(1, rfc);
          rs = ps.executeQuery();
          while (rs.next()) {
            txtid.setText(rs.getString("id_prof"));
            txtrfc.setText(rs.getString("RFC"));
            txtnombre.setText(rs.getString("nombre"));
            txttelefono.setText(rs.getString("telefono"));
```



```
txtcorreo.setText(rs.getString("correo"));
    } catch (SQLException e) {
       System.out.println(e.toString());
    desactivarNav();
    activarCajas();
    btnguardar.setEnabled(false);
    btnmodificar.setEnabled(true);
    btneliminar.setEnabled(true);
    btnlimpiar.setEnabled(true);
  }
}
private void btn1stActionPerformed(java.awt.event.ActionEvent evt) {
  try {
    herramienta conn = new herramienta();
     String cons = "SELECT * FROM profesor";
    consulta = conn.consulta(cons);
    consulta.first();
    muestra(consulta);
  } catch (Exception e) {
     System.out.println(e);
  }
  activarNav();
  desactivarCajas():
  btnguardar.setEnabled(false);
  btnmodificar.setEnabled(false);
  btneliminar.setEnabled(false);
private void btnsalirActionPerformed(java.awt.event.ActionEvent evt) {
  dispose();
private void btninfoActionPerformed(java.awt.event.ActionEvent evt) {
   JOptionPane.showMessageDialog(null, "¿Qué hay de nuevo?\n"
       + "Opción de filtrar por RFC.");
}
private void btnnuevoActionPerformed(java.awt.event.ActionEvent evt) {
```



```
limpiar();
  btnguardar.setEnabled(true);
  activarCajas():
  btnmodificar.setEnabled(false);
  btneliminar.setEnabled(false);
  btnlimpiar.setEnabled(true);
}
private void btnprevActionPerformed(java.awt.event.ActionEvent evt) {
  try {
     consulta.previous();
     muestra(consulta);
  } catch (Exception e) {
     System.out.println(e);
  desactivarCajas();
  btnguardar.setEnabled(false);
private void btnendActionPerformed(java.awt.event.ActionEvent evt) {
  try {
     consulta.last();
     muestra(consulta);
  } catch (Exception e) {
     System.out.println(e);
  desactivarCajas();
  btnguardar.setEnabled(false);
private void jbtnbackpActionPerformed(java.awt.event.ActionEvent evt) {
  Administrador mostraradministrador = new Administrador ();
  mostraradministrador.setSize(960, 640);
  mostraradministrador.setVisible(true);
  mostraradministrador.setLocationRelativeTo(null);
  dispose();
}
private void limpiar() {
  txtid.setText("");
  txtrfc.setText("");
  txtnombre.setText("");
  txttelefono.setText("");
  txtcorreo.setText("");
}
```



```
private void desactivarNav() {
  btnnext.setEnabled(false):
  btnprev.setEnabled(false);
  btnend.setEnabled(false);
}
private void activarNav() {
  btnnext.setEnabled(true);
  btnprev.setEnabled(true);
  btnend.setEnabled(true);
}
private void activarCajas() {
  txtrfc.setEnabled(true);
  txtnombre.setEnabled(true);
  txttelefono.setEnabled(true);
  txtcorreo.setEnabled(true);
}
private void desactivarCajas() {
  txtrfc.setEnabled(false);
  txtnombre.setEnabled(false);
  txttelefono.setEnabled(false);
  txtcorreo.setEnabled(false);
}
private void actualizarbd() {
  try {
     DefaultTableModel modelo = new DefaultTableModel();
     tblprofesor.setModel(modelo);
     PreparedStatement ps = null;
     ResultSet rs = null:
     herramienta conexion = new herramienta();
     Connection reg = conexion.conectar();
     String sql = "SELECT rfc, nombre, telefono, correo FROM profesor";
     System.out.println(sql);
     ps = reg.prepareStatement(sql);
     rs = ps.executeQuery();
     ResultSetMetaData rsMd = rs.getMetaData();
    int cantidadColumnas = rsMd.getColumnCount();
     modelo.addColumn("RFC");
     modelo.addColumn("Nombre");
     modelo.addColumn("Telefono");
     modelo.addColumn("Correo");
```



```
int[] wide = {100, 200, 50, 150};
       for (int x = 0; x < cantidadColumnas; x++) {
          tblprofesor.getColumnModel().getColumn(x).setPreferredWidth(wide[x]);
       while (rs.next()) {
          Object[] filas = new Object[cantidadColumnas];
          for (int i = 0; i < cantidadColumnas; i++) {
            filas[i] = rs.getObject(i + 1);
          modelo.addRow(filas);
       }
     } catch (Exception e) {
       System.out.println(e);
       JOptionPane.showMessageDialog(null, "Error");
    }
  /**
   * @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 ("Windows".equals(info.getName())) {
            javax.swing.UIManager.setLookAndFeel(info.getClassName());
            break:
          }
     } catch (ClassNotFoundException ex) {
java.util.logging.Logger.getLogger(tb_profesor.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
     } catch (InstantiationException ex) {
```



```
java.util.logging.Logger.getLogger(tb_profesor.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
     } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(tb_profesor.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
     } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(tb_profesor.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 tb_profesor().setVisible(true);
     });
  }
  // Variables declaration - do not modify
  private javax.swing.JButton btn1st;
  private javax.swing.JButton btnbuscar;
  private javax.swing.JButton btneliminar;
  private javax.swing.JButton btnend;
  private javax.swing.JButton btnguardar;
  private javax.swing.JButton btninfo;
  private javax.swing.JButton btnlimpiar;
  private javax.swing.JButton btnmodificar;
  private javax.swing.JButton btnnext;
  private javax.swing.JButton btnnuevo:
  private javax.swing.JButton btnprev;
  private javax.swing.JButton btnsalir;
  private javax.swing.JScrollPane jScrollPane1;
  private javax.swing.JButton jbtnbackp;
  private javax.swing.JLabel lblautor;
  private javax.swing.JLabel lblbusqueda rfc;
  private javax.swing.JLabel lblcorreo;
  private javax.swing.JLabel lbllogo;
  private javax.swing.JLabel lblnombre;
  private javax.swing.JLabel lblrfc;
  private javax.swing.JLabel lbltelefono;
  private javax.swing.JLabel lblversion;
  private javax.swing.JTable tblprofesor;
  private javax.swing.JTextField txtbusqueda rfc:
  private javax.swing.JTextField txtcorreo;
```



private javax.swing.JTextField txtid; private javax.swing.JTextField txtnombre; private javax.swing.JTextField txtrfc; private javax.swing.JTextField txttelefono; // End of variables declaration

}



## tb equipo

```
package sabes_equipo;
import java.awt.event.KeyEvent:
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import javax.swing.JOptionPane:
import javax.swing.table.DefaultTableModel;
* @author ivanhg
public class tb_equipo extends javax.swing.JFrame {
  DefaultTableModel modelo = new DefaultTableModel();
  ResultSet consulta;
  public tb_equipo() {
    initComponents();
    this.setLocationRelativeTo(null);
    txtid.setVisible(false):
    desactivarNav();
    desactivarCajas();
    btnguardar.setEnabled(false);
    btnmodificar.setEnabled(false);
    btneliminar.setEnabled(false);
    btnlimpiar.setEnabled(false);
    try {
       tblequipo.setModel(modelo);
       PreparedStatement ps = null;
       ResultSet rs = null;
       herramienta conexion = new herramienta():
       Connection reg = conexion.conectar();
       String sql = "SELECT serie, tipo, marca, modelo, color FROM equipo";
       System.out.println(sql):
       ps = reg.prepareStatement(sql);
```



```
rs = ps.executeQuery();
     ResultSetMetaData rsMd = rs.getMetaData():
    int cantidadColumnas = rsMd.getColumnCount();
     modelo.addColumn("Serie");
    modelo.addColumn("Tipo");
     modelo.addColumn("Marca");
    modelo.addColumn("Modelo");
    modelo.addColumn("Color");
    int[] wide = {150, 100, 100, 150, 100};
    for (int x = 0; x < cantidadColumnas; x++) {
       tblequipo.getColumnModel().getColumn(x).setPreferredWidth(wide[x]);
    while (rs.next()) {
       Object[] filas = new Object[cantidadColumnas]:
       for (int i = 0; i < cantidadColumnas; i++) {
          filas[i] = rs.getObject(i + 1);
       modelo.addRow(filas);
    }
  } catch (SQLException e) {
     System.err.println(e.toString());
  }
}
private void limpiar() {
  txtid.setText("");
  txtserie.setText("");
  cboxtipo.setSelectedIndex(0);
  txtmarca.setText("");
  txtmodelo.setText("");
  txtcolor.setText("");
}
private void desactivarNav() {
  btnnext.setEnabled(false);
  btnprev.setEnabled(false);
```



```
btnend.setEnabled(false);
}
private void activarNav() {
  btnnext.setEnabled(true);
  btnprev.setEnabled(true);
  btnend.setEnabled(true);
}
private void activarCajas() {
  txtserie.setEnabled(true);
  cboxtipo.setEnabled(true);
  txtmarca.setEnabled(true);
  txtmodelo.setEnabled(true);
  txtcolor.setEnabled(true);
}
private void desactivarCajas() {
  txtserie.setEnabled(false);
  cboxtipo.setEnabled(false);
  txtmarca.setEnabled(false);
  txtmodelo.setEnabled(false);
  txtcolor.setEnabled(false);
}
  public void muestra(ResultSet consulta) throws SQLException {
  txtid.setText(consulta.getString(1));
  txtserie.setText(consulta.getString(2));
  cboxtipo.setSelectedItem(consulta.getString(3));
  txtmarca.setText(consulta.getString(4));
  txtmodelo.setText(consulta.getString(5));
  txtcolor.setText(consulta.getString(6));
}
private void actualizarbd() {
  try {
     DefaultTableModel modelo = new DefaultTableModel();
    tblequipo.setModel(modelo);
     PreparedStatement ps = null;
     ResultSet rs = null:
    herramienta conexion = new herramienta();
     Connection reg = conexion.conectar();
    String sql = "SELECT serie, tipo, marca, modelo, color FROM equipo";
     System.out.println(sql);
    ps = reg.prepareStatement(sql);
     rs = ps.executeQuery();
```



```
ResultSetMetaData rsMd = rs.getMetaData();
    int cantidadColumnas = rsMd.getColumnCount();
     modelo.addColumn("Serie");
     modelo.addColumn("Tipo");
    modelo.addColumn("Marca");
     modelo.addColumn("Modelo");
     modelo.addColumn("Color");
    int[] wide = {150, 100, 100, 150, 100};
    for (int x = 0; x < cantidadColumnas; x++) {
       tblequipo.getColumnModel().getColumn(x).setPreferredWidth(wide[x]);
    while (rs.next()) {
       Object[] filas = new Object[cantidadColumnas];
       for (int i = 0; i < cantidadColumnas; i++) {
         filas[i] = rs.getObject(i + 1);
       }
       modelo.addRow(filas);
    }
  } catch (SQLException e) {
     System.err.println(e.toString());
  }
}
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {
  ¡ScrollPane1 = new javax.swing.JScrollPane();
  tblequipo = new javax.swing.JTable();
  lbllogo = new javax.swing.JLabel();
  lblautor = new javax.swing.JLabel();
  lblversion = new javax.swing.JLabel();
  lblbusqueda_serie = new javax.swing.JLabel();
  btnbuscar = new javax.swing.JButton();
  txtbusqueda_serie = new javax.swing.JTextField();
  lblserie = new javax.swing.JLabel();
  lbltipo = new javax.swing.JLabel();
  lblmarca = new javax.swing.JLabel();
  lblmodelo = new javax.swing.JLabel();
```



