UNIVERSIDAD POLITÉCNICA SALESIANA ECUADOR	**PRÁCTICA DE LABORATORIO**

CARRERA: COMPUTACION		**ASIGNATURA**: PROGRAMCION APLICADA

NRO. PRÁCTICA:	1.1	**TÍTULO PROYECTO**: Prueba Practica 1
		Desarrollo e implementación de un sistema de gestión de matrimonios de la ciudad de Cuenca

OBJETIVO ALCANZADO:

Reforzar los conocimientos adquiridos en clase sobre la programación aplicada (Java 8, Programación genérica, Reflexión y Patrones de Diseño) en un contexto real.

ACTIVIDADES DESARROLLADAS

1. **Realizar el diagrama de clase y el programa para gestionar los matrimonios de la ciudad de Cuenca empleando las diferentes técnicas de programación revisadas en clase.**

Link GitHub:

https://github.com/adolfojara10/Practicas-de-programacion-aplicada/tree/master

Primero se presentará el diagrama de clases. Se adjunta la foto, pero también se la subirá al github para una mejor visualización de ella.
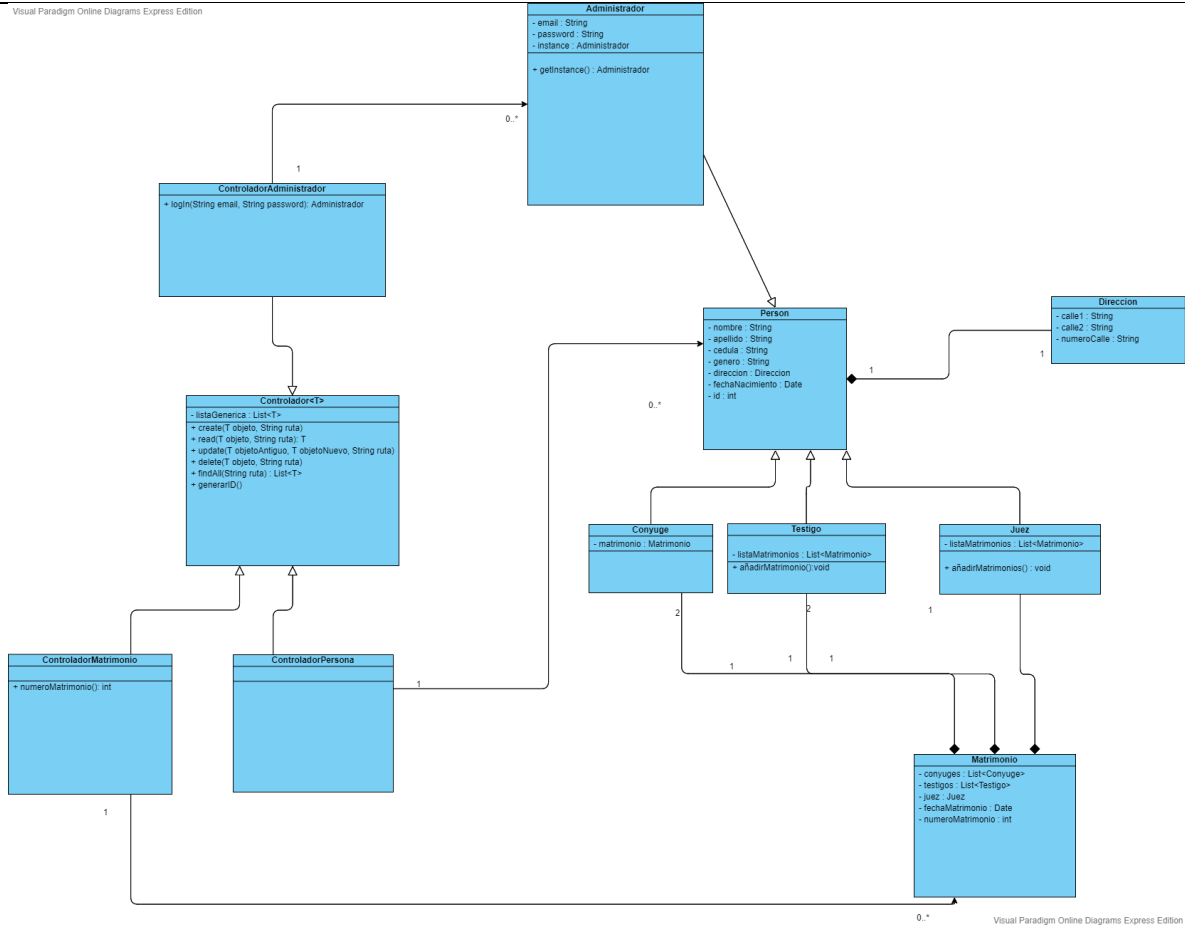
2. Informe de Actividades:

• Planteamiento y descripción del problema.

Problema: De cada matrimonio se almacena la fecha, el lugar de la celebración y los datos personales (nombre, apellido, cédula, dirección, género y fecha de nacimiento) de los contrayentes. Es importante validar la equidad de género.

Igualmente se guardar los datos personales de los dos testigos y de la autoridad civil (juez o autoridad) que formalizan el acto. Además de gestionar la seguridad a través de un sistema de Usuarios y Autentificación.

• Diagramas de Clases.
El diagrama se adjunto en el apartado anterior y también en el github.

• Patron de diseño aplicado

Se aplicaron 2 patrones de diseño:

1. Factory Method()

   Este método se lo utilizo en la clases abstracta del controlador en el método generarID(). Es método abstracto que se lo pasa a los controladores de Persona, Matrimonio, Administrador. En cada uno de los controladores anteriores se sobrescriben esos métodos.

   A continuación, pantallazos de eso:

```java
public abstract class Controlador<T> {

    private List<T> listaGenerica;
    private String ruta;

    public Controlador(String ruta) {
        listaGenerica = new ArrayList<>();
        this.ruta = ruta;
        this.cargarDatos();
    }

    public abstract int generarID();
```

```java
public class ControladorAdministrador extends Controlador{

    //private Administrador instance;

    public ControladorAdministrador(String ruta) {
        super(ruta);

    }

    @Override
    public int generarID() {
        if (super.getListaGenerica().isEmpty()) {
            return 1;
        } else {
            return (super.getListaGenerica().size() + 1);
        }
    }
```

```java
public class ControladorMatrimonio extends Controlador{

    public ControladorMatrimonio(String ruta) {
        super(ruta);
    }


    @Override
    public int generarID() {
        if (super.getListaGenerica().isEmpty()) {
            return 1;
        } else {
            return (super.getListaGenerica().size() + 1);
        }
    }
}
```

```java
public class ControladorPersona extends Controlador {

    public ControladorPersona(String ruta) {
        super(ruta);
    }


    @Override
    public int generarID() {
        if (super.getListaGenerica().isEmpty()) {
            return 1;
        } else {
            return (super.getListaGenerica().size() + 1);
        }
    }
}
```

Como podemos ver declaramos un método y lo pasamos a las demás clases para que lo utilicen, siendo esta la definición de este patrón de diseño.

2. Singleton.
Este patrón nos asegura la unicidad de una clase. Este patrón fue implementado en la clase Administrador para que solo inicie sesión una persona Administrador. Si hace el log in, las demás ventanas se le activaran, caso contrario no podrá utilizar la aplicación.
A continuación, pantallazos del código:

```java
public class Administrador extends Persona implements Serializable {

    private static final long serialVersionUID = 6529685098267757690L;

    private String email;
    private String password;
    public static Administrador instance;

    private Administrador(int id, String nombre, String apellido, String cedula, String genero,
            Direccion direccion, Date fechaNacimiento, String email, String password) {
        super(id, nombre, apellido, cedula, genero, direccion, fechaNacimiento);
        this.email = email;
        this.password = password;

    }
```

```java
public static Administrador getInstance() {
    if (Administrador.instance == null) {
        Constructor<Administrador> constructor;
        try {
            constructor = Administrador.class.getDeclaredConstructor();
            constructor.setAccessible(true);
            Administrador admin = constructor.newInstance();

            Administrador.instance = admin;

            return Administrador.instance;
        } catch (Exception e) {
            e.printStackTrace();
        }
        //.instance = new Administrador(1, "", "", "", "", "", "", "", "");

        return Administrador.instance;
    }

    return Administrador.instance;
}
```

Como podemos ver, el constructor es privado y nos creamos un atributo estático instance de la misma clase. Esté nos sirve para saber si hay o no un usuario iniciado sesión. Ahora la foto del controlador del administrador y del método log in donde se lo implementa:

```java
public Administrador logIn(String email, String password){
    List<Administrador> listaAdmins = (List<Administrador>) List.copyOf(super.getListaGenerica());

    System.out.println(listaAdmins);
    System.out.println(listaAdmins.size());

    Administrador administradorLogeado = listaAdmins.stream().filter(ad -> ad.getEmail().equals(email) &&
        ad.getPassword().equals(password)).findFirst().get();

    if(administradorLogeado != null){
        return Administrador.getInstance();
    } else {
        return null;
    }
}
```

3. Reflexión.

Está se la utilizó para poder acceder al método constructor de un administrador al momento de crear uno nuevo, o al momento de actualizarlo o eliminarlo. Esto fue muy útil ya que el método constructor es privado, por lo que era necesario aplicar este tema visto en la unidad 1.

Primero vamos a ver cuando se crea un nuevo administrador:

```java
try {
    Constructor<Administrador> constructor = Administrador.class.getDeclaredConstructor();
    constructor.setAccessible(true);
    Administrador admin = constructor.newInstance();

    admin.setId(controladorAdministrador.generarID());
    admin.setNombre(nombre);
    admin.setApellido(apellido);
    admin.setCedula(cedula);
    admin.setGenero(genero);
    admin.setFechaNacimiento(fechaNacimiento);
    admin.setDireccion(direccion);
    admin.setEmail(email);
    admin.setPassword(password);

    if (controladorAdministrador.create(admin)) {
        JOptionPane.showMessageDialog(this, "Administrador creado con exito", "Mensaje", JOptionPan
    } else {
        JOptionPane.showMessageDialog(this, "Administrador ya existente", "Error", JOptionPane.ERRO
    }

} catch (IllegalAccessException e) {
    e.printStackTrace();
```

Cuando actualizamos:

```java
try {
    Constructor<Administrador> constructor = Administrador.class.getDeclaredConstructor();
    constructor.setAccessible(true);
    Administrador admin = constructor.newInstance();

    admin.setId(controladorAdministrador.generarID());
    admin.setNombre(nombre);
    admin.setApellido(apellido);
    admin.setCedula(cedula);
    admin.setGenero(genero);
    admin.setFechaNacimiento(fechaNacimiento);
    admin.setDireccion(direccion);
    admin.setEmail(email);
    admin.setPassword(password);

    controladorAdministrador.update(admin, admin);
    JOptionPane.showMessageDialog(this, "Administrador actualizado con exito", "Mensaje", JOptionPane.
    llenarTblAdministradores();
    inicioBotones();

} catch (IllegalAccessException e) {
    e.printStackTrace();
} catch (InstantiationException ex) {
    Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
} catch (IllegalArgumentException ex) {
    Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
} catch (InvocationTargetException ex) {
    Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
```

Cuando eliminamos:

```java
try {
    Constructor<Administrador> constructor = Administrador.class.getDeclaredConstructor();
    constructor.setAccessible(true);
    Administrador admin = constructor.newInstance();

    admin.setCedula((String) txtFormattedCedula.getValue());

    controladorAdministrador.delete(admin);
    JOptionPane.showMessageDialog(this, "Administrador eliminado con exito", "Mensaje", JOptionPa
    inicioBotones();
    llenarTblAdministradores();

} catch (IllegalAccessException e) {
    e.printStackTrace();
} catch (InstantiationException ex) {
    Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
} catch (IllegalArgumentException ex) {
    Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
} catch (InvocationTargetException ex) {
    Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
} catch (NoSuchMethodException ex) {
    Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
} catch (SecurityException ex) {
    Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
}
```

4. Programación genérica.

Esto nos sirve en la clase controlador para ahorrar muchas líneas de código. Se adjunta el código de la clase Controlador:

```java
/*
 * 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 ups.edu.ec.controlador;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.util.ArrayList;
import java.util.List;

/**
 *
 * @author User
 * @param <T>
 */
public abstract class Controlador<T> {

    private List<T> listaGenerica;
    private String ruta;

    public Controlador(String ruta) {
        listaGenerica = new ArrayList<>();
        this.ruta = ruta;
        this.cargarDatos();
    }

    public abstract int generarID();

    public void cargarDatos() {
        try {
            FileInputStream archivo = new FileInputStream(ruta);
            ObjectInputStream objetoLectura = new ObjectInputStream(archivo);

            listaGenerica = (List<T>) objetoLectura.readObject();

        } catch (ClassNotFoundException e) {
            e.printStackTrace();
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
```

```java
public boolean guardarDatos(List<T> listaGuardar) {
    try {
        FileOutputStream archivo = new FileOutputStream(ruta);
        ObjectOutputStream objetoEscritura = new ObjectOutputStream(archivo);

        objetoEscritura.writeObject(listaGuardar);
        return true;
    } catch (IOException e) {
        e.printStackTrace();
    }

    return false;
}

public boolean create(T objeto) {
    if (!listaGenerica.contains(objeto)) {
        listaGenerica.add(objeto);
        return guardarDatos(listaGenerica);
    } else {
        return true;
    }
}

public T read(T objeto) {

    if (listaGenerica.contains(objeto)) {
        return (T) listaGenerica.stream().filter(obj -> obj.equals(objeto)).findFirst().get();
    } else {
        return null;
    }

}

public boolean update(T objetoAntiguo, T objetoNuevo) {
    int index = listaGenerica.indexOf(objetoAntiguo);
    listaGenerica.set(index, objetoNuevo);
    return guardarDatos(listaGenerica);
}

public boolean delete(T objeto) {
    listaGenerica.remove(objeto);
    return guardarDatos(listaGenerica);
}

public List<T> getListaGenerica() {
    return listaGenerica;
```
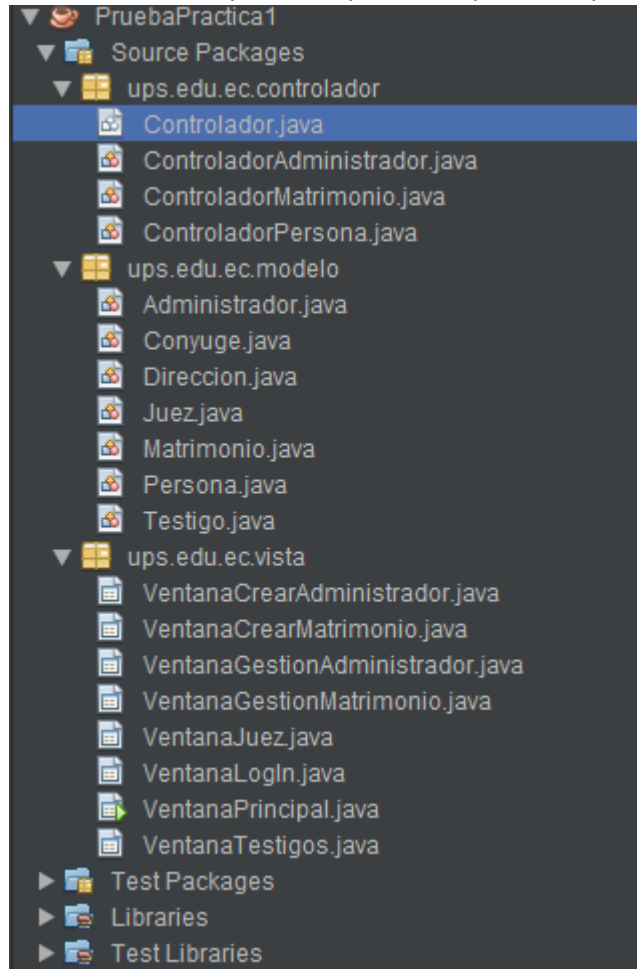
```
            }

        }
```

