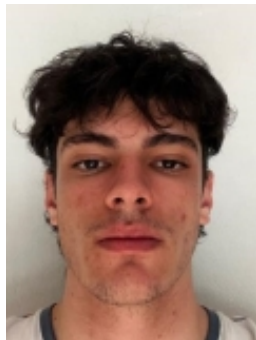Universidad ORT Uruguay Facultad de Ingeniería
Programación II
Obligatorio II-Grupo M2D

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Facultad de Ingeniería
Obligatorio 2 Programación 2

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Introducción

Para este obligatorio se realizó un sistema de gestión de personal para llamados de puestos de trabajo. El objetivo principal es simplificar y agilizar los procesos asociados a la identificación, evaluación y selección de candidatos.
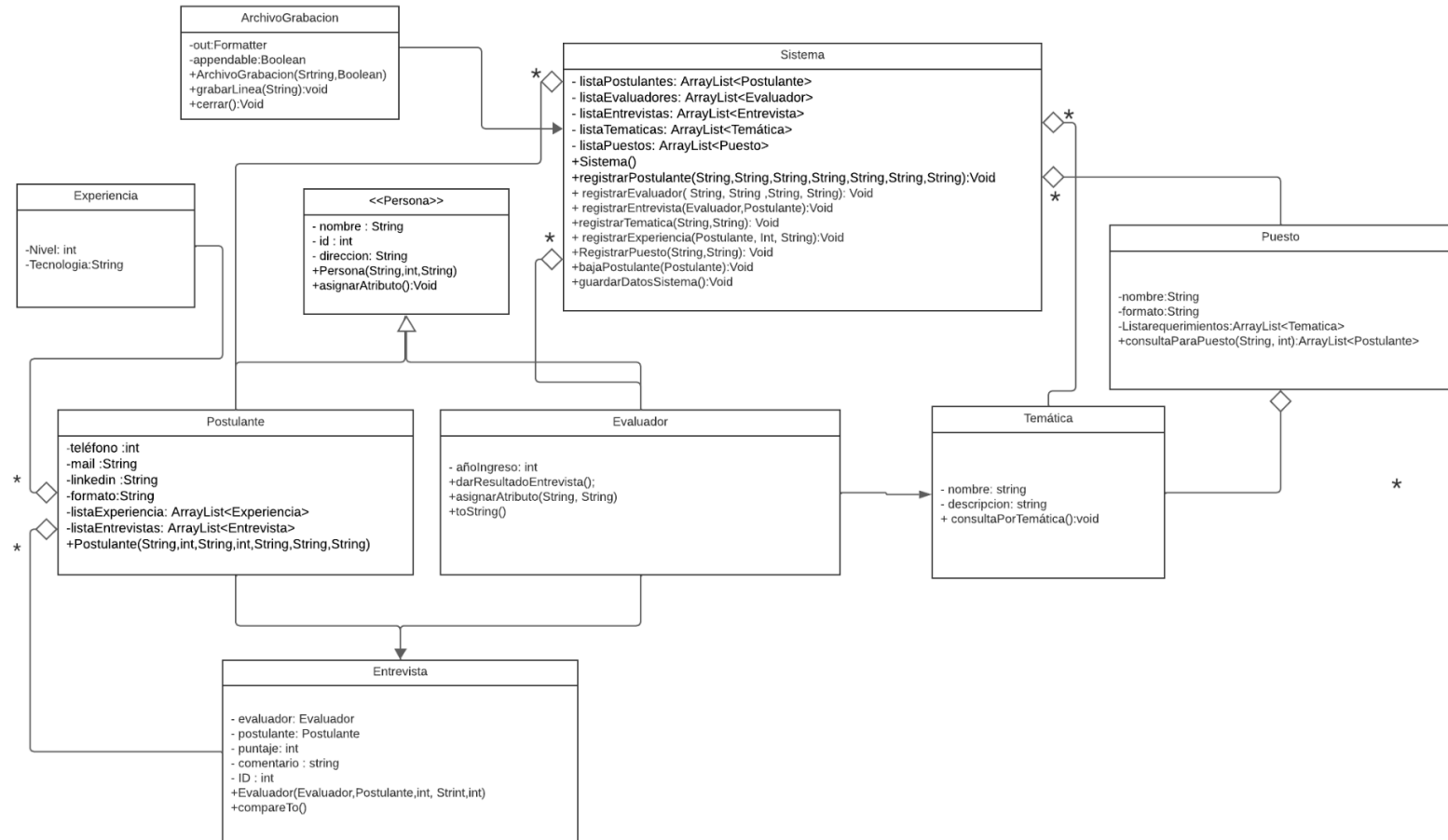
En este sistema se han definido diversas funcionalidades clave que permitirán a la consultora optimizar sus operaciones. Estas funcionalidades incluyen el registro de temáticas, el alta y baja de postulantes, el registro de evaluadores, el ingreso de entrevistas, el registro de puestos, consultas específicas para puestos, historial detallado de postulantes, consultas por temática, y la finalización del sistema.

El sistema se ha diseñado con una interfaz de usuario estilo Windows, presentando una ventana menú en la cual se van cambiando los paneles según se indique . Además, se ha priorizado la persistencia de la información y la actualización constante de los datos en pantalla.