```
lblcolor = new javax.swing.JLabel();
txtmarca = new javax.swing.JTextField();
txtmodelo = new javax.swing.JTextField();
txtserie = new javax.swing.JTextField();
txtcolor = new javax.swing.JTextField();
btn1st = new javax.swing.JButton();
btnnext = new javax.swing.JButton();
btnprev = new javax.swing.JButton();
btnend = new iavax.swing.JButton():
btnnuevo = new javax.swing.JButton();
btnguardar = new javax.swing.JButton();
btnmodificar = new javax.swing.JButton();
btneliminar = new javax.swing.JButton();
btnlimpiar = new javax.swing.JButton();
btnsalir = new javax.swing.JButton();
btninfo = new javax.swing.JButton();
txtid = new javax.swing.JTextField();
cboxtipo = new javax.swing.JComboBox<>();
ibtnbacke = new javax.swing.JButton();
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT ON CLOSE);
tblequipo.setModel(new javax.swing.table.DefaultTableModel(
  new Object [][] {
     {null, null, null, null, null},
     {null, null, null, null, null},
     {null, null, null, null, null},
     {null, null, null, null, null}
  new String [] {
     "Serie", "Tipo", "Marca", "Modelo", "Color"
) {
  boolean[] canEdit = new boolean [] {
     false, false, false, false
  };
  public boolean isCellEditable(int rowIndex, int columnIndex) {
     return canEdit [columnIndex];
  }
});
tblequipo.addMouseListener(new java.awt.event.MouseAdapter() {
  public void mouseClicked(java.awt.event.MouseEvent evt) {
     tblequipoMouseClicked(evt);
  }
});
tblequipo.addKeyListener(new java.awt.event.KeyAdapter() {
  public void keyReleased(java.awt.event.KeyEvent evt) {
```



```
tblequipoKeyReleased(evt);
       }
    });
    jScrollPane1.setViewportView(tblequipo);
    Ibllogo.setIcon(new
javax.swing.Imagelcon(getClass().getResource("/img/sabes 1.png"))); // NOI18N
    Iblautor.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
    lblautor.setText("SABES");
    lblversion.setText("Control de equipo");
    lblbusqueda serie.setText("Tipo");
     btnbuscar.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/filtro 3.png"))); // NOI18N
     btnbuscar.setText("Filtrar");
    btnbuscar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnbuscarActionPerformed(evt);
    });
    lblserie.setText("Serie");
    lbltipo.setText("Tipo");
    lblmarca.setText("Marca");
    lblmodelo.setText("Modelo");
    lblcolor.setText("Color");
    btn1st.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/inicio.png"))); // NOI18N
     btn1st.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btn1stActionPerformed(evt);
    });
    btnnext.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/next.png"))); // NOI18N
     btnnext.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnnextActionPerformed(evt);
       }
```



```
});
     btnprev.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/prev.png"))); // NOI18N
     btnprev.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnprevActionPerformed(evt);
       }
     });
     btnend.setIcon(new javax.swing.ImageIcon(getClass().getResource("/img/fin.png")));
// NOI18N
     btnend.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnendActionPerformed(evt);
       }
     });
     btnnuevo.setlcon(new
javax.swing.ImageIcon(getClass().getResource("/img/nuevo.png"))); // NOI18N
     btnnuevo.setText("Nuevo");
     btnnuevo.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnnuevoActionPerformed(evt);
       }
     });
     btnguardar.setlcon(new
javax.swing.ImageIcon(getClass().getResource("/img/guardar.png"))); // NOI18N
     btnguardar.setText("Guardar");
     btnguardar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnguardarActionPerformed(evt);
       }
     });
     btnmodificar.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/editar.png"))); // NOI18N
     btnmodificar.setText("Modificar"):
     btnmodificar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnmodificarActionPerformed(evt);
       }
     });
     btneliminar.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/eliminar.png"))); // NOI18N
     btneliminar.setText("Eliminar");
```



```
btneliminar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btneliminarActionPerformed(evt);
       }
     });
     btnlimpiar.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/limpiar.png"))); // NOI18N
     btnlimpiar.setText("Limpiar"):
     btnlimpiar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnlimpiarActionPerformed(evt);
       }
     });
     btnsalir.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/salir 3.png"))); // NOI18N
     btnsalir.setText("Salir");
     btnsalir.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnsalirActionPerformed(evt);
     });
     btninfo.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/info 3.png"))); // NOI18N
     btninfo.setText("info");
     btninfo.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btninfoActionPerformed(evt);
       }
     });
     txtid.setDragEnabled(false);
     txtid.setEnabled(false);
     cboxtipo.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"Selecciona", "Laptop", "Proyector", "P. Acetato", "Regulador", "Extension" }));
     jbtnbacke.setlcon(new
javax.swing.ImageIcon(getClass().getResource("/img/back_32.png"))); // NOI18N
     jbtnbacke.setText("Atras");
     ibtnbacke.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jbtnbackeActionPerformed(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.LEADING)
.addGroup(layout.createSequentialGroup()

.addGap(26, 26, 26) .addComponent(lbllogo)

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

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

.addComponent(lblversion)

.addComponent(lblautor, javax.swing.GroupLayout.PREFERRED\_SIZE,

167, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(layout.createSequentialGroup()

.addGap(16, 16, 16)

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

.addGroup(layout.createSequentialGroup()

.addComponent(lblbusqueda\_serie)

.addGap(18, 18, 18)

.addComponent(txtbusqueda serie,

javax.swing.GroupLayout.PREFERRED\_SIZE, 400,

javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(btnbuscar))

.addGroup(layout.createSequentialGroup()

.addComponent(jScrollPane1,

javax.swing.GroupLayout.PREFERRED\_SIZE, 540,

javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(32, 32, 32)

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

.addGroup(layout.createSequentialGroup()

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

.addComponent(lbltipo)

.addComponent(lblserie))

.addGap(36, 36, 36)

.addComponent(txtid,

javax.swing.GroupLayout.PREFERRED\_SIZE, 100,

javax.swing.GroupLayout.PREFERRED\_SIZE)



.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)
.addComponent(btninfo)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addComponent(btnsalir))
.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

.addGroup(layout.createSequentialGroup()

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

.addComponent(lblcolor))
.addGap(33, 33, 33)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addComponent(txtmodelo,

javax.swing.GroupLayout.PREFERRED\_SIZE, 334, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(txtmarca,

javax.swing.GroupLayout.PREFERRED\_SIZE, 334,

javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addComponent(btn1st) .addGap(18, 18, 18)

.addComponent(btnprev)

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

.addComponent(btnnext)

.addGap(18, 18, 18)

.addComponent(btnend))

.addComponent(txtcolor,

javax.swing.GroupLayout.Alignment.TRAILING,

iavax.swing.GroupLavout.PREFERRED SIZE, 334.

javax.swing.GroupLayout.PREFERRED SIZE)

.addComponent(cboxtipo,

javax.swing.GroupLayout.Alignment.TRAILING,

javax.swing.GroupLayout.PREFERRED\_SIZE, 334,

javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(txtserie,

javax.swing.GroupLayout.Alignment.TRAILING,

javax.swing.GroupLayout.PREFERRED SIZE, 334,

javax.swing.GroupLayout.PREFERRED\_SIZE)))



.addGroup(layout.createSequentialGroup()
 .addComponent(btnnuevo)

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                              .addComponent(btnguardar)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                                  .addComponent(jbtnbacke,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX VALUE)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                                  .addComponent(btnlimpiar))
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                                  .addComponent(btnmodificar)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                                  .addComponent(btneliminar)))))
                         .addGroup(layout.createSequentialGroup()
                           .addGap(2, 2, 2)
                           .addComponent(lblmarca)))
                       .addGap(0, 0, Short.MAX VALUE)))))))
         .addContainerGap(21, Short.MAX VALUE))
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(layout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
           .addGroup(layout.createSequentialGroup()
             .addGap(31, 31, 31)
             .addComponent(lblautor)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
              .addComponent(lblversion))
           .addGroup(layout.createSequentialGroup()
             .addGap(19, 19, 19)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```



.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE) .addComponent(btnsalir) .addComponent(btninfo) .addComponent(txtid, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE)) .addComponent(lbllogo)))) .addGap(79, 79, 79) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE) .addComponent(txtserie, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, javax.swing.GroupLayout.PREFERRED\_SIZE) .addComponent(lblserie)) .addGap(18, 18, 18) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE) .addComponent(lbltipo) .addComponent(cboxtipo, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, iavax.swing.GroupLayout.PREFERRED\_SIZE)) .addGap(13, 13, 13) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE) .addComponent(txtmarca, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, javax.swing.GroupLayout.PREFERRED\_SIZE) .addComponent(lblmarca)) .addGap(18, 18, 18) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE) .addComponent(txtmodelo, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, javax.swing.GroupLayout.PREFERRED SIZE) .addComponent(lblmodelo)) .addGap(18, 18, 18) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE) .addComponent(txtcolor, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, javax.swing.GroupLayout.PREFERRED SIZE) .addComponent(lblcolor)) .addGap(18, 18, 18) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING) .addComponent(btnend, javax.swing.GroupLayout.Alignment.TRAILING) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE) .addComponent(btn1st) .addComponent(btnprev)