• **Descripcion de la solucion y pasos seguidos.**

Para solucionar el problema planteado para esta prueba se crearon los siguientes paquetes y clases:

```
▼ 😠 PruebaPractica1
    ▼ 📁 Source Packages
        ▼ 📦 ups.edu.ec.controlador
            🗒 Controlador.java
            🗒 ControladorAdministrador.java
            🗒 ControladorMatrimonio.java
            🗒 ControladorPersona.java
        ▼ 📦 ups.edu.ec.modelo
            🗒 Administrador.java
            🗒 Conyuge.java
            🗒 Direccion.java
            🗒 Juez.java
            🗒 Matrimonio.java
            🗒 Persona.java
            🗒 Testigo.java
        ▼ 📦 ups.edu.ec.vista
            🗒 VentanaCrearAdministrador.java
            🗒 VentanaCrearMatrimonio.java
            🗒 VentanaGestionAdministrador.java
            🗒 VentanaGestionMatrimonio.java
            🗒 VentanaJuez.java
            🗒 VentanaLogIn.java
            🗒 VentanaPrincipal.java
            🗒 VentanaTestigos.java
    ▶ 📁 Test Packages
    ▶ 📁 Libraries
    ▶ 📁 Test Libraries
```

Vamos a comenzar con las clases del paquete modelo. Primero la clase Dirección, la cual tiene una relación con Persona:

```
/*
 * To change this license header, choose License Headers in Project Properties.
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 * and open the template in the editor.
 */
package ups.edu.ec.modelo;

import java.io.Serializable;
```

	VICERRECTORADO DOCENTE	**Código:** GUIA-PRL-001
UNIVERSIDAD POLITÉCNICA **SALESIANA** ECUADOR	CONSEJO ACADÉMICO	**Aprobación:** 2016/04/06

Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación

```
/**
 *
 * @author User
 */
public class Direccion implements Serializable{

    private static final long serialVersionUID = 6529685098267757692L;

    private String calle1;
    private String calle2;
    private String numeroCalle;

    public Direccion(String calle1, String calle2, String numeroCalle) {
        this.calle1 = calle1;
        this.calle2 = calle2;
        this.numeroCalle = numeroCalle;
    }

    public String getCalle1() {
        return calle1;
    }

    public void setCalle1(String calle1) {
        this.calle1 = calle1;
    }

    public String getCalle2() {
        return calle2;
    }

    public void setCalle2(String calle2) {
        this.calle2 = calle2;
    }

    public String getNumeroCalle() {
        return numeroCalle;
    }

    public void setNumeroCalle(String numeroCalle) {
        this.numeroCalle = numeroCalle;
    }

    @Override
    public String toString() {
        return "Direccion:" + "calle1=" + calle1 + ", calle2=" + calle2 + ", numeroCalle=" + numeroCalle;
    }
```

```
}

Segundo Persona que es la clase padre de: Administrador, Testigo, Cónyuge, Juez.
/*
 * 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 ups.edu.ec.modelo;

import java.io.Serializable;
import java.util.Date;
import java.util.Objects;

/**
 *
 * @author User
 */
public class Persona implements Serializable {

    private int id;
    private String nombre;
    private String apellido;
    private String cedula;
    private String genero;
    private Direccion direccion;
    private Date fechaNacimiento;

    private static final long serialVersionUID = 6529685098267757695L;

    public Persona(int id, String nombre, String apellido, String cedula, String genero, Direccion direccion, Date
fechaNacimiento) {
        this.id = id;
        this.nombre = nombre;
        this.apellido = apellido;
        this.cedula = cedula;
        this.genero = genero;
        this.direccion = direccion;
        this.fechaNacimiento = fechaNacimiento;
    }

    public Persona() {

    }

    public Persona(String cedula){
```

```java
        this.cedula = cedula;
    }
    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getNombre() {
        return nombre;
    }

    public void setNombre(String nombre) {
        this.nombre = nombre;
    }

    public String getApellido() {
        return apellido;
    }

    public void setApellido(String apellido) {
        this.apellido = apellido;
    }

    public String getCedula() {
        return cedula;
    }

    public void setCedula(String cedula) {
        this.cedula = cedula;
    }

    public String getGenero() {
        return genero;
    }

    public void setGenero(String genero) {
        this.genero = genero;
    }

    public Direccion getDireccion() {
        return direccion;
    }

    public void setDireccion(Direccion direccion) {
```

```java
        this.direccion = direccion;
    }

    public Date getFechaNacimiento() {
        return fechaNacimiento;
    }

    public void setFechaNacimiento(Date fechaNacimiento) {
        this.fechaNacimiento = fechaNacimiento;
    }

    @Override
    public int hashCode() {
        int hash = 3;
        hash = 67 * hash + Objects.hashCode(this.cedula);
        return hash;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        final Persona other = (Persona) obj;
        if (!Objects.equals(this.cedula, other.cedula)) {
            return false;
        }
        return true;
    }



    @Override
    public String toString() {
        return "Persona:" + "nombre=" + nombre + ", apellido=" + apellido
            + ", cedula=" + cedula + ", genero=" + genero + ", direccion="
            + direccion + ", fechaNacimiento=" + fechaNacimiento;
    }

}
```

Clase Administrador:

```java
/*
 * 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 ups.edu.ec.modelo;

import java.io.Serializable;
import java.lang.System.Logger;
import java.lang.reflect.Constructor;
import java.util.Date;

/**
 *
 * @author User
 */
public class Administrador extends Persona implements Serializable {

    private static final long serialVersionUID = 6529685098267757690L;

    private String email;
    private String password;
    public static Administrador instance;

    private Administrador(int id, String nombre, String apellido, String cedula, String genero,
            Direccion direccion, Date fechaNacimiento, String email, String password) {
        super(id, nombre, apellido, cedula, genero, direccion, fechaNacimiento);
        this.email = email;
        this.password = password;

    }

    private Administrador() {

    }

    public Administrador(String cedula){
        super(cedula);
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
```

```java
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    public static Administrador getInstance() {
        if (Administrador.instance == null) {
            Constructor<Administrador> constructor;
            try {
                constructor = Administrador.class.getDeclaredConstructor();
                constructor.setAccessible(true);
                Administrador admin = constructor.newInstance();

                Administrador.instance = admin;

                return Administrador.instance;
            } catch (Exception e) {
                e.printStackTrace();
            }
            //.instance = new Administrador(1, "", "", "", "", "", "", "", "");

            return Administrador.instance;
        }

        return Administrador.instance;
    }

    public void setInstance(Administrador instance) {
        Administrador.instance = instance;
    }


    @Override
    public int hashCode() {
        return super.hashCode(); //To change body of generated methods, choose Tools | Templates.
    }

    @Override
    public boolean equals(Object obj) {
        return super.equals(obj); //To change body of generated methods, choose Tools | Templates.
    }
```

```java
    @Override
    public String toString() {
        return super.toString() + "Administrador:" + "email=" + email + ", password=" + password;
    }

}
```

Clase Cónyuge:
```java
/*
 * 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 ups.edu.ec.modelo;

import java.io.Serializable;
import java.util.Date;

/**
 *
 * @author User
 */
public class Conyuge extends Persona implements Serializable{

    private Matrimonio matrimonio;

    private static final long serialVersionUID = 6529685098267757691L;

    public Conyuge(int id, String nombre, String apellido, String cedula, String genero,
            Direccion direccion, Date fechaNacimiento) {
        super(id, nombre, apellido, cedula, genero, direccion, fechaNacimiento);
    }

    public Matrimonio getMatrimonio() {
        return matrimonio;
    }

    public void setMatrimonio(Matrimonio matrimonio) {
        this.matrimonio = matrimonio;
    }

    @Override
    public String toString() {
        return super.toString() + "Conyuge:" + "matrimonio=" + matrimonio;
    }
}
```

```
        }

    Clase Testigo:
    /*
     * 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 ups.edu.ec.modelo;

    import java.io.Serializable;
    import java.util.ArrayList;
    import java.util.List;
    import java.util.Date;

    /**
     *
     * @author User
     */
    public class Testigo extends Persona implements Serializable {

        private List<Matrimonio> listaMatrimonios;

        private static final long serialVersionUID = 6529685098267757696L;

        public Testigo(int id, String nombre, String apellido, String cedula, String genero, Direccion direccion, Date
    fechaNacimiento) {
            super(id, nombre, apellido, cedula, genero, direccion, fechaNacimiento);
            listaMatrimonios = new ArrayList<>();
        }

        public void añadirMatrimonio(Matrimonio matrimonio) {
            listaMatrimonios.add(matrimonio);
        }

        public void updateMatrimonio(Matrimonio matrimonio) {
            int posicion = listaMatrimonios.indexOf(matrimonio);
            listaMatrimonios.set(posicion, matrimonio);
        }

        @Override
        public String toString() {
            return super.toString() + "Testigo:" + "listaMatrimonios=" + listaMatrimonios;
```

```
    }

}

Clase Juez:

/*
 * 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 ups.edu.ec.modelo;

import java.io.Serializable;
import java.util.ArrayList;
import java.util.Date;
import java.util.List;

/**
 *
 * @author User
 */
public class Juez extends Persona implements Serializable {

    private List<Matrimonio> listaMatrimonios;

    private static final long serialVersionUID = 6529685098267757693L;

    public Juez(int id, String nombre, String apellido, String cedula, String genero, Direccion direccion, Date
fechaNacimiento) {
        super(id, nombre, apellido, cedula, genero, direccion, fechaNacimiento);
        listaMatrimonios = new ArrayList<>();
    }

    public void añadirMatrimonio(Matrimonio matrimonio) {
        listaMatrimonios.add(matrimonio);
    }

    public void updateMatrimonio(Matrimonio matrimonio) {
        int posicion = listaMatrimonios.indexOf(matrimonio);
        listaMatrimonios.set(posicion, matrimonio);
    }

    @Override
    public String toString() {
        return super.toString() + "Juez:" + "listaMatrimonios=" + listaMatrimonios;
    }
```

```
}

Clase Matrimonio:
/*
 * 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 ups.edu.ec.modelo;

import java.io.Serializable;
import java.util.*;

/**
 *
 * @author User
 */
public class Matrimonio implements Serializable {

    private int numeroMatrimonio;
    private List<Conyuge> listaConyuges;
    private List<Testigo> listaTestigo;
    private Juez juez;
    private Date fechaMatrimonio;

    private static final long serialVersionUID = 6529685098267757694L;

    public Matrimonio(int numeroMatrimonio, List<Conyuge> listaConyuges, List<Testigo> listaTestigo,
            Juez juez, Date fechaMatrimonio) {
        this.numeroMatrimonio = numeroMatrimonio;
        this.listaConyuges = listaConyuges;
        this.listaTestigo = listaTestigo;
        this.juez = juez;
        this.fechaMatrimonio = fechaMatrimonio;
    }

    public Matrimonio(int numeroMatrimonio) {
        this.numeroMatrimonio = numeroMatrimonio;
    }



    public int getNumeroMatrimonio() {
        return numeroMatrimonio;
    }
```

```java
    public void setNumeroMatrimonio(int numeroMatrimonio) {
        this.numeroMatrimonio = numeroMatrimonio;
    }

    public List<Conyuge> getListaConyuges() {
        return listaConyuges;
    }

    public void setListaConyuges(List<Conyuge> listaConyuges) {
        this.listaConyuges = listaConyuges;
    }

    public List<Testigo> getListaTestigo() {
        return listaTestigo;
    }

    public void setListaTestigo(List<Testigo> listaTestigo) {
        this.listaTestigo = listaTestigo;
    }

    public Juez getJuez() {
        return juez;
    }

    public void setJuez(Juez juez) {
        this.juez = juez;
    }

    public Date getFechaMatrimonio() {
        return fechaMatrimonio;
    }

    public void setFechaMatrimonio(Date fechaMatrimonio) {
        this.fechaMatrimonio = fechaMatrimonio;
    }

    @Override
    public int hashCode() {
        int hash = 7;
        hash = 59 * hash + this.numeroMatrimonio;
        return hash;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
```

```java
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        final Matrimonio other = (Matrimonio) obj;
        if (this.numeroMatrimonio != other.numeroMatrimonio) {
            return false;
        }
        return true;
    }

    @Override
    public String toString() {
        return "Matrimonio:" + "numeroMatrimonio=" + numeroMatrimonio + ", listaConyuges="
            + listaConyuges + ", listaTestigo=" + listaTestigo + ", juez="
            + juez + ", fechaMatrimonio=" + fechaMatrimonio;
    }

}
```

Clase Controlador:

```java
/*
 * 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 ups.edu.ec.controlador;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.util.ArrayList;
import java.util.List;

/**
 *
 * @author User
 * @param <T>
 */
public abstract class Controlador<T> {
```

```java
private List<T> listaGenerica;
private String ruta;

public Controlador(String ruta) {
    listaGenerica = new ArrayList<>();
    this.ruta = ruta;
    this.cargarDatos();
}

public abstract int generarID();

public void cargarDatos() {
    try {
        FileInputStream archivo = new FileInputStream(ruta);
        ObjectInputStream objetoLectura = new ObjectInputStream(archivo);

        listaGenerica = (List<T>) objetoLectura.readObject();

    } catch (ClassNotFoundException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }
}

public boolean guardarDatos(List<T> listaGuardar) {
    try {
        FileOutputStream archivo = new FileOutputStream(ruta);
        ObjectOutputStream objetoEscritura = new ObjectOutputStream(archivo);

        objetoEscritura.writeObject(listaGuardar);
        return true;
    } catch (IOException e) {
        e.printStackTrace();
    }

    return false;
}

public boolean create(T objeto) {
    if (!listaGenerica.contains(objeto)) {
        listaGenerica.add(objeto);
        return guardarDatos(listaGenerica);
    } else {
        return true;
    }
}
```

```java
    public T read(T objeto) {

        if (listaGenerica.contains(objeto)) {
            return (T) listaGenerica.stream().filter(obj -> obj.equals(objeto)).findFirst().get();
        } else {
            return null;
        }

    }

    public boolean update(T objetoAntiguo, T objetoNuevo) {
        int index = listaGenerica.indexOf(objetoAntiguo);
        listaGenerica.set(index, objetoNuevo);
        return guardarDatos(listaGenerica);
    }

    public boolean delete(T objeto) {
        listaGenerica.remove(objeto);
        return guardarDatos(listaGenerica);
    }

    public List<T> getListaGenerica() {
        return listaGenerica;
    }

}
```