Universidad ORT Uruguay

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Obligatorio 2 Programación 2

Link al video de youtube:

https://www.youtube.com/watch?v=IK8FHlT6qe8

Diagrama UML

ArchivoGrabacion
- -out:Formatter
- -appendable:Boolean
- +ArchivoGrabacion(Srtring,Boolean)
- +grabarLinea(String):void
- +cerrar():Void

Sistema
- - listaPostulantes: ArrayList<Postulante>
- - listaEvaluadores: ArrayList<Evaluador>
- - listaEntrevistas: ArrayList<Entrevista>
- - listaTematicas: ArrayList<Temática>
- - listaPuestos: ArrayList<Puesto>
- +Sistema()
- +registrarPostulante(String,String,String,String,String,String,String):Void
- + registrarEvaluador(String, String ,String, String): Void
- + registrarEntrevista(Evaluador,Postulante):Void
- +registrarTematica(String,String): Void
- + registrarExperiencia(Postulante, Int, String):Void
- +RegistrarPuesto(String,String): Void
- +bajaPostulante(Postulante):Void
- +guardarDatosSistema():Void

Experiencia
- -Nivel: int
- -Tecnologia:String

<<Persona>>
- - nombre : String
- - id : int
- - direccion: String
- +Persona(String,int,String)
- +asignarAtributo():Void

Puesto
- -nombre:String
- -formato:String
- -Listarequerimientos:ArrayList<Tematica>
- +consultaParaPuesto(String, int):ArrayList<Postulante>

Postulante
- -teléfono :int
- -mail :String
- -linkedin :String
- -formato:String
- -listaExperiencia: ArrayList<Experiencia>
- -listaEntrevistas: ArrayList<Entrevista>
- +Postulante(String,int,String,int,String,String,String)

Evaluador
- - añoIngreso: int
- +darResultadoEntrevista();
- +asignarAtributo(String, String)
- +toString()

Temática
- - nombre: string
- - descripcion: string
- + consultaPorTemática():void

Entrevista
- - evaluador: Evaluador
- - postulante: Postulante
- - puntaje: int
- - comentario : string
- - ID : int
- +Evaluador(Evaluador,Postulante,int, Strint,int)
- +compareTo()

Listado De Clases

Dominio:
- Entrevista
- Evaluador
- Experiencia
- Persona
- Postulante
- Puesto
- Sistema
- Temática

Interfaz:

- Menu
- altaPostulante
- bajaPostulante
- consultaPostulante
- historialTematica
- ingresoEntrevista
- inicio
- registroEvaluador
- registroTematica
- Prueba