.addComponent(btnnext)))



```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
67, Short.MAX_VALUE)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(btnnuevo)
            .addComponent(btnguardar)
            .addComponent(btnmodificar)
            .addComponent(btneliminar))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(btnlimpiar)
            .addComponent(jbtnbacke))
         .addGap(18, 18, 18))
       .addGroup(layout.createSequentialGroup()
         .addGap(124, 124, 124)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(btnbuscar)
            .addComponent(txtbusqueda serie,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.PREFERRED SIZE)
            .addComponent(lblbusqueda serie))
         .addGap(18, 18, 18)
         .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
369, javax.swing.GroupLayout.PREFERRED_SIZE)
         .addGap(61, 61, 61))
    );
    pack();
  }// </editor-fold>
  private void btnbuscarActionPerformed(java.awt.event.ActionEvent evt) {
    String tipo = txtbusqueda serie.getText();
    String where = "";
    if (!"".equals(tipo)) {
       where = " WHERE tipo = "" + tipo + """;
    }
    try {
       DefaultTableModel modelo = new DefaultTableModel();
       tblequipo.setModel(modelo);
       PreparedStatement ps = null;
       ResultSet rs = null;
```



```
herramienta conexion = new herramienta();
    Connection reg = conexion.conectar();
     String sql = "SELECT serie, tipo, marca, modelo, color FROM equipo" + where;
     System.out.println(sql);
    ps = reg.prepareStatement(sql);
     rs = ps.executeQuery();
    ResultSetMetaData rsMd = rs.getMetaData():
    int cantidadColumnas = rsMd.getColumnCount();
    modelo.addColumn("Serie");
     modelo.addColumn("Tipo");
    modelo.addColumn("Marca");
    modelo.addColumn("Modelo");
    modelo.addColumn("Color");
    int[] wide = {150, 100, 100, 150, 100};
    for (int x = 0; x < cantidadColumnas; x++) {
       tblequipo.getColumnModel().getColumn(x).setPreferredWidth(wide[x]);
    while (rs.next()) {
       Object[] filas = new Object[cantidadColumnas];
       for (int i = 0; i < cantidadColumnas; i++) {
         filas[i] = rs.getObject(i + 1);
       modelo.addRow(filas);
    }
  } catch (Exception e) {
     System.out.println(e);
    JOptionPane.showMessageDialog(null, "Error");
  }
  limpiar();
private void btnnuevoActionPerformed(java.awt.event.ActionEvent evt) {
  limpiar();
  btnguardar.setEnabled(true);
  activarCajas();
  btnmodificar.setEnabled(false);
  btneliminar.setEnabled(false);
  btnlimpiar.setEnabled(true);
```

}



```
String combo;
  private void btnguardarActionPerformed(java.awt.event.ActionEvent evt) {
     PreparedStatement ps = null;
     combo = cboxtipo.getSelectedItem().toString();
     if (txtserie.getText().isEmpty() || "Selecciona".equalsIgnoreCase(combo) ||
txtmarca.getText().isEmpty() || txtmodelo.getText().isEmpty() ||
txtcolor.getText().isEmpty()) {
       JOptionPane.showMessageDialog(null, "Favor de llenar todos los campos...");
     } else {
       try {
          herramienta conexion = new herramienta();
          com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
          ps = reg.prepareStatement("INSERT INTO equipo (serie, tipo, marca, modelo,
color) VALUES (?,?,?,?,?)");
          ps.setString(1, txtserie.getText());
          ps.setString(2, cboxtipo.getSelectedItem().toString());
          ps.setString(3, txtmarca.getText());
          ps.setString(4, txtmodelo.getText());
          ps.setString(5, txtcolor.getText());
          ps.execute();
          JOptionPane.showMessageDialog(null, "Equipo Guardado");
          Object[] fila = new Object[5];
          fila[0] = txtserie.getText();
          fila[1] = cboxtipo.getSelectedItem().toString();
          fila[2] = txtmarca.getText();
          fila[3] = txtmodelo.getText();
          fila[4] = txtcolor.getText();
          modelo.addRow(fila);
          limpiar();
       } catch (SQLException e) {
          System.out.println(e);
       }
       btnguardar.setEnabled(false);
       btnlimpiar.setEnabled(false);
       actualizarbd();
       desactivarCajas();
  }
```



```
private void btnmodificarActionPerformed(java.awt.event.ActionEvent evt) {
    int Fila = tblequipo.getSelectedRow();
     PreparedStatement ps = null;
     if (txtserie.getText().isEmpty() || "Selecciona".equalsIgnoreCase(combo) ||
txtmarca.getText().isEmpty() || txtmodelo.getText().isEmpty() ||
txtcolor.getText().isEmpty()) {
       JOptionPane.showMessageDialog(null, "Favor de llenar todos los campos...");
    } else {
       try {
          herramienta conexion = new herramienta();
          com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
          ps = reg.prepareStatement("UPDATE equipo SET serie=?, tipo=?, marca=?,
modelo=?, color=? WHERE id_equipo=?");
          ps.setString(1, txtserie.getText());
          ps.setString(2, cboxtipo.getSelectedItem().toString());
          ps.setString(3, txtmarca.getText());
          ps.setString(4, txtmodelo.getText());
          ps.setString(5, txtcolor.getText());
          ps.setString(6, txtid.getText());
          ps.execute();
          JOptionPane.showMessageDialog(null, "Equipo Modificado");
          tblequipo.setValueAt(txtserie.getText(), Fila, 0);
          tblequipo.setValueAt(cboxtipo.getSelectedItem().toString(), Fila, 1);
          tblequipo.setValueAt(txtmarca.getText(), Fila, 2);
          tblequipo.setValueAt(txtmodelo.getText(), Fila, 3);
          tblequipo.setValueAt(txtcolor.getText(), Fila, 4);
          limpiar();
       } catch (SQLException e) {
          System.out.println(e):
          JOptionPane.showMessageDialog(null, "Error al Modificar Equipo");
       btnmodificar.setEnabled(false);
       btneliminar.setEnabled(false):
       btnlimpiar.setEnabled(false);
       desactivarCajas();
  }
```



```
private void btneliminarActionPerformed(java.awt.event.ActionEvent evt) {
  PreparedStatement ps = null;
    try {
       herramienta conexion = new herramienta();
       com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
       int Fila = tblequipo.getSelectedRow():
       String rfc = tblequipo.getValueAt(Fila, 0).toString();
       ps = reg.prepareStatement("DELETE FROM equipo WHERE id_equipo=?");
       //Para eliminar desde columna
       //ps.setString(1, rfc);
       ps.setString(1, txtid.getText());
       ps.execute();
       modelo.removeRow(Fila);
       JOptionPane.showMessageDialog(null, "Equipo Eliminado");
       limpiar();
    } catch (SQLException e) {
       System.out.println(e.toString());
       JOptionPane.showMessageDialog(null, "Error al Eliminar Equipo");
    btnmodificar.setEnabled(false);
    btneliminar.setEnabled(false);
    btnlimpiar.setEnabled(false);
    actualizarbd();
    desactivarCajas();
  private void btnlimpiarActionPerformed(java.awt.event.ActionEvent evt) {
        limpiar();
        btnguardar.setEnabled(false):
    btnmodificar.setEnabled(false);
    btneliminar.setEnabled(false);
    desactivarNav():
    desactivarCajas();
    btnlimpiar.setEnabled(false);
  private void btninfoActionPerformed(java.awt.event.ActionEvent evt) {
    JOptionPane.showMessageDialog(null, "¿Qué hay de nuevo?\n"
          + "Opción de filtrar por tipo de equipo.");
```



private void btnsalirActionPerformed(java.awt.event.ActionEvent evt) { dispose(); } private void btn1stActionPerformed(java.awt.event.ActionEvent evt) { try { herramienta conn = new herramienta(); String cons = "SELECT \* FROM equipo"; consulta = conn.consulta(cons); consulta.first(); muestra(consulta); } catch (Exception e) { System.out.println(e); activarNav(); desactivarCajas(); btnguardar.setEnabled(false); btnmodificar.setEnabled(false); btneliminar.setEnabled(false); } private void btnprevActionPerformed(java.awt.event.ActionEvent evt) { try { consulta.previous(); muestra(consulta); } catch (Exception e) { System.out.println(e); desactivarCajas(); btnguardar.setEnabled(false); private void btnnextActionPerformed(java.awt.event.ActionEvent evt) { try { consulta.next(); muestra(consulta); } catch (Exception e) { System.out.println(e); desactivarCajas(); btnguardar.setEnabled(false); }



```
private void btnendActionPerformed(java.awt.event.ActionEvent evt) {
  try {
       consulta.last();
       muestra(consulta);
    } catch (Exception e) {
       System.out.println(e);
    }
    desactivarCajas();
    btnguardar.setEnabled(false);
  private void tblequipoMouseClicked(java.awt.event.MouseEvent evt) {
  PreparedStatement ps = null;
     ResultSet rs = null;
    try {
       herramienta conexion = new herramienta();
       com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
       int Fila = tblequipo.getSelectedRow();
       String serie = tblequipo.getValueAt(Fila, 0).toString();
       ps = reg.prepareStatement("SELECT id_equipo, serie, tipo, marca, modelo, color
FROM equipo WHERE serie=?");
       ps.setString(1, serie);
       rs = ps.executeQuery();
       while (rs.next()) {
          txtid.setText(rs.getString("id_equipo"));
          txtserie.setText(rs.getString("serie"));
          cboxtipo.setSelectedItem(rs.getString("tipo"));
          txtmarca.setText(rs.getString("marca"));
          txtmodelo.setText(rs.getString("modelo"));
          txtcolor.setText(rs.getString("color"));
    } catch (SQLException e) {
       System.out.println(e.toString());
    }
    desactivarNav():
    activarCajas();
    btnguardar.setEnabled(false);
    btnmodificar.setEnabled(true);
    btneliminar.setEnabled(true);
    btnlimpiar.setEnabled(true);
```



```
}
  private void tblequipoKeyReleased(java.awt.event.KeyEvent evt) {
    if (evt.getKeyCode() == KeyEvent.VK_DOWN || (evt.getKeyCode() ==
KeyEvent.VK UP)) {
       PreparedStatement ps = null;
       ResultSet rs = null:
       try {
         herramienta conexion = new herramienta();
         com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar():
         int Fila = tblequipo.getSelectedRow();
         String serie = tblequipo.getValueAt(Fila, 0).toString();
          ps = reg.prepareStatement("SELECT id_equipo, serie, tipo, marca, modelo,
color FROM equipo WHERE serie=?");
         ps.setString(1, serie);
         rs = ps.executeQuery();
         while (rs.next()) {
         txtid.setText(rs.getString("id_equipo"));
         txtserie.setText(rs.getString("serie"));
         cboxtipo.setSelectedItem(rs.getString("tipo"));
         txtmarca.setText(rs.getString("marca"));
         txtmodelo.setText(rs.getString("modelo"));
         txtcolor.setText(rs.getString("color"));
       } catch (SQLException e) {
         System.out.println(e.toString());
       desactivarNav():
       activarCajas();
       btnguardar.setEnabled(false);
       btnmodificar.setEnabled(true);
       btneliminar.setEnabled(true);
       btnlimpiar.setEnabled(true);
    }
  }
  private void jbtnbackeActionPerformed(java.awt.event.ActionEvent evt) {
     Administrador mostraradministrador = new Administrador ();
    mostraradministrador.setSize(960, 640);
```



```
mostraradministrador.setVisible(true);
     mostraradministrador.setLocationRelativeTo(null):
     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 ("Windows".equals(info.getName())) {
            javax.swing.UIManager.setLookAndFeel(info.getClassName());
            break:
          }
       }
     } catch (ClassNotFoundException ex) {
java.util.logging.Logger.getLogger(tb_equipo.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
     } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(tb_equipo.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
     } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(tb_equipo.class.getName()).log(java.util.logging.Level.
SEVERE. null. ex):
     } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(tb equipo.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 tb equipo().setVisible(true);
       }
```



```
});
// Variables declaration - do not modify
private javax.swing.JButton btn1st;
private javax.swing.JButton btnbuscar;
private javax.swing.JButton btneliminar;
private javax.swing.JButton btnend;
private javax.swing.JButton btnguardar:
private javax.swing.JButton btninfo;
private javax.swing.JButton btnlimpiar;
private javax.swing.JButton btnmodificar;
private javax.swing.JButton btnnext;
private javax.swing.JButton btnnuevo;
private javax.swing.JButton btnprev;
private javax.swing.JButton btnsalir;
private javax.swing.JComboBox<String> cboxtipo;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JButton jbtnbacke;
private javax.swing.JLabel lblautor;
private javax.swing.JLabel lblbusqueda_serie;
private javax.swing.JLabel lblcolor;
private javax.swing.JLabel lbllogo;
private javax.swing.JLabel lblmarca;
private javax.swing.JLabel lblmodelo;
private javax.swing.JLabel lblserie;
private javax.swing.JLabel lbltipo;
private javax.swing.JLabel lblversion;
private javax.swing.JTable tblequipo;
private javax.swing.JTextField txtbusqueda serie;
private javax.swing.JTextField txtcolor;
private javax.swing.JTextField txtid;
private javax.swing.JTextField txtmarca:
private javax.swing.JTextField txtmodelo;
private javax.swing.JTextField txtserie;
// End of variables declaration
```