Clase ControladorPersona:

```java
/*
 * 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 ups.edu.ec.controlador;

/**
 *
 * @author User
 */
public class ControladorPersona extends Controlador {

    public ControladorPersona(String ruta) {
        super(ruta);
    }

    @Override
```

```java
    public int generarID() {
      if (super.getListaGenerica().isEmpty()) {
        return 1;
      } else {
        return (super.getListaGenerica().size() + 1);
      }
    }

}

Clase ControladorAdministrador:
/*
 * 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 ups.edu.ec.controlador;

import java.util.List;
import ups.edu.ec.modelo.Administrador;

/**
 *
 * @author User
 */
public class ControladorAdministrador extends Controlador{

  //private Administrador instance;

  public ControladorAdministrador(String ruta) {
    super(ruta);

  }

  @Override
  public int generarID() {
    if (super.getListaGenerica().isEmpty()) {
      return 1;
    } else {
      return (super.getListaGenerica().size() + 1);
    }
  }

  public Administrador logIn(String email, String password){
    List<Administrador> listaAdmins = (List<Administrador>) List.copyOf(super.getListaGenerica());

    System.out.println(listaAdmins);
```

```
        System.out.println(listaAdmins.size());

        Administrador administradorLogeado = listaAdmins.stream().filter(ad -> ad.getEmail().equals(email) &&
            ad.getPassword().equals(password)).findFirst().get();

        if(administradorLogeado != null){
            return Administrador.getInstance();
        } else {
            return null;
        }


    }


}

Clase ControladorMatrimonio:

/*
 * 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 ups.edu.ec.controlador;

/**
 *
 * @author User
 */
public class ControladorMatrimonio extends Controlador{

    public ControladorMatrimonio(String ruta) {
        super(ruta);
    }

    @Override
    public int generarID() {
        if (super.getListaGenerica().isEmpty()) {
            return 1;
        } else {
            return (super.getListaGenerica().size() + 1);
        }
    }


}
```

```java
VentanaPrincipal:
/*
 * 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 ups.edu.ec.vista;

import java.io.FileNotFoundException;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import ups.edu.ec.controlador.ControladorAdministrador;
import ups.edu.ec.controlador.ControladorMatrimonio;
import ups.edu.ec.controlador.ControladorPersona;
import ups.edu.ec.modelo.Administrador;

/**
 *
 * @author User
 */
public class VentanaPrincipal extends javax.swing.JFrame {

    private VentanaLogIn ventanaLogin;
    private VentanaCrearAdministrador ventanaCrearAdministrador;
    private VentanaCrearMatrimonio ventanaCrearMatrimonio;
    private VentanaTestigos ventanaTestigos;
    private VentanaJuez ventanaJuez;
    private VentanaGestionMatrimonio ventanaGestionMatrimonio;
    private VentanaGestionAdministrador ventanaGestionAdministrador;

    private ControladorAdministrador controladorAdministrador;
    private ControladorMatrimonio controladorMatrimonio;
    private ControladorPersona controladorPersona;

    /**
     * Creates new form VentanaPrincipal
     */
    public VentanaPrincipal() throws FileNotFoundException {
        initComponents();

        controladorAdministrador = new
ControladorAdministrador("C:\\Users\\User\\Desktop\\ProgramacionAplicada\\PruebaPractica1\\administradores.obj");
```

```
    controladorMatrimonio = new
ControladorMatrimonio("C:\\Users\\User\\Desktop\\ProgramacionAplicada\\PruebaPractica1\\matrimonios.obj");
    controladorPersona = new
ControladorPersona("C:\\Users\\User\\Desktop\\ProgramacionAplicada\\PruebaPractica1\\personas.obj");

    ventanaLogin = new VentanaLogIn(controladorAdministrador);
    ventanaCrearAdministrador = new VentanaCrearAdministrador(controladorAdministrador);

    ventanaJuez = new VentanaJuez(controladorPersona, controladorMatrimonio);
    ventanaTestigos = new VentanaTestigos(controladorPersona, ventanaJuez);

    ventanaCrearMatrimonio = new VentanaCrearMatrimonio(controladorMatrimonio, controladorPersona,
        ventanaTestigos, ventanaJuez);

    ventanaJuez.setVentanaCrearMatrimonio(ventanaCrearMatrimonio);
    ventanaJuez.setVentanaTestigos(ventanaTestigos);

    ventanaGestionMatrimonio = new VentanaGestionMatrimonio(controladorMatrimonio);
    ventanaGestionAdministrador = new VentanaGestionAdministrador(controladorAdministrador);

    desktopPane.add(ventanaLogin);
    desktopPane.add(ventanaCrearAdministrador);
    desktopPane.add(ventanaCrearMatrimonio);
    desktopPane.add(ventanaTestigos);
    desktopPane.add(ventanaJuez);
    desktopPane.add(ventanaGestionMatrimonio);
    desktopPane.add(ventanaGestionAdministrador);

}

public Administrador comprobarAdministrador() {
    Constructor<Administrador> constructor;
    try {
        constructor = Administrador.class.getDeclaredConstructor();
        constructor.setAccessible(true);
        Administrador admin = constructor.newInstance();

        return Administrador.instance;
    } catch (NoSuchMethodException ex) {
        Logger.getLogger(VentanaPrincipal.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SecurityException ex) {
        Logger.getLogger(VentanaPrincipal.class.getName()).log(Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        Logger.getLogger(VentanaPrincipal.class.getName()).log(Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        Logger.getLogger(VentanaPrincipal.class.getName()).log(Level.SEVERE, null, ex);
    } catch (IllegalArgumentException ex) {
```

```java
        Logger.getLogger(VentanaPrincipal.class.getName()).log(Level.SEVERE, null, ex);
    } catch (InvocationTargetException ex) {
        Logger.getLogger(VentanaPrincipal.class.getName()).log(Level.SEVERE, null, ex);
    }

    return 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() {

    desktopPane = new javax.swing.JDesktopPane();
    menuBar = new javax.swing.JMenuBar();
    inicioMenu = new javax.swing.JMenu();
    logInmenuItem = new javax.swing.JMenuItem();
    cerrarSesionMenuItem = new javax.swing.JMenuItem();
    exitMenuItem = new javax.swing.JMenuItem();
    crearMenu = new javax.swing.JMenu();
    crearAdministradorMenuItem = new javax.swing.JMenuItem();
    crearMatrimonioMenuItem = new javax.swing.JMenuItem();
    helpMenu = new javax.swing.JMenu();
    gestionMatrimonioMenuItem = new javax.swing.JMenuItem();
    gestionAdministradorMenuItem = new javax.swing.JMenuItem();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setTitle("Matrimonio");

    inicioMenu.setMnemonic('f');
    inicioMenu.setText("Inicio");

    logInmenuItem.setMnemonic('o');
    logInmenuItem.setText("Log in");
    logInmenuItem.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            logInmenuItemActionPerformed(evt);
        }
    });
    inicioMenu.add(logInmenuItem);

    cerrarSesionMenuItem.setText("Cerrar sesión");
```

```java
cerrarSesionMenuItem.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cerrarSesionMenuItemActionPerformed(evt);
    }
});
inicioMenu.add(cerrarSesionMenuItem);

exitMenuItem.setMnemonic('x');
exitMenuItem.setText("Exit");
exitMenuItem.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        exitMenuItemActionPerformed(evt);
    }
});
inicioMenu.add(exitMenuItem);

menuBar.add(inicioMenu);

crearMenu.setMnemonic('e');
crearMenu.setText("Crear");

crearAdministradorMenuItem.setMnemonic('t');
crearAdministradorMenuItem.setText("Administrador");
crearAdministradorMenuItem.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        crearAdministradorMenuItemActionPerformed(evt);
    }
});
crearMenu.add(crearAdministradorMenuItem);

crearMatrimonioMenuItem.setMnemonic('y');
crearMatrimonioMenuItem.setText("Matrimonio");
crearMatrimonioMenuItem.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        crearMatrimonioMenuItemActionPerformed(evt);
    }
});
crearMenu.add(crearMatrimonioMenuItem);

menuBar.add(crearMenu);

helpMenu.setMnemonic('h');
helpMenu.setText("Gestion");

gestionMatrimonioMenuItem.setMnemonic('c');
gestionMatrimonioMenuItem.setText("Matrimonio");
gestionMatrimonioMenuItem.addActionListener(new java.awt.event.ActionListener() {
```

```java
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            gestionMatrimonioMenuItemActionPerformed(evt);
        }
    });
    helpMenu.add(gestionMatrimonioMenuItem);

    gestionAdministradorMenuItem.setText("Administrador");
    gestionAdministradorMenuItem.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            gestionAdministradorMenuItemActionPerformed(evt);
        }
    });
    helpMenu.add(gestionAdministradorMenuItem);

    menuBar.add(helpMenu);

    setJMenuBar(menuBar);

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(desktopPane, javax.swing.GroupLayout.DEFAULT_SIZE, 572, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(desktopPane, javax.swing.GroupLayout.DEFAULT_SIZE, 349, Short.MAX_VALUE)
    );

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

private void exitMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
    System.exit(0);
}

private void logInmenuItemActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    cerrarVentanas();
    ventanaLogin.setVisible(true);
}

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

    cerrarVentanas();
    ventanaCrearAdministrador.setVisible(true);
```

```java
    }

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

        if (this.comprobarAdministrador() != null) {
            cerrarVentanas();
            ventanaCrearMatrimonio.setVisible(true);
        } else {
            JOptionPane.showMessageDialog(this, "Debe iniciar sesión", "Error", JOptionPane.ERROR_MESSAGE);
        }


    }

    private void cerrarSesionMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        Administrador.instance = null;

    }

    private void gestionMatrimonioMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        if (this.comprobarAdministrador() != null) {
            cerrarVentanas();
            ventanaGestionMatrimonio.setVisible(true);
        } else {
            JOptionPane.showMessageDialog(this, "Debe iniciar sesión", "Error", JOptionPane.ERROR_MESSAGE);
        }

    }

    private void gestionAdministradorMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        if (this.comprobarAdministrador() != null) {
            cerrarVentanas();
            ventanaGestionAdministrador.setVisible(true);
        } else {
            JOptionPane.showMessageDialog(this, "Debe iniciar sesión", "Error", JOptionPane.ERROR_MESSAGE);
        }

    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
```

```java
//<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(VentanaPrincipal.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (InstantiationException ex) {
    java.util.logging.Logger.getLogger(VentanaPrincipal.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (IllegalAccessException ex) {
    java.util.logging.Logger.getLogger(VentanaPrincipal.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
    java.util.logging.Logger.getLogger(VentanaPrincipal.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() {
        try {
            new VentanaPrincipal().setVisible(true);
        } catch (FileNotFoundException ex) {
            Logger.getLogger(VentanaPrincipal.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
});
}

public void cerrarVentanas() {
    ventanaLogin.hide();
    ventanaCrearAdministrador.hide();
    ventanaCrearMatrimonio.hide();
    ventanaGestionMatrimonio.hide();
    ventanaGestionAdministrador.hide();
}

// Variables declaration - do not modify
```

```java
    private javax.swing.JMenuItem cerrarSesionMenuItem;
    private javax.swing.JMenuItem crearAdministradorMenuItem;
    private javax.swing.JMenuItem crearMatrimonioMenuItem;
    private javax.swing.JMenu crearMenu;
    private javax.swing.JDesktopPane desktopPane;
    private javax.swing.JMenuItem exitMenuItem;
    private javax.swing.JMenuItem gestionAdministradorMenuItem;
    private javax.swing.JMenuItem gestionMatrimonioMenuItem;
    private javax.swing.JMenu helpMenu;
    private javax.swing.JMenu inicioMenu;
    private javax.swing.JMenuItem logInmenuItem;
    private javax.swing.JMenuBar menuBar;
    // End of variables declaration

}
```

VentanaRegistrarAdministrador:

```java
/*
 * 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 ups.edu.ec.vista;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.util.Date;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import ups.edu.ec.controlador.ControladorAdministrador;
import ups.edu.ec.modelo.Administrador;
import ups.edu.ec.modelo.Direccion;

/**
 *
 * @author User
 */
public class VentanaCrearAdministrador extends javax.swing.JInternalFrame {

    private ControladorAdministrador controladorAdministrador;

    /**
     * Creates new form VentanaCrearAdministrador
     */
    public VentanaCrearAdministrador(ControladorAdministrador controladorAdministrador) {
```

```java
    initComponents();

    this.controladorAdministrador = controladorAdministrador;
}

public void limpiar() {
    txtNombre.setText("");
    txtApellido1.setText("");
    txtFormattedCedula.setValue("");
    dateChooser.setDatoFecha(new Date());
    cbxGenero.setSelectedIndex(0);
    txtEmail.setText("");
    txtPassword.setText("");

    txtCalle1.setText("");
    txtCalle2.setText("");
    txtFormattedNumero.setValue("");
}

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

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    txtNombre = new javax.swing.JTextField();
    txtApellido1 = new javax.swing.JTextField();
    txtFormattedCedula = new javax.swing.JFormattedTextField();
    dateChooser = new rojeru_san.rsdate.RSDateChooser();
    cbxGenero = new javax.swing.JComboBox<>();
    jLabel9 = new javax.swing.JLabel();
    jLabel10 = new javax.swing.JLabel();
    txtEmail = new javax.swing.JTextField();
    txtPassword = new javax.swing.JPasswordField();
    jPanel2 = new javax.swing.JPanel();
    jLabel6 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
```

```
txtCalle1 = new javax.swing.JTextField();
txtCalle2 = new javax.swing.JTextField();
txtFormattedNumero = new javax.swing.JFormattedTextField();
btnCrear = new javax.swing.JButton();
btnCancelar = new javax.swing.JButton();

setClosable(true);
setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
setTitle("Crear Administrador");

jPanel1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

jLabel1.setText("Nombre(s):");

jLabel2.setText("Apellidos:");

jLabel3.setText("Cédula:");

jLabel4.setText("Fecha de nacimiento:");

jLabel5.setText("Género:");

try {
    txtFormattedCedula.setFormatterFactory(new javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("0########-#")));
} catch (java.text.ParseException ex) {
    ex.printStackTrace();
}

cbxGenero.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "--Seleccione--", "Masculino",
"Femenino" }));

jLabel9.setText("Email:");

jLabel10.setText("Password:");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(14, 14, 14)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel1)
            .addComponent(jLabel2)
            .addComponent(jLabel3)
            .addComponent(jLabel4)
```

```
                    .addComponent(jLabel5)
                    .addComponent(jLabel9)
                    .addComponent(jLabel10))
                .addGap(31, 31, 31)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(dateChooser, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(txtFormattedCedula)
                    .addComponent(txtApellido1)
                    .addComponent(txtNombre)
                    .addComponent(cbxGenero, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(txtEmail)
                    .addComponent(txtPassword))
                .addGap(65, 65, 65))
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(14, 14, 14)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel1)
                    .addComponent(txtNombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel2)
                    .addComponent(txtApellido1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel3)
                    .addComponent(txtFormattedCedula, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(dateChooser, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(13, 13, 13)
                        .addComponent(jLabel4)))
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(17, 17, 17)
                        .addComponent(jLabel5))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```
            .addComponent(cbxGenero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
          .addGap(18, 18, 18)
          .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel9)
            .addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
          .addGap(18, 18, 18)
          .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel10)
            .addComponent(txtPassword, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
          .addContainerGap(25, Short.MAX_VALUE))
    );


jPanel2.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(41, 43, 45)), "Dirección", javax.swing.border.TitledBorder.LEFT,
javax.swing.border.TitledBorder.TOP));

    jLabel6.setText("Calle # 1:");

    jLabel7.setText("Calle # 2:");

    jLabel8.setText("Número: ");

    javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(
      jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel2Layout.createSequentialGroup()
        .addContainerGap()
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addComponent(jLabel6)
          .addComponent(jLabel7)
          .addComponent(jLabel8))
        .addGap(100, 100, 100)
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
          .addComponent(txtCalle1, javax.swing.GroupLayout.DEFAULT_SIZE, 241, Short.MAX_VALUE)
          .addComponent(txtCalle2)
          .addComponent(txtFormattedNumero))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    jPanel2Layout.setVerticalGroup(
      jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(11, 11, 11)
```

```
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel6)
                    .addComponent(txtCalle1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel7)
                    .addComponent(txtCalle2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel8)
                    .addComponent(txtFormattedNumero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap(31, Short.MAX_VALUE))
        );

        btnCrear.setBackground(new java.awt.Color(51, 51, 255));
        btnCrear.setForeground(new java.awt.Color(0, 0, 0));
        btnCrear.setText("Crear");
        btnCrear.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                btnCrearActionPerformed(evt);
            }
        });

        btnCancelar.setBackground(new java.awt.Color(255, 51, 51));
        btnCancelar.setForeground(new java.awt.Color(0, 0, 0));
        btnCancelar.setText("Cancelar");

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
                .addContainerGap(31, Short.MAX_VALUE)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                    .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addGap(30, 30, 30))
            .addGroup(layout.createSequentialGroup()
                .addGap(176, 176, 176)
                .addComponent(btnCrear, javax.swing.GroupLayout.PREFERRED_SIZE, 69,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(59, 59, 59)
```

```java
            .addComponent(btnCancelar, javax.swing.GroupLayout.PREFERRED_SIZE, 81,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, Short.MAX_VALUE)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addComponent(btnCrear, javax.swing.GroupLayout.DEFAULT_SIZE, 34, Short.MAX_VALUE)
                    .addComponent(btnCancelar, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addGap(26, 26, 26))
        );

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

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

        String nombre = txtNombre.getText();
        String apellido = txtApellido1.getText();
        String cedula = txtFormattedCedula.getText();
        Date fechaNacimiento = dateChooser.getDatoFecha();
        String genero = (String) cbxGenero.getSelectedItem();
        String email = txtEmail.getText();
        String password = txtPassword.getText();

        String calle1 = txtCalle1.getText();
        String calle2 = txtCalle2.getText();
        String numeroCalle = txtFormattedNumero.getText();

        if (nombre.isBlank() || apellido.isBlank() || cedula.isBlank() || fechaNacimiento == null || genero.equals("--
Seleccione--")
                || email.isBlank() || password.isBlank() || calle1.isBlank() || calle2.isBlank() || numeroCalle.isBlank()) {
            JOptionPane.showMessageDialog(this, "Llene todos los campos", "Error",
JOptionPane.ERROR_MESSAGE);
        } else {
            Direccion direccion = new Direccion(calle1, calle2, numeroCalle);

            /*Administrador admin = new Administrador(controladorAdministrador.generarID(),
```

```
                nombre, apellido, cedula, genero, direccion, fechaNacimiento, email, password);
         */
        try {
            Constructor<Administrador> constructor = Administrador.class.getDeclaredConstructor();
            constructor.setAccessible(true);
            Administrador admin = constructor.newInstance();

            admin.setId(controladorAdministrador.generarID());
            admin.setNombre(nombre);
            admin.setApellido(apellido);
            admin.setCedula(cedula);
            admin.setGenero(genero);
            admin.setFechaNacimiento(fechaNacimiento);
            admin.setDireccion(direccion);
            admin.setEmail(email);
            admin.setPassword(password);

            if (controladorAdministrador.create(admin)) {
                JOptionPane.showMessageDialog(this, "Administrador creado con exito", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
            } else {
                JOptionPane.showMessageDialog(this, "Administrador ya existente", "Error",
JOptionPane.ERROR_MESSAGE);
            }


        } catch (IllegalAccessException e) {
            e.printStackTrace();
        } catch (InstantiationException ex) {
            Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
        } catch (IllegalArgumentException ex) {
            Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
        } catch (InvocationTargetException ex) {
            Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
        } catch (NoSuchMethodException ex) {
            Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SecurityException ex) {
            Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
        }

        limpiar();
    }

}


    // Variables declaration - do not modify
```

```java
    private javax.swing.JButton btnCancelar;
    private javax.swing.JButton btnCrear;
    private javax.swing.JComboBox<String> cbxGenero;
    private rojeru_san.rsdate.RSDateChooser dateChooser;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JTextField txtApellido1;
    private javax.swing.JTextField txtCalle1;
    private javax.swing.JTextField txtCalle2;
    private javax.swing.JTextField txtEmail;
    private javax.swing.JFormattedTextField txtFormattedCedula;
    private javax.swing.JFormattedTextField txtFormattedNumero;
    private javax.swing.JTextField txtNombre;
    private javax.swing.JPasswordField txtPassword;
    // End of variables declaration
}
```