Serialización:
- ArchivoGrabacion
-

Dominio

Sistema

```java
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Dominio;

import Exceptions.Exception_ParseNumero;
import Exceptions.Exception_StringVacio;
import java.util.ArrayList;
import Serializacion.*;
import Exceptions.Exception_DuplicateName;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.ObjectOutputStream;
import java.io.Serializable;
import java.util.Collections;
import java.util.Comparator;

public class Sistema implements Serializable {

    //Atributos
    private ArrayList<Postulante> listaPostulantes;
    private ArrayList<Evaluador> listaEvaluadores;
    private ArrayList<Entrevista> listaEntrevistas;
    private ArrayList<Tematica> listaTematicas;
    private ArrayList<Puesto> listaPuestos;

    //Costructor
    public Sistema() {
        listaPostulantes = new ArrayList();
        listaEvaluadores = new ArrayList();
        listaEntrevistas = new ArrayList();
        listaTematicas = new ArrayList();
        listaPuestos = new ArrayList();
    }


    //getters y setters
    public ArrayList<Postulante> getListaPostulantes() {
        return listaPostulantes;
    }
```

```java
public ArrayList<Evaluador> getListaEvaluadores() {
    return listaEvaluadores;
}

public ArrayList<Entrevista> getListaEntrevistas() {
    return listaEntrevistas;
}

public ArrayList<Tematica> getListaTematicas() {
    return listaTematicas;
}

public ArrayList<Puesto> getListaPuestos() {
    return listaPuestos;
}

public void setListaPostulantes(ArrayList<Postulante> listaPostulantes) {
    this.listaPostulantes = listaPostulantes;
}

public void setListaEvaluadores(ArrayList<Evaluador> listaEvaluadores) {
    this.listaEvaluadores = listaEvaluadores;
}

public void setListaEntrevistas(ArrayList<Entrevista> listaEntrevistas) {
    this.listaEntrevistas = listaEntrevistas;
}

public void setListaTematicas(ArrayList<Tematica> listaTematicas) {
    this.listaTematicas = listaTematicas;
}

public void setListaPuestos(ArrayList<Puesto> listaPuestos) {
    this.listaPuestos = listaPuestos;
}

//Metodos
public void registrarEvaluador(String nombre, String cedula, String direccion, String añoIngreso)
throws Exception_StringVacio, Exception_ParseNumero {
    if (nombre.equals("") || direccion.equals("") || añoIngreso.equals("") || cedula.equals("")) {
        throw new Exception_StringVacio("Error: Complete los campos vacios");
    } else {
        Evaluador ev = new Evaluador(nombre, cedula, direccion, añoIngreso);
        ArrayList<Evaluador> oldValue = this.getListaEvaluadores();
```

```
            this.getListaEvaluadores().add(ev);
        }
    }

    public void registrarTematica(String nombre, String descripcion) throws Exception_StringVacio,
Exception_DuplicateName {
        if (nombre.equals("") || descripcion.equals("")) {
            throw new Exception_StringVacio("Error: Complete los campos vacios");
        } else if (!esTematicaValida(nombre)) {
            throw new Exception_DuplicateName("Error:Nombre ya existente en el sistema");
        } else {
            Tematica tem = new Tematica(nombre, descripcion);
            this.getListaTematicas().add(tem);

        }

    }

    public void registrarExperiencia(Postulante pos, int nivel, String nombre) {
        Experiencia res = new Experiencia(nivel, nombre);
        pos.agregarExperiencia(res);
    }

    public void registrarPostulante(String nombre, String cedula, String direccion, String telefono,
String mail, String linkedin, String formato) throws Exception_StringVacio, Exception_ParseNumero
{
        if (nombre.equals("") || cedula.equals("") || direccion.equals("") || telefono.equals("") ||
mail.equals("") || linkedin.equals("") || formato.equals("")) {
            throw new Exception_StringVacio("Error: Complete los campos vacios");
        } else {
            try {
                int ced = Integer.parseInt(cedula);
                int tel = Integer.parseInt(telefono);
                Postulante post = new Postulante(nombre, Integer.parseInt(cedula), direccion,
Integer.parseInt(telefono), mail, linkedin, formato);
                this.getListaPostulantes().add(post);
            } catch (Exception e) {
                throw new Exception_ParseNumero("Error:Se ingreso un String no un numero");
            }

        }

    }
```

```java
    public void registrarPuesto(String nombre, String modalidad) throws Exception_StringVacio,
Exception_DuplicateName {
        if (nombre.equals("") || modalidad.equals("")) {
            throw new Exception_StringVacio("Error: Complete los campos vacios");
        } else if (!esPuestoValido(nombre)) {
            throw new Exception_DuplicateName("Error:Nombre de puesto ya existente en el sistema");
        } else {
            Puesto pues = new Puesto(nombre, modalidad);
            this.getListaPuestos().add(pues);

        }
    }


    public void registrarEntrevista(Evaluador ev, Postulante pos, String puntaje, int id, String
comentarios) throws Exception_StringVacio {
        String aux = String.valueOf(puntaje);
        if (aux.equals("") || comentarios.equals("") || ev == null || pos == null) {
            throw new Exception_StringVacio("Error:campo sin completar");
        }
        try {
            int punt = Integer.parseInt(puntaje);
            Entrevista ent = new Entrevista(ev, pos, punt, id, comentarios);
            pos.getListaEntrevistasP().add(ent);
            this.getListaEntrevistas().add(ent);
        } catch (Exception e) {

        }

    }

    public void bajaPostulante(Postulante post) {
        this.getListaPostulantes().remove(post);
        for (int i = 0; i < this.getListaEntrevistas().size(); i++) {
            if (this.getListaEntrevistas().get(i).getPostulante().equals(post)) {
                this.getListaEntrevistas().remove(i);
            }

        }

    }

    public ArrayList<Postulante> darListaPostulantesPorPuesto(Puesto puesto, int nivel) {
        //Filtra la lista de postulantes en base al puesto y nivel que se elijan
        ArrayList<Postulante> listaPost = this.getListaPostulantes();
```

```java
    ArrayList<Postulante> listaRetorno = new ArrayList();
    ArrayList<Tematica> listaRequerimientos = puesto.getListaRequerimientos();
    for (int i = 0; i < listaPost.size(); i++) {
        Postulante post = listaPost.get(i);
        ArrayList<Experiencia> listaExp = post.getListaExperiencia();
        for (int j = 0; j < listaRequerimientos.size(); j++) {
            Tematica requerimiento = listaRequerimientos.get(j);
            String temaPos = listaExp.get(j).getExperiencia();
            int cantEntrevista = post.getListaEntrevistas().size();
            int nivelPos = listaExp.get(j).getNivel();
            String formatoPos = post.getFormato();
            String tema = requerimiento.getNombre();
            String formato = puesto.getModalidad();
            if (temaPos.equalsIgnoreCase(tema) && nivelPos >= nivel &&
formatoPos.equalsIgnoreCase(formato) && cantEntrevista > 0) {
                listaRetorno.add(post);
            }
        }
    }
    Collections.sort(listaRetorno, new Comparator<Postulante>() {
        // se ordenan segun el puntaje de la ultima entrevista
        @Override
        public int compare(Postulante post1, Postulante post2) {
            // Comparar por el puntaje de la última entrevista
            return Integer.compare(post2.getUltimoPuntajeEntrevista(),
post1.getUltimoPuntajeEntrevista());
        }
    });
    return listaRetorno;
}

public boolean esTematicaValida(String nom) {
    boolean res = true;
    for (Tematica t : this.getListaTematicas()) {
        if (t.getNombre().equalsIgnoreCase(nom)) {
            res = false;
        }
    }
    return res;
}

public boolean esCedulaValidaPos(String id) {
    //verifica si no hya cedula duplicada
    boolean res = true;
```

```java
    for (int i = 0; i < this.getListaPostulantes().size(); i++) {
      if (String.valueOf(this.getListaPostulantes().get(i).getId()).equals(id)) {
        res = false;
      }
    }
    return res;
  }

  public boolean esPuestoValido(String nom) {
    //verifica si no hay nombres de puestos duplicados
    boolean res = true;
    for (Puesto t : this.getListaPuestos()) {
      if (t.getNombrePuesto().equalsIgnoreCase(nom)) {
        res = false;
      }
    }
    return res;
  }

  public void guardarDataPuesto(String pathArchivo, ArrayList<Postulante> listaPos, Puesto puesto)
{

    ArchivoGrabacion agDatos = new ArchivoGrabacion(pathArchivo, false);
    String lineaNombrePuesto = puesto.getNombrePuesto();
    agDatos.grabarLinea(lineaNombrePuesto);
    agDatos.cerrar();

    for (int i = 0; i < listaPos.size(); i++) {
      Postulante postulante = listaPos.get(i);
      postulante.grabarPostulante(pathArchivo);
    }
    agDatos.cerrar();

  }

  public boolean sistemaEstaVacio() {
    return this.getListaEntrevistas().isEmpty()
        && this.getListaEvaluadores().isEmpty()
        && this.getListaPostulantes().isEmpty()
        && this.getListaPuestos().isEmpty()
        && this.getListaTematicas().isEmpty();

  }

  public void resetearSistema() {
```

```java
        ArchivoGrabacion agDataSistema = new ArchivoGrabacion("Data\\data.txt", false);
        ArchivoGrabacion agDataPuesto = new ArchivoGrabacion("consulta.txt", false);
        vaciarListas();
    }

    public int cantPuestosTematica(Tematica tem){
        int cont = 0;
        for(Puesto pues: this.getListaPuestos()){
            if(pues.getListaRequerimientos().contains(tem)){
                cont++;
            }
        }
        return cont;
    }

    public void vaciarListas() {
        this.getListaEntrevistas().clear();
        this.getListaEvaluadores().clear();
        this.getListaPostulantes().clear();
        this.getListaPuestos().clear();
        this.getListaTematicas().clear();
    }

    public void guardarDatosSistema() throws IOException {
        ObjectOutputStream out = new ObjectOutputStream(new FileOutputStream("Data\\data.txt"));
        out.writeObject(this);
        out.close();
    }

}
```