# tb\_prestamo

```
package sabes_equipo;
import java.awt.event.KeyEvent;
import java.sql.Connection;
import java.sql.Date;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Calendar;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
* @author ivanhg
public class tb prestamo extends javax.swing.JFrame {
  DefaultTableModel modelo = new DefaultTableModel();
  ResultSet consulta:
  public tb_prestamo() {
    initComponents();
    this.setLocationRelativeTo(null);
    tb_profesor();
    tb_equipo();
    comparaProf();
    comparaSerie();
    txtid.setVisible(false);
    txtidprof.setVisible(false):
    txtidequipo.setVisible(false);
    txtfecha.setVisible(false);
    /*desactivarNav();*/
    desactivarCajas();
    btnguardar.setEnabled(false);
    btnmodificar.setEnabled(false);
    btneliminar.setEnabled(false);
    btnlimpiar.setEnabled(false);
    try {
```



```
tblprestamo.setModel(modelo);
       PreparedStatement ps = null;
       ResultSet rs = null;
       herramienta conexion = new herramienta();
       Connection reg = conexion.conectar();
       String sql = "SELECT nombre, serie, fecha uso, hora uso, hora regreso, id renta
FROM prestamo, profesor, equipo WHERE prestamo.prof id = profesor.id prof &&
prestamo.equipo_id = equipo.id_equipo";
       System.out.println(sql);
       ps = reg.prepareStatement(sql);
       rs = ps.executeQuery();
       ResultSetMetaData rsMd = rs.getMetaData();
       int cantidadColumnas = rsMd.getColumnCount();
       modelo.addColumn("Profesor");
       modelo.addColumn("Serie");
       modelo.addColumn("Fecha_uso");
       modelo.addColumn("Hora de uso");
       modelo.addColumn("Hora de regreso");
       modelo.addColumn("id renta");
       int[] wide = {220, 125, 125, 125, 125, 0};
       for (int x = 0; x < cantidadColumnas; x++) {
         tblprestamo.getColumnModel().getColumn(x).setPreferredWidth(wide[x]);
       }
       while (rs.next()) {
         Object[] filas = new Object[cantidadColumnas]:
         for (int i = 0; i < cantidadColumnas; i++) {
            filas[i] = rs.getObject(i + 1);
         }
         modelo.addRow(filas);
       }
    } catch (SQLException e) {
       System.err.println(e.toString());
    }
  }
```



```
private void limpiar() {
  txtid.setText("");
  cboxprofesor.setSelectedIndex(0):
  cboxserie.setSelectedIndex(0);
  txtfecha.setText("");
  txthorauso.setText("");
  txthoraregreso.setText("");
  txtidprof.setText("");
  txtidequipo.setText("");
  datefecha.setDate(null);
}
private void desactivarNav() {
  btnnext.setEnabled(false);
  btnprev.setEnabled(false);
  btnend.setEnabled(false);
}
private void activarNav() {
  btnnext.setEnabled(true);
  btnprev.setEnabled(true);
  btnend.setEnabled(true);
}
*/
private void activarCajas() {
  cboxprofesor.setEnabled(true);
  cboxserie.setEnabled(true);
  txtfecha.setEnabled(true);
  txthorauso.setEnabled(true);
  txthoraregreso.setEnabled(true);
  datefecha.setEnabled(true);
}
private void desactivarCajas() {
  cboxprofesor.setEnabled(false);
  cboxserie.setEnabled(false);
  txtfecha.setEnabled(false);
  txthorauso.setEnabled(false);
  txthoraregreso.setEnabled(false);
  datefecha.setEnabled(false);
}
  /*public void muestra(ResultSet consulta) throws SQLException {
  txtid.setText(consulta.getString(1));
  cboxprofesor.setSelectedItem(consulta.getString(2));
  cboxserie.setSelectedItem(consulta.getString(3));
```



```
txtfecha.setText(consulta.getString(4));
    txthorauso.setText(consulta.getString(5));
    txthoraregreso.setText(consulta.getString(6));
  }*/
  private void actualizarbd() {
    try {
       DefaultTableModel modelo = new DefaultTableModel();
       tblprestamo.setModel(modelo):
       PreparedStatement ps = null;
       ResultSet rs = null;
       herramienta conexion = new herramienta();
       Connection reg = conexion.conectar();
       String sql = "SELECT nombre, serie, fecha_uso, hora_uso, hora_regreso, id_renta
FROM prestamo, profesor, equipo WHERE prestamo.prof id = profesor.id prof &&
prestamo.equipo id = equipo.id equipo";
       System.out.println(sql);
       ps = reg.prepareStatement(sql);
       rs = ps.executeQuery();
       ResultSetMetaData rsMd = rs.getMetaData();
       int cantidadColumnas = rsMd.getColumnCount();
       modelo.addColumn("Profesor");
       modelo.addColumn("Serie");
       modelo.addColumn("Fecha_uso");
       modelo.addColumn("Hora de uso");
       modelo.addColumn("Hora de regreso");
       modelo.addColumn("id renta");
       int[] wide = {220, 125, 125, 125, 125, 0};
       for (int x = 0; x < cantidadColumnas; x++) {
         tblprestamo.getColumnModel().getColumn(x).setPreferredWidth(wide[x]);
       while (rs.next()) {
         Object[] filas = new Object[cantidadColumnas];
         for (int i = 0; i < cantidadColumnas; i++) {
            filas[i] = rs.getObject(i + 1);
         modelo.addRow(filas);
       }
    } catch (SQLException e) {
```



```
System.err.println(e.toString());
  }
}
void tb_profesor() {
  try {
     PreparedStatement ps = null;
     ResultSet rs = null;
     herramienta conexion = new herramienta();
     Connection reg = conexion.conectar();
     String sql = "Select * from profesor";
     Statement st = reg.createStatement();
     rs = st.executeQuery(sql);
     while (rs.next()) {
       cboxprofesor.addItem(rs.getString("nombre"));
     }
  } catch (SQLException e) {
     System.err.println(e.toString());
  }
}
  void tb_equipo() {
  try {
     PreparedStatement ps = null;
     ResultSet rs = null;
     herramienta conexion = new herramienta();
     Connection reg = conexion.conectar();
     String sql = "Select * from equipo";
     Statement st = reg.createStatement();
     rs = st.executeQuery(sql);
     while (rs.next()) {
       cboxserie.addItem(rs.getString("serie"));
     }
  } catch (SQLException e) {
     System.err.println(e.toString());
}
  private void comparaProf(){
    try {
     PreparedStatement ps = null;
```



```
ResultSet rs = null;
       herramienta conexion = new herramienta();
       Connection reg = conexion.conectar();
       ps = reg.prepareStatement("SELECT id_prof FROM profesor WHERE nombre =
?");
       ps.setString(1, cboxprofesor.getSelectedItem().toString());
       rs=ps.executeQuery();
       if (rs.next()) {
         txtidprof.setText(rs.getString("id_prof"));
       } else {
         /*JOptionPane.showMessageDialog(null, "No existe el profesor");*/
    } catch (SQLException e) {
       System.err.println(e.toString());
    }
    private void comparaSerie(){
       try {
       PreparedStatement ps = null;
       ResultSet rs = null:
       herramienta conexion = new herramienta();
       Connection reg = conexion.conectar();
       ps = reg.prepareStatement("SELECT id_equipo FROM equipo WHERE serie =
?");
       ps.setString(1, cboxserie.getSelectedItem().toString());
       rs=ps.executeQuery();
       if (rs.next()) {
         txtidequipo.setText(rs.getString("id_equipo"));
       } else {
         /*JOptionPane.showMessageDialog(null, "No existe el profesor");*/
    } catch (SQLException e) {
```



```
System.err.println(e.toString());
  }
  }
* This method is called from within the constructor to initialize the form.
* WARNING: Do NOT modify this code. The content of this method is always
* regenerated by the Form Editor.
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {
  iScrollPane1 = new javax.swing.JScrollPane();
  tblprestamo = new javax.swing.JTable():
  cboxprofesor = new javax.swing.JComboBox<>();
  cboxserie = new javax.swing.JComboBox<>();
  txtfecha = new javax.swing.JTextField();
  txthorauso = new iavax.swing.JTextField():
  txthoraregreso = new javax.swing.JTextField();
  lblprofesor = new javax.swing.JLabel();
  lblserie = new javax.swing.JLabel();
  lblfecha = new javax.swing.JLabel();
  lblhorauso = new javax.swing.JLabel();
  lblhoraregreso = new javax.swing.JLabel();
  btnmodificar = new javax.swing.JButton();
  btnguardar = new javax.swing.JButton();
  btninfo = new javax.swing.JButton();
  btneliminar = new javax.swing.JButton();
  btnnuevo = new javax.swing.JButton();
  btnlimpiar = new javax.swing.JButton();
  btnsalir = new javax.swing.JButton();
  btnbuscar = new javax.swing.JButton();
  lblbusgeda fecha = new javax.swing.JLabel();
  txtbusqueda serie = new javax.swing.JTextField();
  txtid = new javax.swing.JTextField();
  txtidprof = new javax.swing.JTextField();
  txtidequipo = new javax.swing.JTextField();
  btnfecha = new javax.swing.JButton();
  btnhoras = new javax.swing.JButton();
  lbllogo = new javax.swing.JLabel();
  Iblautor = new javax.swing.JLabel();
  lblversion = new javax.swing.JLabel();
  datefecha = new com.toedter.calendar.JDateChooser();
```



```
jbtnbackpr = new javax.swing.JButton();
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    tblprestamo.setModel(new javax.swing.table.DefaultTableModel(
       new Object [][] {
         {null, null, null, null, null, null},
         {null, null, null, null, null, null},
         {null, null, null, null, null, null}.
         {null, null, null, null, null, null},
         {null, null, null, null, null, null}
       },
       new String [] {
          "Profesor", "Serie", "Fecha", "Hora de uso", "Hora de regreso", "renta id"
       }
    ) {
       boolean[] canEdit = new boolean [] {
         false, false, false, false, true
       }:
       public boolean isCellEditable(int rowIndex, int columnIndex) {
         return canEdit [columnIndex];
       }
    });
    tblprestamo.addMouseListener(new java.awt.event.MouseAdapter() {
       public void mouseClicked(java.awt.event.MouseEvent evt) {
         tblprestamoMouseClicked(evt):
       }
    });
    tblprestamo.addKeyListener(new java.awt.event.KeyAdapter() {
       public void keyReleased(java.awt.event.KeyEvent evt) {
         tblprestamoKeyReleased(evt);
       }
    });
    jScrollPane1.setViewportView(tblprestamo);
    cboxprofesor.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"Selecciona..." }));
    cboxprofesor.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
         cboxprofesorActionPerformed(evt);
    });
    cboxserie.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"Selecciona..." }));
    cboxserie.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
```



```
cboxserieActionPerformed(evt);
       }
     });
     txtfecha.setEnabled(false);
     lblprofesor.setText("Profesor");
     lblserie.setText("Serie");
     lblfecha.setText("Fecha");
     lblhorauso.setText("Hora de uso");
     lblhoraregreso.setText("Hora de regreso");
     btnmodificar.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/editar.png"))); // NOI18N
     btnmodificar.setText("Modificar");
     btnmodificar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnmodificarActionPerformed(evt);
     });
     btnguardar.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/guardar.png"))); // NOI18N
     btnguardar.setText("Guardar");
     btnguardar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnguardarActionPerformed(evt);
     });
     btninfo.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/info 3.png"))); // NOI18N
     btninfo.setText("info");
     btninfo.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btninfoActionPerformed(evt);
       }
     });
     btneliminar.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/eliminar.png"))); // NOI18N
     btneliminar.setText("Eliminar");
     btneliminar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
```



```
btneliminarActionPerformed(evt);
       }
     });
     btnnuevo.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/nuevo.png"))); // NOI18N
     btnnuevo.setText("Nuevo");
     btnnuevo.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(iava.awt.event.ActionEvent evt) {
          btnnuevoActionPerformed(evt);
       }
     });
     btnlimpiar.setlcon(new
javax.swing.lmagelcon(getClass().getResource("/img/limpiar.png"))); // NOI18N
     btnlimpiar.setText("Limpiar");
     btnlimpiar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnlimpiarActionPerformed(evt);
       }
     });
     btnsalir.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/salir 3.png"))); // NOI18N
     btnsalir.setText("Salir");
     btnsalir.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnsalirActionPerformed(evt);
       }
     });
     btnbuscar.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/filtro_3.png"))); // NOI18N
     btnbuscar.setText("Filtrar");
     btnbuscar.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnbuscarActionPerformed(evt);
       }
     });
     lblbusqeda_fecha.setText("Serie");
     txtid.setEnabled(false);
     txtidprof.setEnabled(false);
     txtidequipo.setEnabled(false);
```



```
btnfecha.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/info_4.png"))); // NOI18N
     btnfecha.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
         btnfechaActionPerformed(evt);
    });
    btnhoras.setIcon(new
javax.swing.Imagelcon(getClass().getResource("/img/info 4.png"))); // NOI18N
     btnhoras.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
         btnhorasActionPerformed(evt);
       }
    });
    Ibllogo.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/sabes_1.png"))); // NOI18N
    Iblautor.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
    lblautor.setText("SABES");
    Iblversion.setText("Control de préstamo de equipo");
    jbtnbackpr.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/back_32.png"))); // NOI18N
     ibtnbackpr.setText("Atras");
    jbtnbackpr.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
         jbtnbackprActionPerformed(evt);
    });
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
     getContentPane().setLayout(layout);
    lavout.setHorizontalGroup(
       lavout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(layout.createSequentialGroup()
          .addGap(20, 20, 20)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
            .addComponent(iScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
529, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(layout.createSequentialGroup()
              .addComponent(lblbusgeda fecha)
              .addGap(18, 18, 18)
              .addComponent(txtbusqueda_serie)
```