VentanaLogIn:

```java
/*
 * 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 ups.edu.ec.vista;

import javax.swing.JOptionPane;
import ups.edu.ec.controlador.ControladorAdministrador;
import ups.edu.ec.modelo.Administrador;

/**
 *
 * @author User
 */
public class VentanaLogIn extends javax.swing.JInternalFrame {

    private ControladorAdministrador controladorAdministrador;
```

```java
/**
 * Creates new form VentanaLogIn
 */
public VentanaLogIn(ControladorAdministrador controladorAdministrador) {
    initComponents();

    this.controladorAdministrador = controladorAdministrador;

}

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

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    txtEmail = new javax.swing.JTextField();
    txtPassword = new javax.swing.JPasswordField();
    btnLogIn = new javax.swing.JButton();
    jButton1 = new javax.swing.JButton();

    setClosable(true);
    setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
    setTitle("Log In");

    jLabel1.setText("Email:");

    jLabel2.setText("Password:");

    btnLogIn.setBackground(new java.awt.Color(51, 51, 255));
    btnLogIn.setText("Log In");
    btnLogIn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnLogInActionPerformed(evt);
        }
    });

    jButton1.setBackground(new java.awt.Color(255, 51, 51));
    jButton1.setText("Cancelar");
```

```java
javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(41, 41, 41)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel1)
                    .addComponent(jLabel2))
                .addGap(85, 85, 85)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addComponent(txtEmail)
                    .addComponent(txtPassword, javax.swing.GroupLayout.DEFAULT_SIZE, 203,
Short.MAX_VALUE)))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(95, 95, 95)
                .addComponent(btnLogIn, javax.swing.GroupLayout.PREFERRED_SIZE, 67,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(48, 48, 48)
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 88,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(23, Short.MAX_VALUE))
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(31, 31, 31)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel1)
            .addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(jLabel2)
            .addComponent(txtPassword, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(30, 30, 30)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(btnLogIn, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 32,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(25, Short.MAX_VALUE))
);
```

```java
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
            .addContainerGap(53, Short.MAX_VALUE)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(40, 40, 40))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(21, 21, 21)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

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

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

    if (Administrador.instance == null) {
      Administrador admin = controladorAdministrador.logIn(txtEmail.getText(), txtPassword.getText());
      if (admin != null) {
        JOptionPane.showMessageDialog(this, "Sesión iniciada con exito", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
        txtEmail.setText("");
        txtPassword.setText("");
        this.hide();
      } else {
        JOptionPane.showMessageDialog(this, "Usuario erroneo", "Error", JOptionPane.ERROR_MESSAGE);
      }

    } else {
      JOptionPane.showMessageDialog(this, "Existe otro usuario conectado", "Error",
JOptionPane.ERROR_MESSAGE);
    }

    /*      if(admin.getEmail().equals(txtEmail.getText())){

    } else {

    }*/
```

```java
    }


    // Variables declaration - do not modify
    private javax.swing.JButton btnLogIn;
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JTextField txtEmail;
    private javax.swing.JPasswordField txtPassword;
    // End of variables declaration
}
```