Persona
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Dominio;

```java
import Exceptions.Exception_ParseNumero;
import Exceptions.Exception_StringVacio;
import java.io.Serializable;


abstract class Persona implements Serializable {
    //Atributos
    private String nombre;
    private int id;
    private String direccion;
    //contrucotr
    public Persona(){
    }
    public Persona(String nombre, int id, String direccion) {
        this.nombre = nombre;
        this.id = id;
        this.direccion = direccion;
    }

    public Persona(String nombre, String id, String direccion) throws
Exception_StringVacio, Exception_ParseNumero {
        asignarAtributo("nombre", nombre);
        asignarAtributo("id", id);
        asignarAtributo("direccion", direccion);
    }

//metodos
    public String getNombre() {
        return nombre;
    }

    public int getId() {
        return id;
    }

    public String getDireccion() {
        return direccion;
    }

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

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

public void setDireccion(String direccion) {
    this.direccion = direccion;
}

public int getInteger(String valor) throws NumberFormatException{
    return Integer.parseInt(valor);
}
public void asignarAtributo(String at, String valor) throws Exception_StringVacio,
Exception_ParseNumero{
    if (valor.equalsIgnoreCase("")){
        throw new Exception_StringVacio("Ingrese su "+at);
    } else {
        switch (at){
            case "nombre":
            this.nombre = valor;
            break;
            case "id" :
                try{
                    this.id = getInteger(valor);
                }catch(NumberFormatException e){
                    throw new Exception_ParseNumero("Ingrese unicamente numeros para su id
");
                }
                break;
            case "direccion":
            this.direccion = valor;
            break;
        }

    }

}
}
```

Postulante
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Dominio;

```java
import Exceptions.Exception_ParseNumero;
import Exceptions.Exception_StringVacio;
import java.util.ArrayList;
import Serializacion.*;

import java.io.Serializable;

public class Postulante extends Persona implements Serializable, Comparable<Postulante>{

    //Atributos


    private int telefono;
    private String mail;
    private String link;
    private String formato;
    private ArrayList<Experiencia> listaExperiencia;
    private ArrayList<Entrevista> listaEntrevistas;
    //constructor

    public Postulante(String nombre, int id, String direccion, int telefono, String mail, String
link, String formato) {
        super(nombre, id, direccion);
        this.telefono = telefono;
        this.mail = mail;
        this.link = link;
        this.formato = formato;
        this.listaExperiencia = new ArrayList<Experiencia>();
        this.listaEntrevistas = new ArrayList<Entrevista>();

    }

    public ArrayList<Entrevista> getListaEntrevistas() {
        return listaEntrevistas;
    }

    public Postulante(String nombre, String id, String direccion, String telefono, String mail,
String link, String formato) throws Exception_StringVacio, Exception_ParseNumero {
        super(nombre, id, direccion);
        this.telefono = Integer.parseInt(telefono);
        this.mail = mail;
        this.link = link;
        this.formato = formato;
        this.listaExperiencia = new ArrayList<Experiencia>();
```

```
}

//metodos
public int getTelefono() {
    return telefono;
}

public ArrayList<Entrevista> getListaEntrevistasP() {
    return listaEntrevistas;
}

public void setListaEntrevistasP(ArrayList<Entrevista> listaEntrevistas) {
    this.listaEntrevistas = listaEntrevistas;
}

public ArrayList<Experiencia> getListaExperiencia() {
    return listaExperiencia;
}

public void setListaExperiencia(ArrayList<Experiencia> listaExperiencia) {
    this.listaExperiencia = listaExperiencia;
}

public void agregarExperiencia(Experiencia e) {
    this.getListaExperiencia().add(e);
}

public String getMail() {
    return mail;
}

public String getLink() {
    return link;
}

public String getFormato() {
    return formato;
}

public void setTelefono(int telefono) {
    this.telefono = telefono;
}

public void setMail(String mail) {
```

```java
    this.mail = mail;
}

public void setLink(String link) {
    this.link = link;
}

public void setFormato(String formato) {
    this.formato = formato;
}
public int getUltimoPuntajeEntrevista(){
    ArrayList<Entrevista> listaEntrevista = this.getListaEntrevistas();
    int ultima = listaEntrevista.size()-1;
    int puntaje = listaEntrevista.get(ultima).getPuntaje();
    return puntaje;
}
public void grabarPostulante(String pathArchivo) {
    ArchivoGrabacion agDatos = new ArchivoGrabacion(pathArchivo, true);
    String lineaNombre = this.getNombre();
    String lineaCedula = "" + this.getId();
    String lineaMail = this.getMail();
    agDatos.grabarLinea(lineaNombre);
    agDatos.grabarLinea(lineaCedula);
    agDatos.grabarLinea(lineaMail);
    agDatos.cerrar();
}

public boolean postulanteTieneExperienciaMayorNivel(int nivel,Tematica tematica){
    ArrayList<Experiencia> listaExperiencia = this.getListaExperiencia() ;
    Boolean contiene = false;
    for (int i=0;i<listaExperiencia.size()&&!contiene;i++){
        Experiencia experiencia = listaExperiencia.get(i);
        String nombreExp =experiencia.getExperiencia();
        int nivelExp = experiencia.getNivel();
        if (nombreExp.equals(tematica.getNombre())&&nivelExp>nivel){
            contiene = true;
        }
    }
    return contiene ;
}

@Override
public String toString() {
    return this.getNombre() + "(" + this.getId() + ')';
```

```
    }

    @Override
    public int compareTo(Postulante pos) {
        return this.getId() - pos.getId();
    }

}
```