.addGap(18, 18, 18)
.addComponent(btnbuscar))
.addGroup(layout.createSequentialGroup()
.addGap(10, 10, 10)
.addComponent(lbllogo)

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

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

.addComponent(lblautor, javax.swing.GroupLayout.PREFERRED\_SIZE,

167, javax.swing.GroupLayout.PREFERRED\_SIZE))))
.addGap(28, 28, 28)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
.addComponent(lblprofesor,

javax.swing.GroupLayout.PREFERRED SIZE, 114,

javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,

layout.createSequentialGroup()

.addComponent(lblfecha)

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

.addComponent(btnfecha))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,

layout.createSequentialGroup()

.addComponent(lblhorauso)

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

.addComponent(btnhoras))

.addComponent(lblhoraregreso,

javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(lblserie, javax.swing.GroupLayout.Alignment.LEADING,

javax.swing.GroupLayout.PREFERRED SIZE, 100,

javax.swing.GroupLayout.PREFERRED SIZE))

. add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED)

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

.addGroup(layout.createSequentialGroup()

.addComponent(txtid, javax.swing.GroupLayout.PREFERRED\_SIZE,

56, javax.swing.GroupLayout.PREFERRED\_SIZE)



.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)
.addComponent(btninfo)

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

.addComponent(btnsalir))

.addComponent(txthorauso, javax.swing.GroupLayout.DEFAULT\_SIZE,

293. Short.MAX VALUE)

.addComponent(txthoraregreso)

.addComponent(cboxprofesor, 0,

javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(cboxserie, 0,

javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(datefecha, javax.swing.GroupLayout.DEFAULT\_SIZE,

javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)))

.addGroup(layout.createSequentialGroup()

.addComponent(btnnuevo)

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

.addComponent(btnguardar)

.addGap(12, 12, 12)

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

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,

layout.createSequentialGroup()

.addComponent(jbtnbackpr,

javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX VALUE)

.addGap(18, 18, 18)

.addComponent(btnlimpiar))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,

layout.createSequentialGroup()

.addComponent(btnmodificar)

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

.addComponent(btneliminar)))))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

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

.addComponent(txtidprof, javax.swing.GroupLayout.Alignment.TRAILING,

javax.swing.GroupLayout.DEFAULT\_SIZE, 35, Short.MAX\_VALUE)

.addComponent(txtidequipo, javax.swing.GroupLayout.Alignment.TRAILING,

javax.swing.GroupLayout.DEFAULT\_SIZE, 35, Short.MAX\_VALUE)

.addComponent(txtfecha))



.addContainerGap()) ); layout.setVerticalGroup( layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING) .addGroup(layout.createSequentialGroup() .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING) .addGroup(layout.createSequentialGroup() .addGap(38, 38, 38) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE) .addComponent(txtid, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE) .addComponent(btninfo) .addComponent(btnsalir))) .addGroup(layout.createSequentialGroup() .addGap(21, 21, 21) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING) .addGroup(layout.createSequentialGroup() .addGap(12, 12, 12) .addComponent(lblautor) .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED) .addComponent(lblversion)) .addComponent(lbllogo)))) .addGap(35, 35, 35) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE) .addComponent(lblbusgeda fecha) .addComponent(btnbuscar) .addComponent(txtbusqueda serie, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED SIZE)) .addGap(22, 22, 22) .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING) .addGroup(layout.createSequentialGroup() .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 325, javax.swing.GroupLayout.PREFERRED SIZE) .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)) .addGroup(layout.createSequentialGroup()

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



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"Código fuente"

```
.addComponent(cboxprofesor,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(lblprofesor)
                .addComponent(txtidprof,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.PREFERRED SIZE))
             .addGap(22, 22, 22)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(cboxserie.
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.PREFERRED SIZE)
                .addComponent(lblserie)
                .addComponent(txtidequipo,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT SIZE.
javax.swing.GroupLayout.PREFERRED SIZE))
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                  .addComponent(btnfecha))
               .addGroup(layout.createSequentialGroup()
                  .addGap(23, 23, 23)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(txtfecha,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(lblfecha)))
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                  .addComponent(datefecha,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE.
javax.swing.GroupLayout.PREFERRED_SIZE)))
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                  .addGap(29, 29, 29)
```



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

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                       .addComponent(txthoraregreso,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.PREFERRED SIZE)
                       .addComponent(lblhoraregreso))
                     .addGroup(layout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                         .addComponent(lblhorauso)
                         .addComponent(txthorauso,
javax.swing.GroupLayout.PREFERRED SIZE,
javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.PREFERRED SIZE))
                       .addGap(49, 49, 49))))
                .addGroup(layout.createSequentialGroup()
                  .addGap(18, 18, 18)
                  .addComponent(btnhoras)))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 50,
Short.MAX VALUE)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(btnmodificar)
                .addComponent(btneliminar)
                .addComponent(btnnuevo)
                .addComponent(btnguardar))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(btnlimpiar)
                .addComponent(jbtnbackpr))
              .addGap(55, 55, 55))))
    );
    pack();
  }// </editor-fold>
  private void btnbuscarActionPerformed(java.awt.event.ActionEvent evt) {
    String serie = txtbusqueda_serie.getText();
    String where = "";
    if (!"".equals(serie)) {
      where = " && serie = "" + serie + """;
```



```
}
    try {
       DefaultTableModel modelo = new DefaultTableModel();
       tblprestamo.setModel(modelo);
       PreparedStatement ps = null;
       ResultSet rs = null:
       herramienta conexion = new herramienta();
       Connection reg = conexion.conectar();
       String sql = "SELECT nombre, serie, fecha_uso, hora_uso, hora_regreso, id_renta
FROM prestamo, profesor, equipo WHERE prestamo.prof id = profesor.id prof &&
prestamo.equipo_id = equipo.id_equipo" + where;
       System.out.println(sql);
       ps = reg.prepareStatement(sql);
       rs = ps.executeQuery();
       ResultSetMetaData rsMd = rs.getMetaData():
       int cantidadColumnas = rsMd.getColumnCount();
       modelo.addColumn("Profesor");
       modelo.addColumn("Serie");
       modelo.addColumn("Fecha uso");
       modelo.addColumn("Hora de uso");
       modelo.addColumn("Hora de regreso");
       modelo.addColumn("id_renta");
       int[] wide = {220, 125, 125, 125, 125, 0};
       for (int x = 0; x < cantidadColumnas; x++) {
         tblprestamo.getColumnModel().getColumn(x).setPreferredWidth(wide[x]);
       while (rs.next()) {
         Object[] filas = new Object[cantidadColumnas];
         for (int i = 0; i < cantidadColumnas; i++) {
            filas[i] = rs.getObject(i + 1);
         modelo.addRow(filas);
       }
    } catch (Exception e) {
       System.out.println(e);
       JOptionPane.showMessageDialog(null, "Error");
    }
```