VentanaCrearMatrimonio:

```java
/*
 * 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 ups.edu.ec.vista;

import java.util.ArrayList;
import java.util.Date;
import java.util.List;
import javax.swing.JOptionPane;
import ups.edu.ec.controlador.ControladorAdministrador;
import ups.edu.ec.controlador.ControladorMatrimonio;
import ups.edu.ec.controlador.ControladorPersona;
import ups.edu.ec.modelo.Administrador;
import ups.edu.ec.modelo.Conyuge;
import ups.edu.ec.modelo.Direccion;
import ups.edu.ec.modelo.Juez;
import ups.edu.ec.modelo.Matrimonio;
import ups.edu.ec.modelo.Testigo;

/**
 *
 * @author User
 */
public class VentanaCrearMatrimonio extends javax.swing.JInternalFrame {

    private Conyuge conyuge1;
    private Conyuge conyuge2;
```

```java
    private Testigo testigo1;
    private Testigo testigo2;

    private Juez juez;

    private ControladorMatrimonio controladorMatrimonio;
    private ControladorPersona controladorPersona;

    private VentanaTestigos ventanaTestigos;
    private VentanaJuez ventanaJuez;

    /**
     * Creates new form VentanaCrearMatrimonio
     */
    public VentanaCrearMatrimonio(ControladorMatrimonio controladorMatrimonio, ControladorPersona
controladorPersona,
        VentanaTestigos ventanaTestigos, VentanaJuez ventanaJuez) {
      initComponents();

      this.ventanaJuez = ventanaJuez;
      this.ventanaTestigos = ventanaTestigos;
      this.controladorPersona = controladorPersona;
      this.controladorMatrimonio = controladorMatrimonio;
    }

    public void limpiar() {
      txtNombre.setText("");
      txtApellido1.setText("");
      txtFormattedCedula.setValue("");
      dateChooser.setDatoFecha(new Date());
      cbxGenero.setSelectedIndex(0);
      txtEmail.setText("");

      txtCalle1.setText("");
      txtCalle2.setText("");
      txtFormattedNumero.setValue("");

      txtNombre1.setText("");
      txtApellido2.setText("");
      txtFormattedCedula1.setValue("");
      dateChooser1.setDatoFecha(new Date());
      cbxGenero1.setSelectedIndex(0);
      txtEmail1.setText("");

      txtCalle3.setText("");
      txtCalle4.setText("");
```

```java
    txtFormattedNumero1.setValue("");
}




    public Conyuge getConyuge1() {
        return conyuge1;
    }

    public Conyuge getConyuge2() {
        return conyuge2;
    }


    public void setTestigo1(Testigo testigo1) {
        this.testigo1 = testigo1;
    }

    public void setTestigo2(Testigo testigo2) {
        this.testigo2 = testigo2;
    }

    public void setJuez(Juez juez) {
        this.juez = juez;
    }

    public VentanaJuez getVentanaJuez() {
        return ventanaJuez;
    }



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

        jPanel1 = new javax.swing.JPanel();
        jPanel4 = new javax.swing.JPanel();
        jPanel5 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
```

```
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
txtNombre = new javax.swing.JTextField();
txtApellido1 = new javax.swing.JTextField();
txtFormattedCedula = new javax.swing.JFormattedTextField();
dateChooser = new rojeru_san.rsdate.RSDateChooser();
cbxGenero = new javax.swing.JComboBox<>();
jLabel9 = new javax.swing.JLabel();
txtEmail = new javax.swing.JTextField();
jPanel2 = new javax.swing.JPanel();
jLabel15 = new javax.swing.JLabel();
jLabel16 = new javax.swing.JLabel();
jLabel17 = new javax.swing.JLabel();
txtCalle1 = new javax.swing.JTextField();
txtCalle2 = new javax.swing.JTextField();
txtFormattedNumero = new javax.swing.JFormattedTextField();
jPanel3 = new javax.swing.JPanel();
jPanel6 = new javax.swing.JPanel();
jLabel6 = new javax.swing.JLabel();
jLabel7 = new javax.swing.JLabel();
jLabel8 = new javax.swing.JLabel();
jLabel11 = new javax.swing.JLabel();
jLabel12 = new javax.swing.JLabel();
txtNombre1 = new javax.swing.JTextField();
txtApellido2 = new javax.swing.JTextField();
txtFormattedCedula1 = new javax.swing.JFormattedTextField();
dateChooser1 = new rojeru_san.rsdate.RSDateChooser();
cbxGenero1 = new javax.swing.JComboBox<>();
jLabel13 = new javax.swing.JLabel();
txtEmail1 = new javax.swing.JTextField();
jPanel7 = new javax.swing.JPanel();
jLabel18 = new javax.swing.JLabel();
jLabel19 = new javax.swing.JLabel();
jLabel20 = new javax.swing.JLabel();
txtCalle3 = new javax.swing.JTextField();
txtCalle4 = new javax.swing.JTextField();
txtFormattedNumero1 = new javax.swing.JFormattedTextField();
btnSiguiente = new javax.swing.JButton();

setClosable(true);
setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
setTitle("Crear Matrimonio - Cónyuges");
```

```
jPanel4.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0)), "Cónyuge 1", javax.swing.border.TitledBorder.LEFT, javax.swing.border.TitledBorder.TOP));

    jPanel5.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

    jLabel1.setText("Nombre(s):");

    jLabel2.setText("Apellidos:");

    jLabel3.setText("Cédula:");

    jLabel4.setText("Fecha de nacimiento:");

    jLabel5.setText("Género:");

    try {
        txtFormattedCedula.setFormatterFactory(new javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("0########-#")));
    } catch (java.text.ParseException ex) {
        ex.printStackTrace();
    }

    cbxGenero.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "--Seleccione--", "Masculino",
"Femenino" }));

    jLabel9.setText("Email:");

    javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
    jPanel5.setLayout(jPanel5Layout);
    jPanel5Layout.setHorizontalGroup(
        jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel5Layout.createSequentialGroup()
            .addGap(14, 14, 14)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1)
                .addComponent(jLabel2)
                .addComponent(jLabel3)
                .addComponent(jLabel4)
                .addComponent(jLabel5)
                .addComponent(jLabel9))
            .addGap(31, 31, 31)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(dateChooser, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(txtFormattedCedula)
                .addComponent(txtApellido1)
```

```
                    .addComponent(txtNombre)
                    .addComponent(cbxGenero, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(txtEmail))
                .addGap(65, 65, 65))
        );
        jPanel5Layout.setVerticalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addGap(14, 14, 14)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel1)
                    .addComponent(txtNombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel2)
                    .addComponent(txtApellido1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel3)
                    .addComponent(txtFormattedCedula, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(dateChooser, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(jPanel5Layout.createSequentialGroup()
                        .addGap(13, 13, 13)
                        .addComponent(jLabel4)))
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel5Layout.createSequentialGroup()
                        .addGap(17, 17, 17)
                        .addComponent(jLabel5))
                    .addGroup(jPanel5Layout.createSequentialGroup()
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(cbxGenero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(18, 18, 18)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel9)
                    .addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap(23, Short.MAX_VALUE))
        );
```

```
jPanel2.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(41, 43, 45)), "Dirección", javax.swing.border.TitledBorder.LEFT,
javax.swing.border.TitledBorder.TOP));

    jLabel15.setText("Calle # 1:");

    jLabel16.setText("Calle # 2:");

    jLabel17.setText("Número: ");

    javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel15)
                .addComponent(jLabel16)
                .addComponent(jLabel17))
            .addGap(100, 100, 100)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(txtCalle1, javax.swing.GroupLayout.DEFAULT_SIZE, 241, Short.MAX_VALUE)
                .addComponent(txtCalle2)
                .addComponent(txtFormattedNumero))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    jPanel2Layout.setVerticalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(11, 11, 11)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel15)
                .addComponent(txtCalle1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel16)
                .addComponent(txtCalle2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel17)
                .addComponent(txtFormattedNumero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addContainerGap(31, Short.MAX_VALUE))
```

```
        );

        javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);
        jPanel4.setLayout(jPanel4Layout);
        jPanel4Layout.setHorizontalGroup(
            jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel4Layout.createSequentialGroup()
                .addContainerGap()
                .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jPanel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addContainerGap())
        );
        jPanel4Layout.setVerticalGroup(
            jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel4Layout.createSequentialGroup()
                .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, Short.MAX_VALUE))
        );


jPanel3.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0)), "Cónyuge 2", javax.swing.border.TitledBorder.LEFT, javax.swing.border.TitledBorder.TOP));

        jPanel6.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

        jLabel6.setText("Nombre(s):");

        jLabel7.setText("Apellidos:");

        jLabel8.setText("Cédula:");

        jLabel11.setText("Fecha de nacimiento:");

        jLabel12.setText("Género:");

        try {
            txtFormattedCedula1.setFormatterFactory(new javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("0########-#")));
        } catch (java.text.ParseException ex) {
            ex.printStackTrace();
```

```java
        }

        cbxGenero1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "--Seleccione--", "Masculino",
"Femenino" }));

        jLabel13.setText("Email:");

        javax.swing.GroupLayout jPanel6Layout = new javax.swing.GroupLayout(jPanel6);
        jPanel6.setLayout(jPanel6Layout);
        jPanel6Layout.setHorizontalGroup(
            jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel6Layout.createSequentialGroup()
                .addGap(14, 14, 14)
                .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel6)
                    .addComponent(jLabel7)
                    .addComponent(jLabel8)
                    .addComponent(jLabel11)
                    .addComponent(jLabel12)
                    .addComponent(jLabel13))
                .addGap(31, 31, 31)
                .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(dateChooser1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(txtFormattedCedula1)
                    .addComponent(txtApellido2)
                    .addComponent(txtNombre1)
                    .addComponent(cbxGenero1, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(txtEmail1))
                .addGap(65, 65, 65))
        );
        jPanel6Layout.setVerticalGroup(
            jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel6Layout.createSequentialGroup()
                .addGap(14, 14, 14)
                .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel6)
                    .addComponent(txtNombre1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel7)
                    .addComponent(txtApellido2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel8)
```

```
        .addComponent(txtFormattedCedula1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addComponent(dateChooser1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
          .addGroup(jPanel6Layout.createSequentialGroup()
            .addGap(13, 13, 13)
            .addComponent(jLabel11)))
        .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addGroup(jPanel6Layout.createSequentialGroup()
            .addGap(17, 17, 17)
            .addComponent(jLabel12))
          .addGroup(jPanel6Layout.createSequentialGroup()
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(cbxGenero1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(18, 18, 18)
        .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
          .addComponent(jLabel13)
          .addComponent(txtEmail1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(24, Short.MAX_VALUE))
    );


jPanel7.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(41, 43, 45)), "Dirección", javax.swing.border.TitledBorder.LEFT,
javax.swing.border.TitledBorder.TOP));

    jLabel18.setText("Calle # 1:");

    jLabel19.setText("Calle # 2:");

    jLabel20.setText("Número: ");

    javax.swing.GroupLayout jPanel7Layout = new javax.swing.GroupLayout(jPanel7);
    jPanel7.setLayout(jPanel7Layout);
    jPanel7Layout.setHorizontalGroup(
      jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel7Layout.createSequentialGroup()
        .addContainerGap()
        .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addComponent(jLabel18)
          .addComponent(jLabel19)
          .addComponent(jLabel20))
        .addGap(100, 100, 100)
```

```
            .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(txtCalle3, javax.swing.GroupLayout.DEFAULT_SIZE, 241, Short.MAX_VALUE)
                .addComponent(txtCalle4)
                .addComponent(txtFormattedNumero1))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        jPanel7Layout.setVerticalGroup(
            jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel7Layout.createSequentialGroup()
                .addGap(11, 11, 11)
                .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel18)
                    .addComponent(txtCalle3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel19)
                    .addComponent(txtCalle4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel20)
                    .addComponent(txtFormattedNumero1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap(31, Short.MAX_VALUE))
        );

        javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap()
                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jPanel6, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jPanel7, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addContainerGap())
        );
        jPanel3Layout.setVerticalGroup(
            jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jPanel7, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap())
    );

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(26, 26, 26)
        .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 35, Short.MAX_VALUE)
        .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(31, 31, 31))
    );
    jPanel1Layout.setVerticalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap()
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
          .addComponent(jPanel4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
          .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

    btnSiguiente.setBackground(new java.awt.Color(51, 255, 51));
    btnSiguiente.setText("Siguiente");
    btnSiguiente.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnSiguienteActionPerformed(evt);
      }
    });

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        .addGap(17, 17, 17)
```

```
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(21, Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(btnSiguiente, javax.swing.GroupLayout.PREFERRED_SIZE, 131,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(58, 58, 58))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(btnSiguiente, javax.swing.GroupLayout.PREFERRED_SIZE, 46,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(32, Short.MAX_VALUE))
    );

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

  private void btnSiguienteActionPerformed(java.awt.event.ActionEvent evt) {
    String nombre = txtNombre.getText();
    String apellido = txtApellido1.getText();
    String cedula = txtFormattedCedula.getText();
    Date fechaNacimiento = dateChooser.getDatoFecha();
    String genero = (String) cbxGenero.getSelectedItem();
    String email = txtEmail.getText();


    String calle1 = txtCalle1.getText();
    String calle2 = txtCalle2.getText();
    String numeroCalle = txtFormattedNumero.getText();

    if (nombre.isBlank() || apellido.isBlank() || cedula.isBlank() || fechaNacimiento == null || genero.equals("--
Seleccione--")
          || email.isBlank() || calle1.isBlank() || calle2.isBlank() || numeroCalle.isBlank()) {
       JOptionPane.showMessageDialog(this, "Llene todos los campos", "Error",
JOptionPane.ERROR_MESSAGE);
    } else {
       Direccion direccion = new Direccion(calle1, calle2, numeroCalle);

       conyuge1 = new Conyuge(controladorPersona.generarID(), nombre, apellido,
            cedula, genero, direccion, fechaNacimiento);
```

```
        /*
        if (controladorPersona.create(admin)) {
            JOptionPane.showMessageDialog(this, "Administrador creado con exito", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
        } else {
            JOptionPane.showMessageDialog(this, "Administrador ya existente", "Error",
JOptionPane.ERROR_MESSAGE);
        }*/
    }

    String nombre2 = txtNombre1.getText();
    String apellido2 = txtApellido2.getText();
    String cedula2 = txtFormattedCedula1.getText();
    Date fechaNacimiento2 = dateChooser1.getDatoFecha();
    String genero2 = (String) cbxGenero1.getSelectedItem();
    String email2 = txtEmail1.getText();


    String calle12 = txtCalle3.getText();
    String calle22 = txtCalle4.getText();
    String numeroCalle2 = txtFormattedNumero1.getText();

    if (nombre2.isBlank() || apellido2.isBlank() || cedula2.isBlank() || fechaNacimiento2 == null
        || genero2.equals("--Seleccione--") || email2.isBlank() || calle12.isBlank() ||
        calle22.isBlank() || numeroCalle2.isBlank()) {

        JOptionPane.showMessageDialog(this, "Llene todos los campos", "Error",
JOptionPane.ERROR_MESSAGE);
    } else {
        Direccion direccion2 = new Direccion(calle12, calle22, numeroCalle2);

        conyuge2 = new Conyuge((controladorPersona.generarID() + 1), nombre2, apellido2,
            cedula2, genero2, direccion2, fechaNacimiento2);

        this.hide();
        ventanaTestigos.setVisible(true);
        /*
        if (controladorPersona.create(admin)) {
            JOptionPane.showMessageDialog(this, "Administrador creado con exito", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
        } else {
            JOptionPane.showMessageDialog(this, "Administrador ya existente", "Error",
JOptionPane.ERROR_MESSAGE);
        }*/
    }
```

```
    }


    // Variables declaration - do not modify
    private javax.swing.JButton btnSiguiente;
    private javax.swing.JComboBox<String> cbxGenero;
    private javax.swing.JComboBox<String> cbxGenero1;
    private rojeru_san.rsdate.RSDateChooser dateChooser;
    private rojeru_san.rsdate.RSDateChooser dateChooser1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel12;
    private javax.swing.JLabel jLabel13;
    private javax.swing.JLabel jLabel15;
    private javax.swing.JLabel jLabel16;
    private javax.swing.JLabel jLabel17;
    private javax.swing.JLabel jLabel18;
    private javax.swing.JLabel jLabel19;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel20;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel4;
    private javax.swing.JPanel jPanel5;
    private javax.swing.JPanel jPanel6;
    private javax.swing.JPanel jPanel7;
    private javax.swing.JTextField txtApellido1;
    private javax.swing.JTextField txtApellido2;
    private javax.swing.JTextField txtCalle1;
    private javax.swing.JTextField txtCalle2;
    private javax.swing.JTextField txtCalle3;
    private javax.swing.JTextField txtCalle4;
    private javax.swing.JTextField txtEmail;
    private javax.swing.JTextField txtEmail1;
    private javax.swing.JFormattedTextField txtFormattedCedula;
    private javax.swing.JFormattedTextField txtFormattedCedula1;
    private javax.swing.JFormattedTextField txtFormattedNumero;
    private javax.swing.JFormattedTextField txtFormattedNumero1;
    private javax.swing.JTextField txtNombre;
```

```java
    private javax.swing.JTextField txtNombre1;
    // End of variables declaration
}



VentanaTestigo:

/*
 * 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 ups.edu.ec.vista;

import java.util.Date;
import javax.swing.JOptionPane;
import ups.edu.ec.controlador.ControladorPersona;
import ups.edu.ec.modelo.Conyuge;
import ups.edu.ec.modelo.Direccion;
import ups.edu.ec.modelo.Testigo;

/**
 *
 * @author User
 */
public class VentanaTestigos extends javax.swing.JInternalFrame {

    private Testigo testigo1;
    private Testigo testigo2;

    private ControladorPersona controladorPersona;

    private VentanaJuez ventanaJuez;

    /**
     * Creates new form VentanaTestigos
     */
    public VentanaTestigos(ControladorPersona controladorPersona, VentanaJuez ventanaJuez) {
        initComponents();

        this.ventanaJuez = ventanaJuez;
        this.controladorPersona = controladorPersona;
    }

    public Testigo getTestigo1() {
        return testigo1;
    }
```

```java
public Testigo getTestigo2() {
    return testigo2;
}


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

    jPanel1 = new javax.swing.JPanel();
    jPanel4 = new javax.swing.JPanel();
    jPanel5 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    txtNombre = new javax.swing.JTextField();
    txtApellido1 = new javax.swing.JTextField();
    txtFormattedCedula = new javax.swing.JFormattedTextField();
    dateChooser = new rojeru_san.rsdate.RSDateChooser();
    cbxGenero = new javax.swing.JComboBox<>();
    jLabel9 = new javax.swing.JLabel();
    txtEmail = new javax.swing.JTextField();
    jPanel2 = new javax.swing.JPanel();
    jLabel15 = new javax.swing.JLabel();
    jLabel16 = new javax.swing.JLabel();
    jLabel17 = new javax.swing.JLabel();
    txtCalle1 = new javax.swing.JTextField();
    txtCalle2 = new javax.swing.JTextField();
    txtFormattedNumero = new javax.swing.JFormattedTextField();
    jPanel3 = new javax.swing.JPanel();
    jPanel6 = new javax.swing.JPanel();
    jLabel6 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
    jLabel11 = new javax.swing.JLabel();
    jLabel12 = new javax.swing.JLabel();
    txtNombre1 = new javax.swing.JTextField();
    txtApellido2 = new javax.swing.JTextField();
    txtFormattedCedula1 = new javax.swing.JFormattedTextField();
```

```java
dateChooser1 = new rojeru_san.rsdate.RSDateChooser();
cbxGenero1 = new javax.swing.JComboBox<>();
jLabel13 = new javax.swing.JLabel();
txtEmail1 = new javax.swing.JTextField();
jPanel7 = new javax.swing.JPanel();
jLabel18 = new javax.swing.JLabel();
jLabel19 = new javax.swing.JLabel();
jLabel20 = new javax.swing.JLabel();
txtCalle3 = new javax.swing.JTextField();
txtCalle4 = new javax.swing.JTextField();
txtFormattedNumero1 = new javax.swing.JFormattedTextField();
btnSiguiente = new javax.swing.JButton();

setClosable(true);
setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
setTitle("Crear Matrimonio - Testigos");


jPanel4.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0)), "Testigo 1", javax.swing.border.TitledBorder.LEFT, javax.swing.border.TitledBorder.TOP));

    jPanel5.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

    jLabel1.setText("Nombre(s):");

    jLabel2.setText("Apellidos:");

    jLabel3.setText("Cédula:");

    jLabel4.setText("Fecha de nacimiento:");

    jLabel5.setText("Género:");

    try {
        txtFormattedCedula.setFormatterFactory(new javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("0########-#")));
    } catch (java.text.ParseException ex) {
        ex.printStackTrace();
    }

    cbxGenero.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "--Seleccione--", "Masculino",
"Femenino" }));

    jLabel9.setText("Email:");

    javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
    jPanel5.setLayout(jPanel5Layout);
```

```
        jPanel5Layout.setHorizontalGroup(
          jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addGroup(jPanel5Layout.createSequentialGroup()
            .addGap(14, 14, 14)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addComponent(jLabel1)
              .addComponent(jLabel2)
              .addComponent(jLabel3)
              .addComponent(jLabel4)
              .addComponent(jLabel5)
              .addComponent(jLabel9))
            .addGap(31, 31, 31)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addComponent(dateChooser, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
              .addComponent(txtFormattedCedula)
              .addComponent(txtApellido1)
              .addComponent(txtNombre)
              .addComponent(cbxGenero, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
              .addComponent(txtEmail))
            .addGap(65, 65, 65))
        );
        jPanel5Layout.setVerticalGroup(
          jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addGroup(jPanel5Layout.createSequentialGroup()
            .addGap(14, 14, 14)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
              .addComponent(jLabel1)
              .addComponent(txtNombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
              .addComponent(jLabel2)
              .addComponent(txtApellido1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
              .addComponent(jLabel3)
              .addComponent(txtFormattedCedula, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addComponent(dateChooser, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
              .addGroup(jPanel5Layout.createSequentialGroup()
                .addGap(13, 13, 13)
                .addComponent(jLabel4)))
```

```
          .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
              .addGap(17, 17, 17)
              .addComponent(jLabel5))
            .addGroup(jPanel5Layout.createSequentialGroup()
              .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
              .addComponent(cbxGenero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
          .addGap(18, 18, 18)
          .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel9)
            .addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
          .addContainerGap(23, Short.MAX_VALUE))
    );


    jPanel2.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(41, 43, 45)), "Dirección", javax.swing.border.TitledBorder.LEFT,
javax.swing.border.TitledBorder.TOP));

      jLabel15.setText("Calle # 1:");

      jLabel16.setText("Calle # 2:");

      jLabel17.setText("Número: ");

      javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
      jPanel2.setLayout(jPanel2Layout);
      jPanel2Layout.setHorizontalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
          .addContainerGap()
          .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel15)
            .addComponent(jLabel16)
            .addComponent(jLabel17))
          .addGap(100, 100, 100)
          .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(txtCalle1, javax.swing.GroupLayout.DEFAULT_SIZE, 241, Short.MAX_VALUE)
            .addComponent(txtCalle2)
            .addComponent(txtFormattedNumero))
          .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
      );
      jPanel2Layout.setVerticalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
```

```
                    .addGap(11, 11, 11)
                    .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel15)
                        .addComponent(txtCalle1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(18, 18, 18)
                    .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel16)
                        .addComponent(txtCalle2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(18, 18, 18)
                    .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabel17)
                        .addComponent(txtFormattedNumero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addContainerGap(31, Short.MAX_VALUE))
        );

        javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);
        jPanel4.setLayout(jPanel4Layout);
        jPanel4Layout.setHorizontalGroup(
            jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel4Layout.createSequentialGroup()
                .addContainerGap()
                .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jPanel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addContainerGap())
        );
        jPanel4Layout.setVerticalGroup(
            jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel4Layout.createSequentialGroup()
                .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, Short.MAX_VALUE))
        );


jPanel3.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0)), "Testigo 2", javax.swing.border.TitledBorder.LEFT, javax.swing.border.TitledBorder.TOP));

        jPanel6.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));
```

```
    jLabel6.setText("Nombre(s):");

    jLabel7.setText("Apellidos:");

    jLabel8.setText("Cédula:");

    jLabel11.setText("Fecha de nacimiento:");

    jLabel12.setText("Género:");

    try {
        txtFormattedCedula1.setFormatterFactory(new javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("0########-#")));
    } catch (java.text.ParseException ex) {
        ex.printStackTrace();
    }

    cbxGenero1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "--Seleccione--", "Masculino",
"Femenino" }));

    jLabel13.setText("Email:");

    javax.swing.GroupLayout jPanel6Layout = new javax.swing.GroupLayout(jPanel6);
    jPanel6.setLayout(jPanel6Layout);
    jPanel6Layout.setHorizontalGroup(
        jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel6Layout.createSequentialGroup()
            .addGap(14, 14, 14)
            .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel6)
                .addComponent(jLabel7)
                .addComponent(jLabel8)
                .addComponent(jLabel11)
                .addComponent(jLabel12)
                .addComponent(jLabel13))
            .addGap(31, 31, 31)
            .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(dateChooser1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(txtFormattedCedula1)
                .addComponent(txtApellido2)
                .addComponent(txtNombre1)
                .addComponent(cbxGenero1, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(txtEmail1))
            .addGap(65, 65, 65))
    );
```

```java
    jPanel6Layout.setVerticalGroup(
       jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(jPanel6Layout.createSequentialGroup()
          .addGap(14, 14, 14)
          .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(jLabel6)
             .addComponent(txtNombre1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
          .addGap(18, 18, 18)
          .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(jLabel7)
             .addComponent(txtApellido2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
          .addGap(18, 18, 18)
          .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(jLabel8)
             .addComponent(txtFormattedCedula1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
          .addGap(18, 18, 18)
          .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
             .addComponent(dateChooser1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
             .addGroup(jPanel6Layout.createSequentialGroup()
                .addGap(13, 13, 13)
                .addComponent(jLabel11)))
          .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
             .addGroup(jPanel6Layout.createSequentialGroup()
                .addGap(17, 17, 17)
                .addComponent(jLabel12))
             .addGroup(jPanel6Layout.createSequentialGroup()
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(cbxGenero1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
          .addGap(18, 18, 18)
          .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(jLabel13)
             .addComponent(txtEmail1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
          .addContainerGap(21, Short.MAX_VALUE))
    );


jPanel7.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(41, 43, 45)), "Dirección", javax.swing.border.TitledBorder.LEFT,
javax.swing.border.TitledBorder.TOP));

    jLabel18.setText("Calle # 1:");
```

```java
jLabel19.setText("Calle # 2:");

jLabel20.setText("Número: ");

javax.swing.GroupLayout jPanel7Layout = new javax.swing.GroupLayout(jPanel7);
jPanel7.setLayout(jPanel7Layout);
jPanel7Layout.setHorizontalGroup(
    jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel7Layout.createSequentialGroup()
      .addContainerGap()
      .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel18)
        .addComponent(jLabel19)
        .addComponent(jLabel20))
      .addGap(100, 100, 100)
      .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(txtCalle3, javax.swing.GroupLayout.DEFAULT_SIZE, 241, Short.MAX_VALUE)
        .addComponent(txtCalle4)
        .addComponent(txtFormattedNumero1))
      .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);
jPanel7Layout.setVerticalGroup(
    jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel7Layout.createSequentialGroup()
      .addGap(11, 11, 11)
      .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel18)
        .addComponent(txtCalle3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
      .addGap(18, 18, 18)
      .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel19)
        .addComponent(txtCalle4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
      .addGap(18, 18, 18)
      .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel20)
        .addComponent(txtFormattedNumero1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
      .addContainerGap(31, Short.MAX_VALUE))
);

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
jPanel3.setLayout(jPanel3Layout);
jPanel3Layout.setHorizontalGroup(
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
                    .addGroup(jPanel3Layout.createSequentialGroup()
                        .addContainerGap()
                        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jPanel6, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jPanel7, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                        .addContainerGap())
            );
            jPanel3Layout.setVerticalGroup(
                jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel3Layout.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(jPanel6, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jPanel7, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addContainerGap())
            );

            javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
            jPanel1.setLayout(jPanel1Layout);
            jPanel1Layout.setHorizontalGroup(
                jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(26, 26, 26)
                    .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 35, Short.MAX_VALUE)
                    .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(31, 31, 31))
            );
            jPanel1Layout.setVerticalGroup(
                jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addContainerGap()
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                        .addComponent(jPanel4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            );
```

```java
      btnSiguiente.setBackground(new java.awt.Color(51, 255, 51));
      btnSiguiente.setText("Siguiente");
      btnSiguiente.addActionListener(new java.awt.event.ActionListener() {
         public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnSiguienteActionPerformed(evt);
         }
      });

      javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
      getContentPane().setLayout(layout);
      layout.setHorizontalGroup(
         layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
         .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
            .addContainerGap(909, Short.MAX_VALUE)
            .addComponent(btnSiguiente, javax.swing.GroupLayout.PREFERRED_SIZE, 118,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(61, 61, 61))
         .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
               .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
               .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
               .addContainerGap()))
      );
      layout.setVerticalGroup(
         layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
         .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
            .addContainerGap(527, Short.MAX_VALUE)
            .addComponent(btnSiguiente, javax.swing.GroupLayout.PREFERRED_SIZE, 48,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(32, 32, 32))
         .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
               .addContainerGap()
               .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
               .addContainerGap(100, Short.MAX_VALUE)))
      );

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

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

      String nombre = txtNombre.getText();
      String apellido = txtApellido1.getText();
```

```
        String cedula = txtFormattedCedula.getText();
        Date fechaNacimiento = dateChooser.getDatoFecha();
        String genero = (String) cbxGenero.getSelectedItem();
        String email = txtEmail.getText();



        String calle1 = txtCalle1.getText();
        String calle2 = txtCalle2.getText();
        String numeroCalle = txtFormattedNumero.getText();

        if (nombre.isBlank() || apellido.isBlank() || cedula.isBlank() || fechaNacimiento == null || genero.equals("--
Seleccione--")
                || email.isBlank() || calle1.isBlank() || calle2.isBlank() || numeroCalle.isBlank()) {
            JOptionPane.showMessageDialog(this, "Llene todos los campos", "Error",
JOptionPane.ERROR_MESSAGE);
        } else {
            Direccion direccion = new Direccion(calle1, calle2, numeroCalle);

            testigo1 = new Testigo(controladorPersona.generarID(), nombre, apellido,
                    cedula, genero, direccion, fechaNacimiento);


            /*
            if (controladorPersona.create(admin)) {
                JOptionPane.showMessageDialog(this, "Administrador creado con exito", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
            } else {
                JOptionPane.showMessageDialog(this, "Administrador ya existente", "Error",
JOptionPane.ERROR_MESSAGE);
            }*/
        }

        String nombre2 = txtNombre1.getText();
        String apellido2 = txtApellido2.getText();
        String cedula2 = txtFormattedCedula1.getText();
        Date fechaNacimiento2 = dateChooser1.getDatoFecha();
        String genero2 = (String) cbxGenero1.getSelectedItem();
        String email2 = txtEmail1.getText();



        String calle12 = txtCalle3.getText();
        String calle22 = txtCalle4.getText();
        String numeroCalle2 = txtFormattedNumero1.getText();

        if (nombre2.isBlank() || apellido2.isBlank() || cedula2.isBlank() || fechaNacimiento2 == null
                || genero2.equals("--Seleccione--") || email2.isBlank()
                || calle12.isBlank() || calle22.isBlank() || numeroCalle2.isBlank()) {
```

```
            JOptionPane.showMessageDialog(this, "Llene todos los campos", "Error",
JOptionPane.ERROR_MESSAGE);
        } else {
            Direccion direccion2 = new Direccion(calle12, calle22, numeroCalle2);

            testigo2 = new Testigo((controladorPersona.generarID() + 1), nombre2, apellido2,
                    cedula2, genero2, direccion2, fechaNacimiento2);

            limpiar();
            this.hide();
            ventanaJuez.setVisible(true);

            /*
            if (controladorPersona.create(admin)) {
                JOptionPane.showMessageDialog(this, "Administrador creado con exito", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
            } else {
                JOptionPane.showMessageDialog(this, "Administrador ya existente", "Error",
JOptionPane.ERROR_MESSAGE);
            }*/
        }

    }

    public void limpiar() {
        txtNombre.setText("");
        txtApellido1.setText("");
        txtFormattedCedula.setValue("");
        dateChooser.setDatoFecha(new Date());
        cbxGenero.setSelectedIndex(0);
        txtEmail.setText("");

        txtCalle1.setText("");
        txtCalle2.setText("");
        txtFormattedNumero.setValue("");

        txtNombre1.setText("");
        txtApellido2.setText("");
        txtFormattedCedula1.setValue("");
        dateChooser1.setDatoFecha(new Date());
        cbxGenero1.setSelectedIndex(0);
        txtEmail1.setText("");

        txtCalle3.setText("");
        txtCalle4.setText("");
        txtFormattedNumero1.setValue("");
```

```java
}

// Variables declaration - do not modify
private javax.swing.JButton btnSiguiente;
private javax.swing.JComboBox<String> cbxGenero;
private javax.swing.JComboBox<String> cbxGenero1;
private rojeru_san.rsdate.RSDateChooser dateChooser;
private rojeru_san.rsdate.RSDateChooser dateChooser1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel13;
private javax.swing.JLabel jLabel15;
private javax.swing.JLabel jLabel16;
private javax.swing.JLabel jLabel17;
private javax.swing.JLabel jLabel18;
private javax.swing.JLabel jLabel19;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel20;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
private javax.swing.JPanel jPanel4;
private javax.swing.JPanel jPanel5;
private javax.swing.JPanel jPanel6;
private javax.swing.JPanel jPanel7;
private javax.swing.JTextField txtApellido1;
private javax.swing.JTextField txtApellido2;
private javax.swing.JTextField txtCalle1;
private javax.swing.JTextField txtCalle2;
private javax.swing.JTextField txtCalle3;
private javax.swing.JTextField txtCalle4;
private javax.swing.JTextField txtEmail;
private javax.swing.JTextField txtEmail1;
private javax.swing.JFormattedTextField txtFormattedCedula;
private javax.swing.JFormattedTextField txtFormattedCedula1;
private javax.swing.JFormattedTextField txtFormattedNumero;
private javax.swing.JFormattedTextField txtFormattedNumero1;
private javax.swing.JTextField txtNombre;
private javax.swing.JTextField txtNombre1;
```

```
    // End of variables declaration
}


VentanaJuez:

/*
 * 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 ups.edu.ec.vista;

import java.util.ArrayList;
import java.util.Date;
import java.util.List;
import javax.swing.JOptionPane;
import ups.edu.ec.controlador.ControladorMatrimonio;
import ups.edu.ec.controlador.ControladorPersona;
import ups.edu.ec.modelo.Conyuge;
import ups.edu.ec.modelo.Direccion;
import ups.edu.ec.modelo.Juez;
import ups.edu.ec.modelo.Matrimonio;
import ups.edu.ec.modelo.Testigo;

/**
 *
 * @author User
 */
public class VentanaJuez extends javax.swing.JInternalFrame {

    private ControladorPersona controladorPersona;
    private ControladorMatrimonio controladorMatrimonio;

    private Juez juez;

    private Conyuge conyuge1;
    private Conyuge conyuge2;

    private Testigo testigo1;
    private Testigo testigo2;

    private VentanaCrearMatrimonio ventanaCrearMatrimonio;
    private VentanaTestigos ventanaTestigos;

    /**
     * Creates new form VentanaJuez
```

```java
 */
public VentanaJuez(ControladorPersona controladorPersona, ControladorMatrimonio controladorMatrimonio) {
   initComponents();

   this.controladorMatrimonio = controladorMatrimonio;
   this.controladorPersona = controladorPersona;

}

public void setVentanaCrearMatrimonio(VentanaCrearMatrimonio ventanaCrearMatrimonio) {
   this.ventanaCrearMatrimonio = ventanaCrearMatrimonio;
}

public void setVentanaTestigos(VentanaTestigos ventanaTestigos) {
   this.ventanaTestigos = ventanaTestigos;
}

public Juez getJuez() {
   return juez;
}

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

   jPanel1 = new javax.swing.JPanel();
   jLabel1 = new javax.swing.JLabel();
   jLabel2 = new javax.swing.JLabel();
   jLabel3 = new javax.swing.JLabel();
   jLabel4 = new javax.swing.JLabel();
   jLabel5 = new javax.swing.JLabel();
   txtNombre = new javax.swing.JTextField();
   txtApellido1 = new javax.swing.JTextField();
   txtFormattedCedula = new javax.swing.JFormattedTextField();
   dateChooser = new rojeru_san.rsdate.RSDateChooser();
   cbxGenero = new javax.swing.JComboBox<>();
   jLabel9 = new javax.swing.JLabel();
   txtEmail = new javax.swing.JTextField();
   jPanel2 = new javax.swing.JPanel();
   jLabel6 = new javax.swing.JLabel();
   jLabel7 = new javax.swing.JLabel();
   jLabel8 = new javax.swing.JLabel();
```

```java
txtCalle1 = new javax.swing.JTextField();
txtCalle2 = new javax.swing.JTextField();
txtFormattedNumero = new javax.swing.JFormattedTextField();
btnFinalizar = new javax.swing.JButton();

setClosable(true);
setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
setTitle("Crear Matrimonio - Juez");

jPanel1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

jLabel1.setText("Nombre(s):");

jLabel2.setText("Apellidos:");

jLabel3.setText("Cédula:");

jLabel4.setText("Fecha de nacimiento:");

jLabel5.setText("Género:");

try {
    txtFormattedCedula.setFormatterFactory(new javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("0########-#")));
} catch (java.text.ParseException ex) {
    ex.printStackTrace();
}

cbxGenero.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "--Seleccione--", "Masculino",
"Femenino" }));

jLabel9.setText("Email:");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(14, 14, 14)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel1)
            .addComponent(jLabel2)
            .addComponent(jLabel3)
            .addComponent(jLabel4)
            .addComponent(jLabel5)
            .addComponent(jLabel9))
        .addGap(31, 31, 31)
```

```
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(dateChooser, javax.swing.GroupLayout.DEFAULT_SIZE, 301, Short.MAX_VALUE)
                    .addComponent(txtFormattedCedula)
                    .addComponent(txtApellido1)
                    .addComponent(txtNombre)
                    .addComponent(cbxGenero, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(txtEmail))
                .addGap(41, 41, 41))
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(14, 14, 14)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel1)
                    .addComponent(txtNombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel2)
                    .addComponent(txtApellido1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel3)
                    .addComponent(txtFormattedCedula, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(dateChooser, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(13, 13, 13)
                        .addComponent(jLabel4)))
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(17, 17, 17)
                        .addComponent(jLabel5))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(cbxGenero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel9)
                    .addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
```