Evaluador
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Dominio;

import Exceptions.Exception_ParseNumero;
import Exceptions.Exception_StringVacio;

```java
import java.io.Serializable;


public class Evaluador extends Persona implements Serializable{
    //Atributos
    private int añoIngreso;
    //constructor

    public Evaluador(String nombre, int id, String direccion,int añoIngreso) {
        super(nombre,id,direccion);
        this.añoIngreso = añoIngreso;
    }
        public Evaluador(String nombre, String id, String direccion,String añoIngreso) throws
Exception_StringVacio, Exception_ParseNumero {
        super(nombre,id,direccion);
        asignarAtributo("añoIngreso",añoIngreso);
    }

    //metodos

    public int getAñoIngreso() {
        return añoIngreso;
    }

    public void setAñoIngreso(int añoIngreso) {
        this.añoIngreso = añoIngreso;
    }

    public void darResultadoentrevista(){

    }

    @Override
    public void asignarAtributo(String at, String valor) throws Exception_StringVacio,
Exception_ParseNumero {
         if (valor.equalsIgnoreCase("") && at.equals("añoIngreso")) {
        throw new Exception_StringVacio("Ingrese su año de ingreso");
    } else if (at.equals("añoIngreso")) {
        try {
            this.añoIngreso = getInteger(valor);
        } catch (NumberFormatException e) {
            throw new Exception_ParseNumero("Ingrese únicamente números para su año de
ingreso");
        }
```

```
        }
        super.asignarAtributo(at, valor); // Llama al método de Personas


    }

    @Override
    public String toString() {
        return this.getNombre()+"("+this.getId()+")";
    }
}
```

```
Tematica
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Dominio;

import Serializacion.ArchivoGrabacion;
import java.io.Serializable;

/**
 *
```

```java
 * @author andre
 */
public class Tematica implements Serializable{
    //atributos
    private String nombre;
    private String descripcion;
    //constructor
    public Tematica(String nombre, String descripcion) {
        this.nombre = nombre;
        this.descripcion = descripcion;
    }
    //metodos

    public String getNombre() {
        return nombre;
    }

    public String getDescripcion() {
        return descripcion;
    }

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

    public void setDescripcion(String descripcion) {
        this.descripcion = descripcion;
    }

    @Override
    public String toString() {
        return  nombre;
    }

}
```

Experiencia
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Dominio;

import java.io.Serializable;

public class Experiencia implements Serializable {
    //atributos
    private int nivel;

```java
    private String experiencia;
    //construcor
    public Experiencia(int nivel, String nombre) {
        this.experiencia = nombre;
        this.nivel = nivel;

    }
    //metodos
    public int getNivel() {
        return nivel;
    }
    public void setNivel(int nivel) {
        this.nivel = nivel;
    }

    public void setExperiencia(String experiencia) {
        this.experiencia = experiencia;
    }

    public String getExperiencia() {
        return experiencia;
    }

    @Override
    public String toString() {
        return this.getExperiencia() + "-"+ this.getNivel();
    }

}
```

Puesto
```java
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Dominio;

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

public class Puesto implements Serializable{
    //Atributos
    private String nombrePuesto;
    private String modalidad;
    private ArrayList<Tematica> listaRequerimientos;
```

```java
//Costructor

public Puesto(String nombrePuesto, String modalidad) {
    this.nombrePuesto = nombrePuesto;
    this.modalidad = modalidad;
    this.listaRequerimientos = new ArrayList();
}

//Metodos
//setters y getters

public void setNombrePuesto(String nombrePuesto) {
    this.nombrePuesto = nombrePuesto;
}

public void setModalidad(String modalidad) {
    this.modalidad = modalidad;
}

public void setListaRequerimientos(ArrayList<Tematica> listaRequerimientos) {
    this.listaRequerimientos = listaRequerimientos;
}

public String getNombrePuesto() {
    return nombrePuesto;
}

public String getModalidad() {
    return modalidad;
}

public ArrayList<Tematica> getListaRequerimientos() {
    return listaRequerimientos;
}
//otros metodos
public ArrayList<Postulante> consultaParaPuestos(String puesto, int nivel){
    return null;
}

public void agregarRequerimiento(Tematica tem){
    this.getListaRequerimientos().add(tem);
}

@Override
```

```java
public String toString() {
    return this.nombrePuesto;
}

}
```