```
limpiar();
  private void btnnuevoActionPerformed(java.awt.event.ActionEvent evt) {
   limpiar();
     btnguardar.setEnabled(true);
     activarCajas();
    btnmodificar.setEnabled(false):
    btneliminar.setEnabled(false);
    btnlimpiar.setEnabled(true);
  }
  String comboprof;
  String comboserie;
  private void btnguardarActionPerformed(java.awt.event.ActionEvent evt) {
  PreparedStatement ps = null;
     comboprof = cboxprofesor.getSelectedItem().toString();
     comboserie = cboxserie.getSelectedItem().toString();
     if ("Selecciona...".equalsIgnoreCase(comboprof) ||
"Selecciona...".equalsIgnoreCase(comboserie) | datefecha.getDate()==null ||
txthorauso.getText().isEmpty() || txthoraregreso.getText().isEmpty()) {
       JOptionPane.showMessageDialog(null, "Favor de llenar todos los campos...");
    } else {
       try {
         herramienta conexion = new herramienta();
         com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
         ps = reg.prepareStatement("INSERT INTO prestamo (prof_id, equipo_id,
fecha uso, hora uso, hora regreso) VALUES (?,?,?,?,?)");
         Marcaria error en un determinado tiempo al eliminar profesores, funcionaria si
nunca se eliminaran.
         ps.setInt(1, cboxprofesor.getSelectedIndex());
         ps.setInt(2, cboxserie.getSelectedIndex());
          String dia = Integer.toString
(datefecha.getCalendar().get(Calendar.DAY_OF_MONTH));
         String mes = Integer.toString
(datefecha.getCalendar().get(Calendar.MONTH)+1);
          String ano = Integer.toString (datefecha.getCalendar().get(Calendar.YEAR));
          String fecha;
```



```
fecha = año + "-" + mes + "-" + dia;
          txtfecha.setText(fecha);
          ps.setString(1, txtidprof.getText());
          ps.setString(2, txtidequipo.getText());
          ps.setString(3, txtfecha.getText());
          ps.setString(4, txthorauso.getText());
          ps.setString(5, txthoraregreso.getText());
          ps.execute();
          JOptionPane.showMessageDialog(null, "Préstamo Guardado");
          Object[] fila = new Object[5];
          fila[1] = cboxprofesor.getSelectedItem().toString();
          fila[1] = cboxserie.getSelectedItem().toString();
          fila[2] = txtfecha.getText();
          fila[3] = txthorauso.getText();
          fila[4] = txthoraregreso.getText();
          modelo.addRow(fila);
          limpiar();
       } catch (SQLException e) {
          System.out.println(e);
       }
       btnguardar.setEnabled(false);
       btnlimpiar.setEnabled(false);
       actualizarbd();
       desactivarCajas();
     }
  }
  private void btnmodificarActionPerformed(java.awt.event.ActionEvent evt) {
   int Fila = tblprestamo.getSelectedRow();
     PreparedStatement ps = null;
     if (datefecha.getDate()==null || txthorauso.getText().isEmpty() ||
txthoraregreso.getText().isEmpty()) {
       JOptionPane.showMessageDialog(null, "Favor de llenar todos los campos...");
     } else {
       try {
          herramienta conexion = new herramienta();
          com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
```



```
ps = reg.prepareStatement("UPDATE prestamo SET prof_id=?, equipo_id=?,
fecha_uso=?, hora_uso=?, hora_regreso=? WHERE id_renta=?");
          String dia = Integer.toString
(datefecha.getCalendar().get(Calendar.DAY OF MONTH));
          String mes = Integer.toString
(datefecha.getCalendar().get(Calendar.MONTH)+1);
          String ano = Integer.toString (datefecha.getCalendar().get(Calendar.YEAR));
          String fecha;
          fecha = ano + "-" + mes + "-" + dia;
          txtfecha.setText(fecha);
          ps.setString(1, txtidprof.getText());
          ps.setString(2, txtidequipo.getText());
          ps.setString(3, txtfecha.getText());
          /*ps.setDate(3, Date.valueOf(txtfecha.getText()));*/
          ps.setString(4, txthorauso.getText());
          ps.setString(5, txthoraregreso.getText());
          ps.setString(6, txtid.getText());
          ps.execute();
          JOptionPane.showMessageDialog(null, "Préstamo Modificado");
          tblprestamo.setValueAt(cboxprofesor.getSelectedItem().toString(), Fila, 0);
          tblprestamo.setValueAt(cboxserie.getSelectedItem().toString(), Fila, 1);
          tblprestamo.setValueAt(txtfecha.getText(), Fila, 2);
          tblprestamo.setValueAt(txthorauso.getText(), Fila, 3);
          tblprestamo.setValueAt(txthoraregreso.getText(), Fila, 4);
          limpiar();
       } catch (SQLException e) {
          System.out.println(e);
          JOptionPane.showMessageDialog(null, "Error al Modificar Préstamo");
       btnmodificar.setEnabled(false);
       btneliminar.setEnabled(false);
       btnlimpiar.setEnabled(false);
       desactivarCajas();
  }
  private void btneliminarActionPerformed(java.awt.event.ActionEvent evt) {
     PreparedStatement ps = null;
     try {
```



```
herramienta conexion = new herramienta();
       com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar():
       int Fila = tblprestamo.getSelectedRow();
       String rfc = tblprestamo.getValueAt(Fila, 0).toString();
       ps = reg.prepareStatement("DELETE FROM prestamo WHERE id renta=?");
       //Para eliminar desde columna
       //ps.setString(1, rfc);
       ps.setString(1, txtid.getText());
       ps.execute();
       modelo.removeRow(Fila);
       JOptionPane.showMessageDialog(null, "Préstamo Eliminado");
       limpiar();
    } catch (SQLException e) {
       System.out.println(e.toString()):
       JOptionPane.showMessageDialog(null, "Error al Eliminar Préstamo");
    btnmodificar.setEnabled(false);
    btneliminar.setEnabled(false);
    btnlimpiar.setEnabled(false);
    actualizarbd();
    desactivarCajas();
  }
  private void btnlimpiarActionPerformed(java.awt.event.ActionEvent evt) {
          limpiar();
        btnguardar.setEnabled(false);
    btnmodificar.setEnabled(false);
    btneliminar.setEnabled(false);
    /*desactivarNav();*/
    desactivarCajas();
    btnlimpiar.setEnabled(false);
  }
  private void btninfoActionPerformed(java.awt.event.ActionEvent evt) {
  JOptionPane.showMessageDialog(null, "¿Qué hay de nuevo?\n"
        + "Opción de seleccionar la fecha desde el calendario integrado.");
  }
  private void btnsalirActionPerformed(java.awt.event.ActionEvent evt) {
  dispose();
```



```
private void cboxprofesorActionPerformed(java.awt.event.ActionEvent evt) {
            try {
       PreparedStatement ps = null;
       ResultSet rs = null;
       herramienta conexion = new herramienta();
       Connection reg = conexion.conectar();
       ps = reg.prepareStatement("SELECT id prof FROM profesor WHERE nombre =
?");
       ps.setString(1, cboxprofesor.getSelectedItem().toString());
       rs=ps.executeQuery();
       if (rs.next()) {
         txtidprof.setText(rs.getString("id_prof"));
       } else {
         /*JOptionPane.showMessageDialog(null, "No existe el profesor");*/
    } catch (SQLException e) {
       System.err.println(e.toString());
    }
  }
  private void cboxserieActionPerformed(java.awt.event.ActionEvent evt) {
            try {
       PreparedStatement ps = null;
       ResultSet rs = null;
       herramienta conexion = new herramienta();
       Connection reg = conexion.conectar();
       ps = reg.prepareStatement("SELECT id_equipo FROM equipo WHERE serie =
?");
       ps.setString(1, cboxserie.getSelectedItem().toString());
       rs=ps.executeQuery();
       if (rs.next()) {
         txtidequipo.setText(rs.getString("id_equipo"));
       } else {
         /*JOptionPane.showMessageDialog(null, "No existe el profesor");*/
```



```
}
    } catch (SQLException e) {
       System.err.println(e.toString());
    }
  }
  private void tblprestamoMouseClicked(java.awt.event.MouseEvent evt) {
     PreparedStatement ps = null;
     ResultSet rs = null;
    try {
       herramienta conexion = new herramienta();
       com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar();
       int Fila = tblprestamo.getSelectedRow();
       String id_renta = tblprestamo.getValueAt(Fila, 5).toString();
       ps = reg.prepareStatement("SELECT id_renta, nombre, serie, fecha_uso,
hora_uso, hora_regreso FROM prestamo, profesor, equipo WHERE prestamo.prof_id =
profesor.id prof && prestamo.equipo id = equipo.id equipo && id renta=?");
       ps.setString(1, id renta);
       rs = ps.executeQuery();
       while (rs.next()) {
         txtid.setText(rs.getString("id_renta"));
         cboxprofesor.setSelectedItem(rs.getString("nombre"));
         cboxserie.setSelectedItem(rs.getString("serie"));
         datefecha.setDate(new Date(rs.getDate("fecha uso").getTime()));
         txthorauso.setText(rs.getString("hora_uso"));
         txthoraregreso.setText(rs.getString("hora regreso"));
       }
    } catch (SQLException e) {
       System.out.println(e.toString());
    /*desactivarNav();*/
     activarCajas();
    btnguardar.setEnabled(false);
    btnmodificar.setEnabled(true);
    btneliminar.setEnabled(true);
    btnlimpiar.setEnabled(true);
  }
  private void tblprestamoKeyReleased(java.awt.event.KeyEvent evt) {
```



```
if (evt.getKeyCode() == KeyEvent.VK_DOWN || (evt.getKeyCode() ==
KeyEvent.VK_UP)) {
       PreparedStatement ps = null;
       ResultSet rs = null;
       try {
         herramienta conexion = new herramienta();
         com.mysql.jdbc.Connection reg = (com.mysql.jdbc.Connection)
conexion.conectar():
         int Fila = tblprestamo.getSelectedRow();
         String id_renta = tblprestamo.getValueAt(Fila, 5).toString();
         ps = reg.prepareStatement("SELECT id renta, nombre, serie, fecha uso,
hora_uso, hora_regreso FROM prestamo, profesor, equipo WHERE prestamo.prof_id =
profesor.id prof && prestamo.equipo id = equipo.id equipo && id renta=?");
         ps.setString(1, id_renta);
         rs = ps.executeQuery();
         while (rs.next()) {
            txtid.setText(rs.getString("id renta"));
            cboxprofesor.setSelectedItem(rs.getString("nombre"));
            cboxserie.setSelectedItem(rs.getString("serie"));
            datefecha.setDate(new Date(rs.getDate("fecha_uso").getTime()));
            txthorauso.setText(rs.getString("hora_uso"));
            txthoraregreso.setText(rs.getString("hora_regreso"));
       } catch (SQLException e) {
          System.out.println(e.toString());
       /*desactivarNav();*/
       activarCajas();
       btnguardar.setEnabled(false);
       btnmodificar.setEnabled(true);
       btneliminar.setEnabled(true);
       btnlimpiar.setEnabled(true);
    }
  }
  private void btnfechaActionPerformed(java.awt.event.ActionEvent evt) {
     JOptionPane.showMessageDialog(null, "La fecha debe ir en formato
'DD/MM/AAAA'");
  private void btnhorasActionPerformed(java.awt.event.ActionEvent evt) {
```