VICERRECTORADO DOCENTE	**Código:** GUIA-PRL-001
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Formato: Guía de Práctica de Laboratorio / Talleres / Centros de Simulación	

UNIVERSIDAD POLITÉCNICA SALESIANA ECUADOR

```
                  .addContainerGap(35, Short.MAX_VALUE))
      );


jPanel2.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(41, 43, 45)), "Dirección", javax.swing.border.TitledBorder.LEFT,
javax.swing.border.TitledBorder.TOP));

      jLabel6.setText("Calle # 1:");

      jLabel7.setText("Calle # 2:");

      jLabel8.setText("Número: ");

      javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
      jPanel2.setLayout(jPanel2Layout);
      jPanel2Layout.setHorizontalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
          .addContainerGap()
          .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel6)
            .addComponent(jLabel7)
            .addComponent(jLabel8))
          .addGap(100, 100, 100)
          .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(txtCalle1, javax.swing.GroupLayout.DEFAULT_SIZE, 241, Short.MAX_VALUE)
            .addComponent(txtCalle2)
            .addComponent(txtFormattedNumero))
          .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
      );
      jPanel2Layout.setVerticalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
          .addGap(11, 11, 11)
          .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel6)
            .addComponent(txtCalle1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
          .addGap(18, 18, 18)
          .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel7)
            .addComponent(txtCalle2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
          .addGap(18, 18, 18)
          .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel8)
```

```java
            .addComponent(txtFormattedNumero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
          .addContainerGap(31, Short.MAX_VALUE))
    );

    btnFinalizar.setBackground(new java.awt.Color(51, 51, 255));
    btnFinalizar.setForeground(new java.awt.Color(0, 0, 0));
    btnFinalizar.setText("Finalizar");
    btnFinalizar.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnFinalizarActionPerformed(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()
        .addContainerGap(36, Short.MAX_VALUE)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
              .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
              .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGap(37, 37, 37))
          .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
            .addComponent(btnFinalizar, javax.swing.GroupLayout.PREFERRED_SIZE, 82,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(48, 48, 48))))
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(btnFinalizar, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(15, Short.MAX_VALUE))
    );
```