Entrevista
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Dominio;

import java.io.Serializable;


```java
public class Entrevista implements Comparable<Entrevista>, Serializable{
    //Atributos
    private Evaluador evaluador;
    private Postulante postulante;
    private String comentarios;
    private int puntaje;
```

```java
    private int id;

    //constructor
    public Entrevista(Evaluador evaluador, Postulante postulante, int puntaje, int id, String
comen) {
        this.evaluador = evaluador;
        this.postulante = postulante;
        this.puntaje = puntaje;
        this.comentarios = comen;
        this.id = id;


    }
    //Getter y setters
    public Evaluador getEvaluador() {
        return evaluador;
    }

    public Postulante getPostulante() {
        return postulante;
    }

    public String getComentarios() {
        return comentarios;
    }

    public int getPuntaje() {
        return puntaje;
    }

    public int getId() {
        return id;
    }

    public void setEvaluador(Evaluador evaluador) {
        this.evaluador = evaluador;
    }

    public void setPostulante(Postulante postulante) {
        this.postulante = postulante;
    }

    public void setComentarios(String comentarios) {
        this.comentarios = comentarios;
```

```java
    }

    public void setPuntaje(int puntaje) {
        this.puntaje = puntaje;
    }

    public void setId(int id) {
        this.id = id+1;
    }

    @Override
    public int compareTo(Entrevista ent) {
        return this.id - ent.id;
    }

}
```

Interfaz
Menu
//Autores: Andres Dalla Rizza, Rodrigo Soca


```java
package Interfaz;

import Dominio.Sistema;

import java.awt.BorderLayout;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;
import java.io.IOException;
import java.util.logging.Level;
import java.util.logging.Logger;
```

```java
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.JPanel;


public class Menu extends javax.swing.JFrame {
    //atributos
    private Sistema modelo;
    private inicio vIn;

    //constructores
    public Menu() {
        initComponents();
        vIn = new inicio(modelo, this);
        agregarPanel(vIn);
    }

    public Menu(Sistema miModelo) {
        this.setTitle("Registro Personal ");

        this.modelo = miModelo;
        initComponents();
        vIn = new inicio(modelo, this);
        agregarPanel(vIn);
        this.guardarAlcerrar();

    }

    public Menu(Sistema miModelo, JPanel panel) {
        this.modelo = miModelo;
        Contenido = new JPanel();

        initComponents();
        agregarPanel(panel);
    }

    public void setModelo(Sistema modelo) {
        this.modelo = 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.
```

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

    jFrame1 = new javax.swing.JFrame();
    jFrame2 = new javax.swing.JFrame();
    jMenuItem1 = new javax.swing.JMenuItem();
    jMenu1 = new javax.swing.JMenu();
    Contenido = new javax.swing.JPanel();
    jMenuBar3 = new javax.swing.JMenuBar();
    menuInicio = new javax.swing.JMenu();
    jMenu9 = new javax.swing.JMenu();
    menuRegistroTematica = new javax.swing.JMenuItem();
    menuConsultaTematica = new javax.swing.JMenuItem();
    menuBajaPostulante = new javax.swing.JMenu();
    menuDarAltaPostulante = new javax.swing.JMenuItem();
    menuDarBajaPostulante = new javax.swing.JMenuItem();
    menuHistorialPostulante = new javax.swing.JMenuItem();
    jMenu11 = new javax.swing.JMenu();
    menuRegistrarEvaluador = new javax.swing.JMenuItem();
    jMenu12 = new javax.swing.JMenu();
    menuRegistrarEntrevista = new javax.swing.JMenuItem();
    menuPuesto = new javax.swing.JMenu();
    menuRegistrarPuesto = new javax.swing.JMenuItem();
    menuConsultaPuesto = new javax.swing.JMenuItem();

    javax.swing.GroupLayout jFrame1Layout = new
javax.swing.GroupLayout(jFrame1.getContentPane());
    jFrame1.getContentPane().setLayout(jFrame1Layout);
    jFrame1Layout.setHorizontalGroup(
        jFrame1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 400, Short.MAX_VALUE)
    );
    jFrame1Layout.setVerticalGroup(
        jFrame1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 300, Short.MAX_VALUE)
    );

    javax.swing.GroupLayout jFrame2Layout = new
javax.swing.GroupLayout(jFrame2.getContentPane());
    jFrame2.getContentPane().setLayout(jFrame2Layout);
    jFrame2Layout.setHorizontalGroup(
        jFrame2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```java
        .addGap(0, 400, Short.MAX_VALUE)
    );
    jFrame2Layout.setVerticalGroup(
        jFrame2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 300, Short.MAX_VALUE)
    );

    jMenuItem1.setText("jMenuItem1");

    jMenu1.setText("jMenu1");

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    javax.swing.GroupLayout ContenidoLayout = new
javax.swing.GroupLayout(Contenido);
    Contenido.setLayout(ContenidoLayout);
    ContenidoLayout.setHorizontalGroup(

ContenidoLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 943, Short.MAX_VALUE)
    );
    ContenidoLayout.setVerticalGroup(

ContenidoLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 890, Short.MAX_VALUE)
    );

    jMenuBar3.setAlignmentY(0.5F);
    jMenuBar3.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N

    menuInicio.setText("Inicio");
    menuInicio.setFocusable(false);
    menuInicio.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
    menuInicio.addMenuListener(new javax.swing.event.MenuListener() {
        public void menuCanceled(javax.swing.event.MenuEvent evt) {
        }
        public void menuDeselected(javax.swing.event.MenuEvent evt) {
        }
        public void menuSelected(javax.swing.event.MenuEvent evt) {
            menuInicioMenuSelected(evt);
        }
    });
    menuInicio.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
          menuInicioActionPerformed(evt);
      }
});
jMenuBar3.add(menuInicio);

jMenu9.setText("Tematica  ");
jMenu9.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
jMenu9.setMargin(new java.awt.Insets(3, 6, 6, 6));

menuRegistroTematica.setText("Registrar");
menuRegistroTematica.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      menuRegistroTematicaActionPerformed(evt);
   }
});
jMenu9.add(menuRegistroTematica);

menuConsultaTematica.setText("Consultar");
menuConsultaTematica.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      menuConsultaTematicaActionPerformed(evt);
   }
});
jMenu9.add(menuConsultaTematica);

jMenuBar3.add(jMenu9);

menuBajaPostulante.setText("Postulante");
menuBajaPostulante.setFocusable(false);
menuBajaPostulante.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
menuBajaPostulante.setMargin(new java.awt.Insets(3, 9, 3, 6));

menuDarAltaPostulante.setText("Dar de alta");
menuDarAltaPostulante.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      menuDarAltaPostulanteActionPerformed(evt);
   }
});
menuBajaPostulante.add(menuDarAltaPostulante);

menuDarBajaPostulante.setText("Dar de baja");
menuDarBajaPostulante.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      menuDarBajaPostulanteActionPerformed(evt);
```

```java
      }
   });
   menuBajaPostulante.add(menuDarBajaPostulante);

   menuHistorialPostulante.setText("Historial postulante");
   menuHistorialPostulante.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
         menuHistorialPostulanteActionPerformed(evt);
      }
   });
   menuBajaPostulante.add(menuHistorialPostulante);

   jMenuBar3.add(menuBajaPostulante);

   jMenu11.setText("Evaluador");
   jMenu11.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N

   menuRegistrarEvaluador.setText("Registrar");
   menuRegistrarEvaluador.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
         menuRegistrarEvaluadorActionPerformed(evt);
      }
   });
   jMenu11.add(menuRegistrarEvaluador);

   jMenuBar3.add(jMenu11);

   jMenu12.setText("Entrevista");
   jMenu12.setFocusable(false);
   jMenu12.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N

   menuRegistrarEntrevista.setText("Ingresar");
   menuRegistrarEntrevista.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
         menuRegistrarEntrevistaActionPerformed(evt);
      }
   });
   jMenu12.add(menuRegistrarEntrevista);

   jMenuBar3.add(jMenu12);

   menuPuesto.setText("Puesto");
   menuPuesto.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
```

```java
        menuRegistrarPuesto.setText("Registrar");
        menuRegistrarPuesto.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                menuRegistrarPuestoActionPerformed(evt);
            }
        });
        menuPuesto.add(menuRegistrarPuesto);

        menuConsultaPuesto.setText("Consultar");
        menuConsultaPuesto.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                menuConsultaPuestoActionPerformed(evt);
            }
        });
        menuPuesto.add(menuConsultaPuesto);

        jMenuBar3.add(menuPuesto);

        setJMenuBar(jMenuBar3);

        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(Contenido, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(Contenido, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, Short.MAX_VALUE))
        );

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

    private void menuRegistroTematicaActionPerformed(java.awt.event.ActionEvent evt) {
        registroTematica ventR = new registroTematica(modelo);

        agregarPanel(ventR);
```

```java
    }

    private void menuConsultaTematicaActionPerformed(java.awt.event.ActionEvent evt) {
        if (this.modelo.getListaTematicas().size() == 0) {
            darOpcionesExepciones("Tematica");

        } else {

            consultaTematica vTem = new consultaTematica(modelo);
            agregarPanel(vTem);
        }

    }

    private void menuDarAltaPostulanteActionPerformed(java.awt.event.ActionEvent evt) {
        if (this.modelo.getListaTematicas().isEmpty()) {
            darOpcionesExepciones("Tematica");
        } else {
            altaPostulante ventAP = new altaPostulante(modelo);
            agregarPanel(ventAP);
        }
    }

    private void menuDarBajaPostulanteActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        if (this.modelo.getListaTematicas().isEmpty()) {
            darOpcionesExepciones("Tematica");
        } else if (this.modelo.getListaPostulantes().isEmpty()) {
            darOpcionesExepciones("Postulante");

        } else {
            bajaPostulante v = new bajaPostulante(modelo);
            agregarPanel(v);
        }
    }

    private void menuHistorialPostulanteActionPerformed(java.awt.event.ActionEvent evt) {
        if (this.modelo.getListaTematicas().isEmpty()) {
            darOpcionesExepciones("Tematica");
        } else if (this.modelo.getListaPostulantes().isEmpty()) {
            darOpcionesExepciones("Postulante");

        } else {
```

```java
        historialPostulante v = new historialPostulante(modelo);
        agregarPanel(v);
    }
}

private void menuRegistrarEvaluadorActionPerformed(java.awt.event.ActionEvent evt) {
    registroEvaluador v = new registroEvaluador(modelo);
    agregarPanel(v);
}

private void menuRegistrarEntrevistaActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if (this.modelo.getListaTematicas().isEmpty()) {
        darOpcionesExepciones("Tematica");
    } else if (this.modelo.getListaPostulantes().isEmpty()) {
        darOpcionesExepciones("Postulante");