```
JOptionPane.showMessageDialog(null, "Las horas deben ir en formato 'HH:MM:SS'");
  private void jbtnbackprActionPerformed(java.awt.event.ActionEvent evt) {
  app mostrar = new app();
  mostrar.setSize(960, 640);
  mostrar.show();
  mostrar.setLocationRelativeTo(null);
  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 ("Windows".equals(info.getName())) {
            javax.swing.UIManager.setLookAndFeel(info.getClassName());
            break:
          }
     } catch (ClassNotFoundException ex) {
java.util.logging.Logger.getLogger(tb_prestamo.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
     } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(tb_prestamo.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
     } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(tb_prestamo.class.getName()).log(java.util.logging.Lev
el.SEVERE, null, ex);
     } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(tb_prestamo.class.getName()).log(java.util.logging.Lev
el.SEVERE. null. ex):
     //</editor-fold>
```



```
/* Create and display the form */
  java.awt.EventQueue.invokeLater(new Runnable() {
     public void run() {
       new tb_prestamo().setVisible(true);
  });
}
// Variables declaration - do not modify
private javax.swing.JButton btnbuscar;
private javax.swing.JButton btneliminar;
private javax.swing.JButton btnfecha;
private javax.swing.JButton btnguardar;
private javax.swing.JButton btnhoras;
private javax.swing.JButton btninfo;
private javax.swing.JButton btnlimpiar;
private javax.swing.JButton btnmodificar;
private javax.swing.JButton btnnuevo;
private javax.swing.JButton btnsalir;
private javax.swing.JComboBox<String> cboxprofesor;
private javax.swing.JComboBox<String> cboxserie;
private com.toedter.calendar.JDateChooser datefecha:
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JButton jbtnbackpr;
private javax.swing.JLabel lblautor;
private javax.swing.JLabel lblbusqeda_fecha;
private javax.swing.JLabel lblfecha;
private javax.swing.JLabel lblhoraregreso;
private javax.swing.JLabel lblhorauso;
private javax.swing.JLabel lbllogo;
private javax.swing.JLabel lblprofesor;
private javax.swing.JLabel lblserie;
private javax.swing.JLabel lblversion;
private javax.swing.JTable tblprestamo;
private javax.swing.JTextField txtbusqueda serie;
private javax.swing.JTextField txtfecha;
private javax.swing.JTextField txthoraregreso;
private javax.swing.JTextField txthorauso;
private javax.swing.JTextField txtid;
private javax.swing.JTextField txtidequipo;
private javax.swing.JTextField txtidprof;
// End of variables declaration
```

}



#### Administrador

```
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
package sabes equipo;
import javax.swing.JOptionPane;
* @author ivanhg
public class Administrador extends javax.swing.JFrame {
  /**
   * Creates new form Administrador
  public Administrador() {
     initComponents();
     this.setLocationRelativeTo(null);
  }
   * This method is called from within the constructor to initialize the form.
   * WARNING: Do NOT modify this code. The content of this method is always
   * regenerated by the Form Editor.
   */
  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">
  private void initComponents() {
     ibtnequipo A = new javax.swing.JButton();
     iLabel1 = new javax.swing.JLabel();
     jLabel2 = new javax.swing.JLabel();
     itxtusuario = new javax.swing.JTextField();
     jtxtpassword = new javax.swing.JTextField();
     jbtninfo_A = new javax.swing.JButton();
     jbtnsalir A = new javax.swing.JButton();
     jbtnback_A = new javax.swing.JButton();
     jbtnprofesor_A = new javax.swing.JButton();
     jlblicon = new javax.swing.JLabel();
     ilblwall A = new javax.swing.JLabel();
     setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```



```
getContentPane().setLayout(null);
    jbtnequipo A.setFont(new java.awt.Font("Lucida Grande", 0, 16)); // NOI18N
    ibtnequipo A.setText("Equipo");
    jbtnequipo_A.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
         jbtnequipo AActionPerformed(evt);
       }
    });
     getContentPane().add(jbtnequipo A);
    jbtnequipo_A.setBounds(370, 390, 98, 40);
    jLabel1.setFont(new java.awt.Font("Lucida Grande", 0, 16)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
    jLabel1.setText("Usuario");
    getContentPane().add(jLabel1);
    jLabel1.setBounds(290, 280, 60, 20):
    jLabel2.setFont(new java.awt.Font("Lucida Grande", 0, 16)); // NOI18N
    jLabel2.setForeground(new java.awt.Color(255, 255, 255));
    jLabel2.setText("Contraseña");
     getContentPane().add(jLabel2);
    jLabel2.setBounds(260, 320, 89, 20);
    jtxtusuario.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
         jtxtusuarioActionPerformed(evt);
       }
    });
     getContentPane().add(itxtusuario);
    jtxtusuario.setBounds(370, 280, 220, 26);
     getContentPane().add(jtxtpassword);
    jtxtpassword.setBounds(370, 320, 220, 26);
    jbtninfo_A.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/info.png"))); // NOI18N
     jbtninfo A.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
         ibtninfo AActionPerformed(evt):
       }
    });
     getContentPane().add(jbtninfo_A);
    ibtninfo A.setBounds(840, 10, 48, 44);
    jbtnsalir_A.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/salir.png"))); // NOI18N
     jbtnsalir A.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
```



```
jbtnsalir_AActionPerformed(evt);
       }
     });
     getContentPane().add(jbtnsalir_A);
     jbtnsalir_A.setBounds(900, 10, 48, 44);
     jbtnback A.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/back 32.png"))); // NOI18N
     ibtnback A.setText("Atras"):
     jbtnback A.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jbtnback_AActionPerformed(evt);
       }
     });
     getContentPane().add(jbtnback_A);
     jbtnback A.setBounds(10, 10, 90, 44);
     jbtnprofesor_A.setFont(new java.awt.Font("Lucida Grande", 0, 16)); // NOI18N
     ibtnprofesor A.setText("Profesor");
     jbtnprofesor A.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jbtnprofesor AActionPerformed(evt):
       }
     });
     getContentPane().add(jbtnprofesor_A);
     ibtnprofesor A.setBounds(490, 390, 96, 40);
     ilblicon.setIcon(new
javax.swinq.lmaqelcon(getClass().getResource("/img/icon 150.png"))); // NOI18N
     getContentPane().add(ilblicon);
     ilblicon.setBounds(400, 90, 150, 160);
     ilblwall A.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/wall.jpg"))); // NOI18N
     jlblwall_A.setText("jLabel3");
     getContentPane().add(ilblwall A);
     ilblwall A.setBounds(0, 0, 960, 640);
     pack();
  }// </editor-fold>
  private void jbtnback_AActionPerformed(java.awt.event.ActionEvent evt) {
  app mostrar = new app():
  mostrar.setSize(960, 640);
  mostrar.show();
  mostrar.setLocationRelativeTo(null);
  dispose();
  }
```



```
private void jbtnequipo_AActionPerformed(java.awt.event.ActionEvent evt) {
   if(itxtusuario.getText().length()==0){
       JOptionPane.showMessageDialog(null, "Favor de ingresar tu usuario...");
     }
     else{
     }
     if(jtxtpassword.getText().length()==0){
       JOptionPane.showMessageDialog(null, "Favor de ingresar tu contraseña...");
     }
     else{
     }
     String user="Ivan";//USER predeterminado
     String pass="1234";//PASS predeterminado
     //Validacion de NIP
     String passok;
     String userok;
     passok = itxtpassword.getText();
     userok = jtxtusuario.getText();
     if(passok==null){
     }else{
       if((!passok.equals("")) && (!userok.equals(""))){
          if((passok.equals(pass)) && (userok.equals(user))){
            tb_equipo mostrarequipo = new tb_equipo ();
            mostrarequipo.setSize(1024, 622);
            mostrarequipo.setVisible(true);
            dispose():
            //Fin Validacion NIP
          //NIP incorrecto
          else{
            JOptionPane.showMessageDialog(null, "El usuario y/o contraseña son
incorrectos...");
          //Fin NIP incorrecto
       }
    }
  }
```



```
private void jbtnprofesor_AActionPerformed(java.awt.event.ActionEvent evt) {
  if(jtxtusuario.getText().length()==0){
       JOptionPane.showMessageDialog(null, "Favor de ingresar tu usuario...");
     }
     else{
     }
     if(jtxtpassword.getText().length()==0){
       JOptionPane.showMessageDialog(null, "Favor de ingresar tu contraseña...");
     }
     else{
     }
     String user="Ivan";//USER predeterminado
     String pass="1234";//PASS predeterminado
     //Validacion de NIP
     String passok;
     String userok;
     passok = jtxtpassword.getText();
     userok = jtxtusuario.getText();
     if(passok==null){
     }else{
       if((!passok.equals("")) && (!userok.equals(""))){
          if((passok.equals(pass)) && (userok.equals(user))){
            tb_profesor mostrarprofesor = new tb_profesor ();
            mostrarprofesor.setSize(1024, 600);
            mostrarprofesor.setVisible(true);
            dispose():
            //Fin Validacion NIP
          //NIP incorrecto
          else{
            JOptionPane.showMessageDialog(null, "El usuario y/o contraseña son
incorrectos...");
          //Fin NIP incorrecto
     }
```



```
}
  private void jbtninfo_AActionPerformed(java.awt.event.ActionEvent evt) {
  JOptionPane.showMessageDialog(null, "Usuario: Ivan \nPassword: 1234");
  private void jbtnsalir AActionPerformed(java.awt.event.ActionEvent evt) {
  dispose();
  private void jtxtusuarioActionPerformed(java.awt.event.ActionEvent evt) {
     // TODO add your handling code here:
   * @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.Le
vel.SEVERE, null, ex);
     } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(Administrador.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
     } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(Administrador.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
     } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```



```
java.util.logging.Logger.getLogger(Administrador.class.getName()).log(java.util.logging.Le
vel.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.JLabel jLabel1;
  private javax.swing.JLabel jLabel2;
  private javax.swing.JButton jbtnback_A;
  private javax.swing.JButton jbtnequipo_A;
  private javax.swing.JButton jbtninfo_A;
  private javax.swing.JButton jbtnprofesor_A;
  private javax.swing.JButton jbtnsalir A;
  private javax.swing.JLabel ilblicon;
  private javax.swing.JLabel jlblwall A;
  private javax.swing.JTextField jtxtpassword;
  private javax.swing.JTextField jtxtusuario;
  // End of variables declaration
}
```



# app