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

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

        String nombre = txtNombre.getText();
        String apellido = txtApellido1.getText();
        String cedula = txtFormattedCedula.getText();
        Date fechaNacimiento = dateChooser.getDatoFecha();
        String genero = (String) cbxGenero.getSelectedItem();
        String email = txtEmail.getText();

        String calle1 = txtCalle1.getText();
        String calle2 = txtCalle2.getText();
        String numeroCalle = txtFormattedNumero.getText();

        if (nombre.isBlank() || apellido.isBlank() || cedula.isBlank() || fechaNacimiento == null || genero.equals("--
Seleccione--")
                || email.isBlank() || calle1.isBlank() || calle2.isBlank() || numeroCalle.isBlank()) {
            JOptionPane.showMessageDialog(this, "Llene todos los campos", "Error",
JOptionPane.ERROR_MESSAGE);
        } else {
            Direccion direccion = new Direccion(calle1, calle2, numeroCalle);

            juez = new Juez(controladorPersona.generarID(), nombre, apellido,
                cedula, genero, direccion, fechaNacimiento);

            limpiar();
            this.hide();
            JOptionPane.showMessageDialog(this, "Mtrimonio creado", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
            guardarDatos();

            /*
            if (controladorPersona.create(admin)) {
                JOptionPane.showMessageDialog(this, "Administrador creado con exito", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
            } else {
                JOptionPane.showMessageDialog(this, "Administrador ya existente", "Error",
JOptionPane.ERROR_MESSAGE);
            }*/
        }

    }
```

```java
public void limpiar() {
    txtNombre.setText("");
    txtApellido1.setText("");
    txtFormattedCedula.setValue("");
    dateChooser.setDatoFecha(new Date());
    cbxGenero.setSelectedIndex(0);
    txtEmail.setText("");

    txtCalle1.setText("");
    txtCalle2.setText("");
    txtFormattedNumero.setValue("");
}

public void guardarDatos() {

    conyuge1 = ventanaCrearMatrimonio.getConyuge1();
    conyuge2 = ventanaCrearMatrimonio.getConyuge2();

    List<Conyuge> listaConyuges = new ArrayList<>();

    testigo1 = ventanaTestigos.getTestigo1();
    testigo2 = ventanaTestigos.getTestigo2();

    List<Testigo> listaTestigo = new ArrayList<>();

    Matrimonio matrimonio = new Matrimonio(controladorMatrimonio.generarID(),
        listaConyuges, listaTestigo, this.juez, new Date());

    conyuge1.setMatrimonio(matrimonio);
    conyuge2.setMatrimonio(matrimonio);
    listaConyuges.add(conyuge1);
    listaConyuges.add(conyuge2);
    controladorPersona.create(this.conyuge1);
    controladorPersona.create(this.conyuge2);

    testigo1.añadirMatrimonio(matrimonio);
    testigo2.añadirMatrimonio(matrimonio);
    listaTestigo.add(testigo1);
    listaTestigo.add(testigo2);
    controladorPersona.create(this.testigo1);
    controladorPersona.create(this.testigo2);

    matrimonio.setListaTestigo(listaTestigo);
    matrimonio.setListaConyuges(listaConyuges);
    controladorMatrimonio.create(matrimonio);
```

```java
        System.out.println(matrimonio);
        //System.out.println(controladorMatrimonio.getListaGenerica());


    }

    // Variables declaration - do not modify
    private javax.swing.JButton btnFinalizar;
    private javax.swing.JComboBox<String> cbxGenero;
    private rojeru_san.rsdate.RSDateChooser dateChooser;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JTextField txtApellido1;
    private javax.swing.JTextField txtCalle1;
    private javax.swing.JTextField txtCalle2;
    private javax.swing.JTextField txtEmail;
    private javax.swing.JFormattedTextField txtFormattedCedula;
    private javax.swing.JFormattedTextField txtFormattedNumero;
    private javax.swing.JTextField txtNombre;
    // End of variables declaration
}
```

VenatanaGestionMatrimonio:

```java
/*
 * 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 ups.edu.ec.vista;

import java.util.List;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import ups.edu.ec.controlador.ControladorMatrimonio;
import ups.edu.ec.modelo.Conyuge;
import ups.edu.ec.modelo.Matrimonio;
import ups.edu.ec.modelo.Testigo;
```

```java
/**
 *
 * @author User
 */
public class VentanaGestionMatrimonio extends javax.swing.JInternalFrame {

    private ControladorMatrimonio controladorMatrimonio;

    /**
     * Creates new form VentanaGestionMatrimonio
     */
    public VentanaGestionMatrimonio(ControladorMatrimonio controladorMatrimonio) {
        initComponents();

        this.controladorMatrimonio = controladorMatrimonio;
        this.llenarTblMatrimonios();
    }

    public void llenarTblMatrimonios() {
        List<Matrimonio> listaMatrimonios = (List<Matrimonio>) controladorMatrimonio.getListaGenerica();

        DefaultTableModel modelo = (DefaultTableModel) tblMatrimonios.getModel();
        modelo.setRowCount(0);

        for (Matrimonio matri : listaMatrimonios) {
            List<Conyuge> listaConyuges = matri.getListaConyuges();
            String nombres = "";

            for (Conyuge con : listaConyuges) {
                nombres += con.getNombre() + " " + con.getApellido();
                nombres += ", ";
            }

            String testigos = "";
            for (Testigo tes : matri.getListaTestigo()) {
                testigos += tes.getNombre() + " " + tes.getApellido();
                testigos += ", ";
            }

            String juez = matri.getJuez().getNombre() + " " + matri.getJuez().getApellido();

            Object[] row = {matri.getNumeroMatrimonio(), matri.getFechaMatrimonio().toString(),
                nombres, testigos, juez};

            modelo.addRow(row);
        }
```

```java
      tblMatrimonios.setModel(modelo);
   }

   public void llenarMatrimonioBuscado(Matrimonio matri) {
      DefaultTableModel modelo = (DefaultTableModel) tblMatrimonios.getModel();
      modelo.setRowCount(0);

      List<Conyuge> listaConyuges = matri.getListaConyuges();
      String nombres = "";

      for (Conyuge con : listaConyuges) {
         nombres += con.getNombre() + " " + con.getApellido();
         nombres += "\n";
      }

      String testigos = "";
      for (Testigo tes : matri.getListaTestigo()) {
         testigos += tes.getNombre() + " " + tes.getApellido();
         testigos += "\n";
      }

      String juez = matri.getJuez().getNombre() + " " + matri.getJuez().getApellido();

      Object[] row = {matri.getNumeroMatrimonio(), matri.getFechaMatrimonio().toString(),
         nombres, testigos, juez};

      modelo.addRow(row);

      tblMatrimonios.setModel(modelo);

   }

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

      jPanel1 = new javax.swing.JPanel();
      jLabel1 = new javax.swing.JLabel();
      txtNumero = new javax.swing.JTextField();
      btnBuscar = new javax.swing.JButton();
      jButton1 = new javax.swing.JButton();
      jScrollPane1 = new javax.swing.JScrollPane();
```

```java
tblMatrimonios = new javax.swing.JTable();

addInternalFrameListener(new javax.swing.event.InternalFrameListener() {
    public void internalFrameActivated(javax.swing.event.InternalFrameEvent evt) {
        formInternalFrameActivated(evt);
    }
    public void internalFrameClosed(javax.swing.event.InternalFrameEvent evt) {
    }
    public void internalFrameClosing(javax.swing.event.InternalFrameEvent evt) {
    }
    public void internalFrameDeactivated(javax.swing.event.InternalFrameEvent evt) {
    }
    public void internalFrameDeiconified(javax.swing.event.InternalFrameEvent evt) {
    }
    public void internalFrameIconified(javax.swing.event.InternalFrameEvent evt) {
    }
    public void internalFrameOpened(javax.swing.event.InternalFrameEvent evt) {
    }
});

jLabel1.setText("Numero Matrimonio:");

btnBuscar.setBackground(new java.awt.Color(102, 102, 255));
btnBuscar.setText("Buscar");
btnBuscar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnBuscarActionPerformed(evt);
    }
});

jButton1.setBackground(new java.awt.Color(255, 51, 51));
jButton1.setText("Cancelar");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(22, 22, 22)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel1)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
```

```
                    .addGap(39, 39, 39)
                    .addComponent(btnBuscar, javax.swing.GroupLayout.PREFERRED_SIZE, 73,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(txtNumero, javax.swing.GroupLayout.PREFERRED_SIZE, 106,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(24, 24, 24))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(41, 41, 41)
                    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 119,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addContainerGap(53, Short.MAX_VALUE))))
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(14, 14, 14)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel1)
                .addComponent(txtNumero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 36, Short.MAX_VALUE)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(btnBuscar, javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(22, 22, 22))
    );

    tblMatrimonios.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {

        },
        new String [] {
            "ID", "Fecha", "Cónyuges", "Testigos", "Juez"
        }
    ) {
        Class[] types = new Class [] {
            java.lang.Integer.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, false
```

```java
        };

        public Class getColumnClass(int columnIndex) {
            return types [columnIndex];
        }

        public boolean isCellEditable(int rowIndex, int columnIndex) {
            return canEdit [columnIndex];
        }
    });
    jScrollPane1.setViewportView(tblMatrimonios);

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(76, 76, 76)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()
            .addGap(27, 27, 27)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 845, Short.MAX_VALUE)
            .addContainerGap())
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 358,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 57, Short.MAX_VALUE))
    );

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

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


    Matrimonio matri = (Matrimonio) controladorMatrimonio.read(new
Matrimonio(Integer.parseInt(txtNumero.getText())));
```

```java
        if(matri != null){
            llenarMatrimonioBuscado(matri);
        } else {
            JOptionPane.showMessageDialog(this, "Matrimonio no encontrado", "Error",
JOptionPane.ERROR_MESSAGE);
        }

    }

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

        llenarTblMatrimonios();
    }

    private void formInternalFrameActivated(javax.swing.event.InternalFrameEvent evt) {
        // TODO add your handling code here:
        llenarTblMatrimonios();
    }


    // Variables declaration - do not modify
    private javax.swing.JButton btnBuscar;
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable tblMatrimonios;
    private javax.swing.JTextField txtNumero;
    // End of variables declaration

}

VentanaGestionAdministrador:

/*
 * 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 ups.edu.ec.vista;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.util.Date;
import java.util.List;
```

```java
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import ups.edu.ec.controlador.ControladorAdministrador;
import ups.edu.ec.modelo.Administrador;
import ups.edu.ec.modelo.Direccion;

/**
 *
 * @author User
 */
public class VentanaGestionAdministrador extends javax.swing.JInternalFrame {

    private ControladorAdministrador controladorAdministrador;

    /**
     * Creates new form VentanaGestionAdministrador
     */
    public VentanaGestionAdministrador(ControladorAdministrador controladorAdministrador) {
        initComponents();

        this.controladorAdministrador = controladorAdministrador;
        inicioBotones();
        llenarTblAdministradores();
        btnCancelar.setEnabled(true);
    }

    public void inicioBotones() {

        btnActualizar.setEnabled(false);
        btnEliminar.setEnabled(false);

    }

    public void cambioBotones() {

        btnActualizar.setEnabled(true);
        btnEliminar.setEnabled(true);

    }

    public void llenarTblAdministradores() {
        DefaultTableModel modelo = (DefaultTableModel) tblAdministradores.getModel();
        modelo.setRowCount(0);

        for (Administrador admin : (List<Administrador>) controladorAdministrador.getListaGenerica()) {
```

```java
        String calles = admin.getDireccion().getCalle1() + "  " +
            admin.getDireccion().getCalle2() + "  " + admin.getDireccion().getNumeroCalle();

        Object[] row = {admin.getNombre(), admin.getApellido(), admin.getCedula(),
           admin.getFechaNacimiento().toString(), admin.getEmail(), admin.getPassword(),
           admin.getGenero(), calles};

        modelo.addRow(row);
    }

    tblAdministradores.setModel(modelo);

}

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

    jPanel1 = new javax.swing.JPanel();
    btnCancelar = new javax.swing.JButton();
    jPanel4 = new javax.swing.JPanel();
    jPanel5 = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    txtNombre = new javax.swing.JTextField();
    txtApellido1 = new javax.swing.JTextField();
    txtFormattedCedula = new javax.swing.JFormattedTextField();
    dateChooser = new rojeru_san.rsdate.RSDateChooser();
    cbxGenero = new javax.swing.JComboBox<>();
    jLabel9 = new javax.swing.JLabel();
    jLabel10 = new javax.swing.JLabel();
    txtEmail = new javax.swing.JTextField();
    txtPassword = new javax.swing.JPasswordField();
    jPanel2 = new javax.swing.JPanel();
    jLabel15 = new javax.swing.JLabel();
    jLabel16 = new javax.swing.JLabel();
    jLabel17 = new javax.swing.JLabel();
    txtCalle1 = new javax.swing.JTextField();
```

```java
        txtCalle2 = new javax.swing.JTextField();
        txtFormattedNumero = new javax.swing.JFormattedTextField();
        btnActualizar = new javax.swing.JButton();
        btnEliminar = new javax.swing.JButton();
        jScrollPane1 = new javax.swing.JScrollPane();
        tblAdministradores = new javax.swing.JTable();

        setClosable(true);
        setDefaultCloseOperation(javax.swing.WindowConstants.HIDE_ON_CLOSE);
        setTitle("Gestion Administradores");

        btnCancelar.setBackground(new java.awt.Color(255, 51, 51));
        btnCancelar.setText("Cancelar");
        btnCancelar.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                btnCancelarActionPerformed(evt);
            }
        });

jPanel4.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0)), "Cónyuge 1", javax.swing.border.TitledBorder.LEFT, javax.swing.border.TitledBorder.TOP));

        jPanel5.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

        jLabel2.setText("Nombre(s):");

        jLabel3.setText("Apellidos:");

        jLabel4.setText("Cédula:");

        jLabel5.setText("Fecha de nacimiento:");

        jLabel6.setText("Género:");

        txtFormattedCedula.setEditable(false);
        try {
            txtFormattedCedula.setFormatterFactory(new javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("0#########-#")));
        } catch (java.text.ParseException ex) {
            ex.printStackTrace();
        }

        cbxGenero.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "--Seleccione--", "Masculino",
"Femenino" }));

        jLabel9.setText("Email:");
```

```
        jLabel10.setText("Password:");

        javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
        jPanel5.setLayout(jPanel5Layout);
        jPanel5Layout.setHorizontalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addGap(14, 14, 14)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel2)
                    .addComponent(jLabel3)
                    .addComponent(jLabel4)
                    .addComponent(jLabel5)
                    .addComponent(jLabel6)
                    .addComponent(jLabel9)
                    .addComponent(jLabel10))
                .addGap(31, 31, 31)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(dateChooser, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(txtFormattedCedula)
                    .addComponent(txtApellido1)
                    .addComponent(txtNombre)
                    .addComponent(cbxGenero, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(txtEmail)
                    .addComponent(txtPassword))
                .addGap(65, 65, 65))
        );
        jPanel5Layout.setVerticalGroup(
            jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel5Layout.createSequentialGroup()
                .addGap(14, 14, 14)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel2)
                    .addComponent(txtNombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel3)
                    .addComponent(txtApellido1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel4)
                    .addComponent(txtFormattedCedula, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
            .addGap(18, 18, 18)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addComponent(dateChooser, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
              .addGroup(jPanel5Layout.createSequentialGroup()
                .addGap(13, 13, 13)
                .addComponent(jLabel5)))
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addGroup(jPanel5Layout.createSequentialGroup()
                .addGap(17, 17, 17)
                .addComponent(jLabel6))
              .addGroup(jPanel5Layout.createSequentialGroup()
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(cbxGenero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(18, 18, 18)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
              .addComponent(jLabel9)
              .addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
              .addComponent(jLabel10)
              .addComponent(txtPassword, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addContainerGap(25, Short.MAX_VALUE))
    );


jPanel2.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(41, 43, 45)), "Dirección", javax.swing.border.TitledBorder.LEFT,
javax.swing.border.TitledBorder.TOP));

    jLabel15.setText("Calle # 1:");

    jLabel16.setText("Calle # 2:");

    jLabel17.setText("Número: ");

    javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(
      jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel2Layout.createSequentialGroup()
        .addContainerGap()
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addComponent(jLabel15)
```

```
                  .addComponent(jLabel16)
                  .addComponent(jLabel17))
            .addGap(100, 100, 100)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(txtCalle1, javax.swing.GroupLayout.DEFAULT_SIZE, 241, Short.MAX_VALUE)
                .addComponent(txtCalle2)
                .addComponent(txtFormattedNumero))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    jPanel2Layout.setVerticalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(11, 11, 11)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel15)
                .addComponent(txtCalle1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel16)
                .addComponent(txtCalle2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel17)
                .addComponent(txtFormattedNumero, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addContainerGap(31, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);
    jPanel4.setLayout(jPanel4Layout);
    jPanel4Layout.setHorizontalGroup(
        jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel4Layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jPanel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addContainerGap())
    );
    jPanel4Layout.setVerticalGroup(
        jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel4Layout.createSequentialGroup()
```

```java
            .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 18, Short.MAX_VALUE))
    );

    btnActualizar.setBackground(new java.awt.Color(51, 51, 255));
    btnActualizar.setText("Actualizar");
    btnActualizar.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnActualizarActionPerformed(evt);
      }
    });

    btnEliminar.setBackground(new java.awt.Color(255, 0, 0));
    btnEliminar.setText("Eliminar");
    btnEliminar.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnEliminarActionPerformed(evt);
      }
    });

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap(18, Short.MAX_VALUE)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
            .addComponent(btnActualizar)
            .addGap(67, 67, 67)
            .addComponent(btnEliminar)
            .addGap(67, 67, 67)
            .addComponent(btnCancelar)
            .addGap(92, 92, 92))
          .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
            .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(15, 15, 15))))
    );
    jPanel1Layout.setVerticalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(20, 20, 20)
```

```java
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
          .addComponent(btnActualizar)
          .addComponent(btnEliminar)
          .addComponent(btnCancelar))
        .addGap(18, 18, 18)
        .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(39, Short.MAX_VALUE))
    );

    tblAdministradores.setModel(new javax.swing.table.DefaultTableModel(
      new Object [][] {

      },
      new String [] {
        "Nombre", "Apellido", "Cédula", "Nacimiento", "Correo", "Password", "Genero", "Direccion"
      }
    ) {
      Class[] types = new Class [] {
        java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.String.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, false, false, false, false
      };

      public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
      }

      public boolean isCellEditable(int rowIndex, int columnIndex) {
        return canEdit [columnIndex];
      }
    });
    tblAdministradores.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        tblAdministradoresMouseClicked(evt);
      }
    });
    jScrollPane1.setViewportView(tblAdministradores);

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

```
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(35, 35, 35)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 622,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 30, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
      .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(93, 93, 93))
    );

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


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

    String nombre = txtNombre.getText();
    String apellido = txtApellido1.getText();
    String cedula = txtFormattedCedula.getText();
    Date fechaNacimiento = dateChooser.getDatoFecha();
    String genero = (String) cbxGenero.getSelectedItem();
    String email = txtEmail.getText();
    String password = txtPassword.getText();

    String calle1 = txtCalle1.getText();
    String calle2 = txtCalle2.getText();
    String numeroCalle = txtFormattedNumero.getText();

    if (nombre.isBlank() || apellido.isBlank() || cedula.isBlank() || fechaNacimiento == null || genero.equals("--
Seleccione--")
        || email.isBlank() || password.isBlank() || calle1.isBlank() || calle2.isBlank() || numeroCalle.isBlank()) {
      JOptionPane.showMessageDialog(this, "Llene todos los campos", "Error",
JOptionPane.ERROR_MESSAGE);
    } else {
      Direccion direccion = new Direccion(calle1, calle2, numeroCalle);
```

```
        /*Administrador admin = new Administrador(controladorAdministrador.generarID(),
            nombre, apellido, cedula, genero, direccion, fechaNacimiento, email, password);
        */
        try {
            Constructor<Administrador> constructor = Administrador.class.getDeclaredConstructor();
            constructor.setAccessible(true);
            Administrador admin = constructor.newInstance();

            admin.setId(controladorAdministrador.generarID());
            admin.setNombre(nombre);
            admin.setApellido(apellido);
            admin.setCedula(cedula);
            admin.setGenero(genero);
            admin.setFechaNacimiento(fechaNacimiento);
            admin.setDireccion(direccion);
            admin.setEmail(email);
            admin.setPassword(password);

            controladorAdministrador.update(admin, admin);
            JOptionPane.showMessageDialog(this, "Administrador actualizado con exito", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
            llenarTblAdministradores();
            inicioBotones();

        } catch (IllegalAccessException e) {
            e.printStackTrace();
        } catch (InstantiationException ex) {
            Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
        } catch (IllegalArgumentException ex) {
            Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
        } catch (InvocationTargetException ex) {
            Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
        } catch (NoSuchMethodException ex) {
            Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SecurityException ex) {
            Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
        }

    }

}

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

        try {
```

```java
        Constructor<Administrador> constructor = Administrador.class.getDeclaredConstructor();
        constructor.setAccessible(true);
        Administrador admin = constructor.newInstance();

        admin.setCedula((String) txtFormattedCedula.getValue());

        controladorAdministrador.delete(admin);
        JOptionPane.showMessageDialog(this, "Administrador eliminado con exito", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
        inicioBotones();
        llenarTblAdministradores();
        limpiar();

    } catch (IllegalAccessException e) {
        e.printStackTrace();
    } catch (InstantiationException ex) {
        Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
    } catch (IllegalArgumentException ex) {
        Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
    } catch (InvocationTargetException ex) {
        Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
    } catch (NoSuchMethodException ex) {
        Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SecurityException ex) {
        Logger.getLogger(VentanaCrearAdministrador.class.getName()).log(Level.SEVERE, null, ex);
    }

}

private void btnCancelarActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    inicioBotones();
    limpiar();
    llenarTblAdministradores();
}

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

    int row = tblAdministradores.getSelectedRow();

    txtNombre.setText(String.valueOf(tblAdministradores.getValueAt(row, 0)));
    txtApellido1.setText(String.valueOf(tblAdministradores.getValueAt(row, 1)));
    txtFormattedCedula.setValue(String.valueOf(tblAdministradores.getValueAt(row, 2)));
    txtEmail.setText(String.valueOf(tblAdministradores.getValueAt(row, 4)));
    txtPassword.setText(String.valueOf(tblAdministradores.getValueAt(row, 5)));
```

```java
    String[] calles = (String.valueOf(tblAdministradores.getValueAt(row, 7))).split(" ");
    txtCalle1.setText(calles[0]);
    txtCalle2.setText(calles[1]);
    txtFormattedNumero.setValue(calles[2]);

    cbxGenero.setSelectedItem((String.valueOf(tblAdministradores.getValueAt(row, 6))));
    //dateChooser.setDatoFecha((tblAdministradores.getComponentAt(row, 3)));
    cambioBotones();


}

public void limpiar() {
    txtNombre.setText("");
    txtApellido1.setText("");
    txtFormattedCedula.setValue("");
    dateChooser.setDatoFecha(new Date());
    cbxGenero.setSelectedIndex(0);
    txtEmail.setText("");
    txtPassword.setText("");

    txtCalle1.setText("");
    txtCalle2.setText("");
    txtFormattedNumero.setValue("");
}

// Variables declaration - do not modify
private javax.swing.JButton btnActualizar;
private javax.swing.JButton btnCancelar;
private javax.swing.JButton btnEliminar;
private javax.swing.JComboBox<String> cbxGenero;
private rojeru_san.rsdate.RSDateChooser dateChooser;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel15;
private javax.swing.JLabel jLabel16;
private javax.swing.JLabel jLabel17;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel9;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel4;
private javax.swing.JPanel jPanel5;
private javax.swing.JScrollPane jScrollPane1;
```

```
    private javax.swing.JTable tblAdministradores;
    private javax.swing.JTextField txtApellido1;
    private javax.swing.JTextField txtCalle1;
    private javax.swing.JTextField txtCalle2;
    private javax.swing.JTextField txtEmail;
    private javax.swing.JFormattedTextField txtFormattedCedula;
    private javax.swing.JFormattedTextField txtFormattedNumero;
    private javax.swing.JTextField txtNombre;
    private javax.swing.JPasswordField txtPassword;
    // End of variables declaration
}
```

- Demostración del programa:

Primero nos creamos un administrador:

Ahora demostraremos que si no iniciamos sesión no podemos abrir otra ventana:
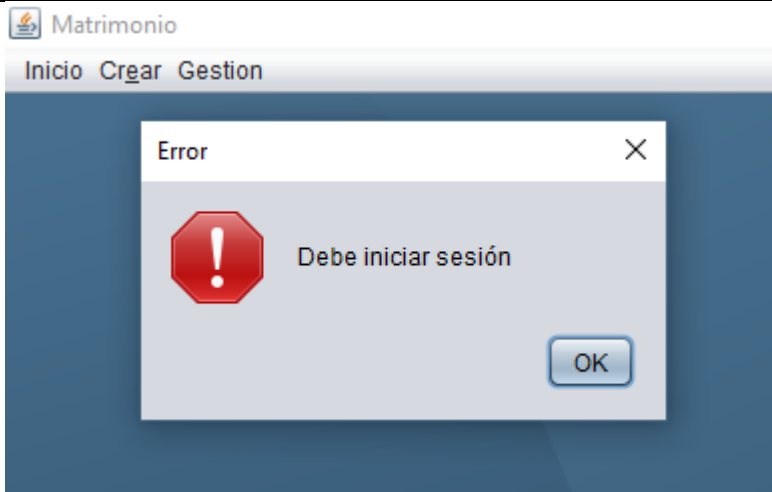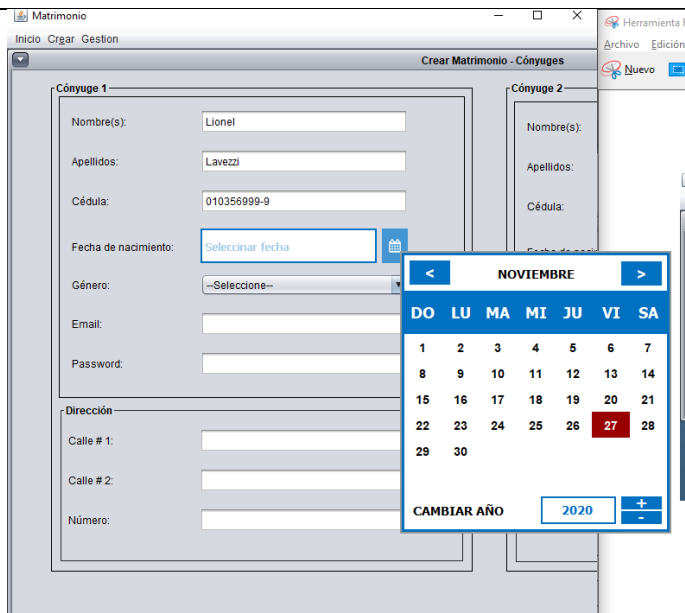
Ahora iniciamos sesión:
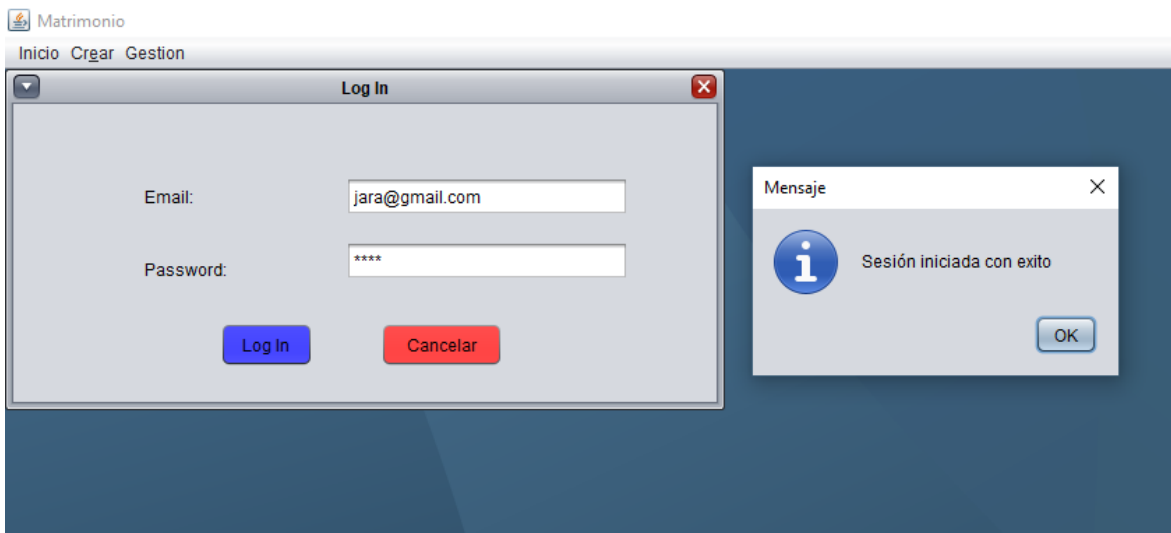
Ahora vamos a crear un matrimonio, para esto usamos una librería investigada en internet y nos sale el calendario para escoger la fecha y le da un mejor toque atractivo a la aplicación:

Como podemos ver se crean los cónyuges, y se aplasta el botón siguiente y se carga los datos de los testigos:

Se aplasta el botón siguiente y nos dirigirá a crear un juez:

Ahora aplastamos en finalizar y un matrimonio ha sido completado. Para comprobar, vamos a gestión matrimonios:

Como podemos observar tenemos varios matrimonios ya que varios fueron de prueba.

Ahora para ver los administradores:

Lo actualizamos:

Eliminar:

RESULTADO(S) OBTENIDO(S):

- Lograr aplicar y afianzar los conocimientos adquiridos en la unidad de la materia de Programación aplicada.
- Ampliar nuestro conocimiento sobre el mundo en Java.
- Construir una aplicación de la vida real.
- Utilizar archivos de objetos.
- Aplicar reflexión, programacion genérica, avancez en java.

CONCLUSIONES:

- En conclusión, este trabajo ha sido de mucha ayuda para aplicar los patrones aprendidos en clase, y además poder aplicar todo lo aprendido en la unidad número 1. Esto también me ha ayudado para prepararme para el examen Inter ciclo.

RECOMENDACIONES:

- NO existe ninguna recomendación.

*Nombre de estudiante***: ADOLFO SEBASTIAN JARA GAVILANES.**

*Firma de estudiante***:**