```
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
package sabes equipo;
import java.awt.Color;
import java.io.IOException;
import java.net.URISvntaxException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JButton;
* @author ivanhg
public class app extends javax.swing.JFrame {
   * Creates new form app
  public app() {
     initComponents();
     this.setLocationRelativeTo(null);
  }
   * This method is called from within the constructor to initialize the form.
   * WARNING: Do NOT modify this code. The content of this method is always
   * regenerated by the Form Editor.
   */
  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">
  private void initComponents() {
     jSeparator2 = new javax.swing.JSeparator();
     btnprofesorx = new javax.swing.JButton();
     btnadministradorx = new javax.swing.JButton();
     jbtnsoporte = new javax.swing.JButton();
     jlblProfesores = new javax.swing.JLabel();
     ilblAdministrador = new javax.swing.JLabel();
     ilblSoporte = new javax.swing.JLabel();
     jlblProf_desc = new javax.swing.JLabel();
```



```
jlblAdm_desc = new javax.swing.JLabel();
     jlblSop_desc = new javax.swing.JLabel();
     ilblf1 = new javax.swing.JLabel();
     ilblf2 = new javax.swing.JLabel();
     jlblf3 = new javax.swing.JLabel();
     jbtncerrarapp = new javax.swing.JButton();
     ilbltitle = new javax.swing.JLabel();
     ilbllogo = new javax.swing.JLabel();
     iLabel1 = new iavax.swing.JLabel():
     jlblProf parr = new javax.swing.JLabel();
     jlblAdm_parr = new javax.swing.JLabel();
     jlblSop_parr = new javax.swing.JLabel();
     wall = new javax.swing.JLabel();
     setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
     getContentPane().setLayout(null);
     btnprofesorx.setBackground(new java.awt.Color(0, 0, 0));
     btnprofesorx.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/profesorx.png"))); // NOI18N
     btnprofesorx.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnprofesorxActionPerformed(evt);
       }
     });
     getContentPane().add(btnprofesorx);
     btnprofesorx.setBounds(10, 120, 140, 140);
     btnadministradorx.setBackground(new java.awt.Color(0, 0, 0));
     btnadministradorx.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/img/administrador.png"))); // NOI18N
     btnadministradorx.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          btnadministradorxActionPerformed(evt);
       }
     });
     getContentPane().add(btnadministradorx);
     btnadministradorx.setBounds(10, 290, 140, 140);
     jbtnsoporte.setBackground(new java.awt.Color(0, 0, 0));
     jbtnsoporte.setlcon(new
javax.swing.ImageIcon(getClass().getResource("/img/support.png"))); // NOI18N
     ibtnsoporte.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
          jbtnsoporteActionPerformed(evt);
     });
     getContentPane().add(jbtnsoporte);
```



jbtnsoporte.setBounds(10, 460, 140, 140); ilblProfesores.setFont(new java.awt.Font("Lucida Grande", 0, 22)); // NOI18N ilblProfesores.setForeground(new java.awt.Color(255, 255, 255)); jlblProfesores.setText("Profesores"); getContentPane().add(jlblProfesores); ilblProfesores.setBounds(170, 130, 170, 27); ilblAdministrador.setFont(new java.awt.Font("Lucida Grande", 0, 22)); // NOI18N jlblAdministrador.setForeground(new java.awt.Color(255, 255, 255)); jlblAdministrador.setText("Administrador"); getContentPane().add(jlblAdministrador); ilblAdministrador.setBounds(170, 300, 160, 27); jlblSoporte.setFont(new java.awt.Font("Lucida Grande", 0, 22)); // NOI18N jlblSoporte.setForeground(new java.awt.Color(255, 255, 255)); ilblSoporte.setText("Soporte"); getContentPane().add(jlblSoporte); ilblSoporte.setBounds(170, 470, 90, 27); jlblProf\_desc.setFont(new java.awt.Font("Lucida Grande", 0, 16)); // NOI18N jlblProf desc.setForeground(new java.awt.Color(204, 204, 204)); ilblProf desc.setText("Préstamo de equipo"): getContentPane().add(jlblProf desc); jlblProf desc.setBounds(170, 160, 160, 20); ilblAdm\_desc.setFont(new java.awt.Font("Lucida Grande", 0, 16)); // NOI18N jlblAdm desc.setForeground(new java.awt.Color(204, 204, 204)); ilblAdm desc.setText("Equipo & Profesores"); getContentPane().add(jlbIAdm desc); jlblAdm desc.setBounds(170, 330, 158, 20); ilblSop\_desc.setFont(new java.awt.Font("Lucida Grande", 0, 16)); // NOI18N jlblSop\_desc.setForeground(new java.awt.Color(204, 204, 204)); ilblSop\_desc.setText("Web"); getContentPane().add(ilblSop desc); ilblSop desc.setBounds(170, 500, 80, 20); ilblf1.setlcon(new javax.swing.lmagelcon(getClass().getResource("/img/f 32.png"))); // NOI18N getContentPane().add(jlblf1); jlblf1.setBounds(880, 130, 32, 50); jlblf2.setlcon(new javax.swing.lmagelcon(getClass().getResource("/img/f\_32.png"))); // NOI18N getContentPane().add(jlblf2); ilblf2.setBounds(880, 300, 40, 50);



```
jlblf3.setlcon(new javax.swing.lmagelcon(getClass().getResource("/img/f_32.png")));
// NOI18N
     getContentPane().add(ilblf3);
     ilblf3.setBounds(880, 470, 40, 50);
    jbtncerrarapp.setBackground(new java.awt.Color(255, 0, 51));
    jbtncerrarapp.setForeground(new java.awt.Color(255, 0, 0));
    jbtncerrarapp.setlcon(new
javax.swing.ImageIcon(getClass().getResource("/img/salir.png"))); // NOI18N
    jbtncerrarapp.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
         jbtncerrarappActionPerformed(evt);
       }
    });
     getContentPane().add(jbtncerrarapp);
    jbtncerrarapp.setBounds(900, 10, 40, 40);
    jlbltitle.setFont(new java.awt.Font("Lucida Grande", 0, 20)); // NOI18N
    ilbltitle.setForeground(new java.awt.Color(255, 255, 255));
    ilbltitle.setText("SABES");
    getContentPane().add(jlbltitle);
     ilbltitle.setBounds(470, 20, 60, 25);
    ilbllogo.setlcon(new
javax.swing.ImageIcon(getClass().getResource("/img/sabes 36.png"))); // NOI18N
    jlbllogo.setText("jLabel4");
     getContentPane().add(ilbllogo);
    ilbllogo.setBounds(420, 10, 40, 40);
    jLabel1.setForeground(new java.awt.Color(51, 51, 51));
    ¡Label1.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/img/gray1.jpg"))); // NOI18N
    iLabel1.setText("iLabel1");
    getContentPane().add(jLabel1);
    jLabel1.setBounds(0, 0, 960, 60);
    jlblProf parr.setForeground(new java.awt.Color(102, 102, 102));
    jlblProf parr.setText("Solo profesores registrados");
    getContentPane().add(jlblProf parr);
    jlblProf parr.setBounds(170, 180, 180, 16);
    jlblAdm_parr.setForeground(new java.awt.Color(102, 102, 102));
    ilblAdm parr.setText("Altas y bajas");
    getContentPane().add(jlblAdm_parr);
    jlblAdm_parr.setBounds(170, 350, 90, 16);
    jlblSop_parr.setForeground(new java.awt.Color(102, 102, 102));
    jlblSop_parr.setText("Manual");
```



```
getContentPane().add(jlblSop_parr);
    jlblSop_parr.setBounds(170, 520, 50, 16);
    wall.setIcon(new javax.swing.ImageIcon(getClass().getResource("/img/wall.jpg"))); //
NOI18N
    wall.setText("jLabel1");
     getContentPane().add(wall);
    wall.setBounds(0, 0, 960, 660);
    pack();
     setLocationRelativeTo(null);
  }// </editor-fold>
  private void btnprofesorxActionPerformed(java.awt.event.ActionEvent evt) {
  btnprofesorx.setBackground(Color.black);
    tb prestamo mostrarprestamo = new tb prestamo ();
    mostrarprestamo.setSize(1043, 630);
    mostrarprestamo.setVisible(true);
    dispose():
  }
  private void btnadministradorxActionPerformed(java.awt.event.ActionEvent evt) {
  btnadministradorx.setBackground(Color.black);
     Administrador mostraradministrador = new Administrador ();
     mostraradministrador.setSize(960, 640);
    mostraradministrador.setVisible(true);
    mostraradministrador.setLocationRelativeTo(null);
    dispose();
  }
  public void goToURL(String URL) throws IOException{
      if (java.awt.Desktop.isDesktopSupported()) {
       java.awt.Desktop desktop = java.awt.Desktop.getDesktop();
       if (desktop.isSupported(java.awt.Desktop.Action.BROWSE)) {
         try {
            java.net.URI uri = new java.net.URI(URL);
            desktop.browse(uri);
         } catch (URISyntaxException | IOException ex) {
            Logger.getLogger(app.class.getName()).log(Level.SEVERE, null, ex);
         }
       }
    }
  private void jbtnsoporteActionPerformed(java.awt.event.ActionEvent evt) {
```



```
jbtnsoporte.setBackground(Color.black);
     try {
       goToURL("http://app.linktu.xyz/");
     } catch (IOException ex) {
       Logger.getLogger(app.class.getName()).log(Level.SEVERE, null, ex);
     }
  }
  private void jbtncerrarappActionPerformed(java.awt.event.ActionEvent evt) {
  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(app.class.getName()).log(java.util.logging.Level.SEVE
RE, null, ex);
     } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(app.class.getName()).log(java.util.logging.Level.SEVE
RE. null. ex):
     } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(app.class.getName()).log(java.util.logging.Level.SEVE
RE, null, ex);
     } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(app.class.getName()).log(java.util.logging.Level.SEVE
RE, null, ex);
     }
```



```
//</editor-fold>
  /* Create and display the form */
  java.awt.EventQueue.invokeLater(new Runnable() {
     public void run() {
       new app().setVisible(true);
  });
// Variables declaration - do not modify
private javax.swing.JButton btnadministradorx;
private javax.swing.JButton btnprofesorx:
private javax.swing.JLabel jLabel1;
private javax.swing.JSeparator jSeparator2;
private javax.swing.JButton jbtncerrarapp;
private javax.swing.JButton jbtnsoporte;
private javax.swing.JLabel jlblAdm_desc;
private javax.swing.JLabel ilblAdm parr;
private javax.swing.JLabel jlblAdministrador;
private javax.swing.JLabel jlblProf_desc;
private javax.swing.JLabel jlblProf parr;
private javax.swing.JLabel jlblProfesores;
private javax.swing.JLabel jlblSop desc;
private javax.swing.JLabel jlblSop_parr;
private javax.swing.JLabel jlblSoporte;
private javax.swing.JLabel jlblf1;
private javax.swing.JLabel jlblf2;
private javax.swing.JLabel jlblf3;
private javax.swing.JLabel jlbllogo;
private javax.swing.JLabel jlbltitle;
private javax.swing.JLabel wall;
// End of variables declaration
```

}