    } else if (this.modelo.getListaEvaluadores().isEmpty()) {

        darOpcionesExepciones("Evaluador");

    } else {
        ingresoEntrevista v = new ingresoEntrevista(modelo);
        agregarPanel(v);
    }
}

private void menuRegistrarPuestoActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if (this.modelo.getListaTematicas().isEmpty()) {
        darOpcionesExepciones("Tematica");

    } else {
        registroPuesto v = new registroPuesto(modelo);
        agregarPanel(v);
    }
}

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

private void menuInicioMenuSelected(javax.swing.event.MenuEvent evt) {
```

```java
        agregarPanel(vIn);

    }

    private void menuConsultaPuestoActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        if (this.modelo.getListaTematicas().isEmpty()) {
            darOpcionesExepciones("Tematica");

        } else if (this.modelo.getListaPuestos().isEmpty()) {
            darOpcionesExepciones("Puesto");

        } else {
            consultaPuesto v = new consultaPuesto(modelo);
            agregarPanel(v);
        }
    }
    public void agregarPanel(JPanel panel) {
        panel.setSize(850, 880);
        panel.setLocation(0, 0);
        Contenido.removeAll();
        Contenido.add(panel, BorderLayout.CENTER);
        Contenido.revalidate();
        Contenido.repaint();
    }

    public void guardarAlcerrar() {
        this.setDefaultCloseOperation(JFrame.DO_NOTHING_ON_CLOSE);
        this.addWindowListener(new WindowAdapter() {
            public void windowClosing(WindowEvent e) {
                try {
                    modelo.guardarDatosSistema();
                } catch (IOException ex) {
                    Logger.getLogger(Menu.class.getName()).log(Level.SEVERE, null, ex);
                }
                System.exit(0);
            }

        });
    }

    public void darOpcionesExepciones(String opMenu) {
        Object[] opciones = {"Ingresar", "Cancelar"};
        String mensaje = "Ingrese " + opMenu;
```

```java
        int opcionSeleccionada = JOptionPane.showOptionDialog(this,
                mensaje,
                "Confirmación",
                JOptionPane.YES_NO_OPTION,
                JOptionPane.QUESTION_MESSAGE,
                null,
                opciones, opciones[0]);
    if (opcionSeleccionada == 0) {
        switch (opMenu.toLowerCase()) {
            case "tematica":
                registroTematica ventR = new registroTematica(modelo);
                agregarPanel(ventR);
                break;
            case "postulante":
                altaPostulante ventAP = new altaPostulante(modelo);
                agregarPanel(ventAP);
                break;
            case "evaluador":
                registroEvaluador vEv = new registroEvaluador(modelo);
                agregarPanel(vEv);
                break;
            case "puesto":
                registroPuesto vpuesto = new registroPuesto(modelo);
                agregarPanel(vpuesto);
                break;
        }
    }
}

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

```
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Menu.class.getName()).log(java.util.logging.Level.SEVER
E, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Menu.class.getName()).log(java.util.logging.Level.SEVER
E, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Menu.class.getName()).log(java.util.logging.Level.SEVER
E, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Menu.class.getName()).log(java.util.logging.Level.SEVER
E, null, ex);
    }
    //</editor-fold>

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

}


    // Variables declaration - do not modify
    private javax.swing.JPanel Contenido;
    private javax.swing.JFrame jFrame1;
    private javax.swing.JFrame jFrame2;
    private javax.swing.JMenu jMenu1;
    private javax.swing.JMenu jMenu11;
    private javax.swing.JMenu jMenu12;
    private javax.swing.JMenu jMenu9;
    private javax.swing.JMenuBar jMenuBar3;
    private javax.swing.JMenuItem jMenuItem1;
    private javax.swing.JMenu menuBajaPostulante;
```

```java
    private javax.swing.JMenuItem menuConsultaPuesto;
    private javax.swing.JMenuItem menuConsultaTematica;
    private javax.swing.JMenuItem menuDarAltaPostulante;
    private javax.swing.JMenuItem menuDarBajaPostulante;
    private javax.swing.JMenuItem menuHistorialPostulante;
    private javax.swing.JMenu menuInicio;
    private javax.swing.JMenu menuPuesto;
    private javax.swing.JMenuItem menuRegistrarEntrevista;
    private javax.swing.JMenuItem menuRegistrarEvaluador;
    private javax.swing.JMenuItem menuRegistrarPuesto;
    private javax.swing.JMenuItem menuRegistroTematica;
    // End of variables declaration
}
```

Inicio

```java
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Interfaz;

import Dominio.Sistema;
import java.io.EOFException;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.nio.file.Files;
import java.nio.file.Paths;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;


public class inicio extends javax.swing.JPanel {

    private Sistema modelo;
    private Menu menu;
    private boolean cargarDatos = false;


    public inicio() {
        modelo = new Sistema();
        initComponents();
    }

    public inicio(Sistema miModelo, Menu miMenu) {
        setMenu(miMenu);
        this.modelo = miModelo;
        initComponents();
        jProgressBarCar.setVisible(false);
    }

    public void setMenu(Menu menu) {
        this.menu = menu;
    }

    /**
     * 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")
```

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

    jLabel2 = new javax.swing.JLabel();
    btnCargar = new javax.swing.JButton();
    btnCont = new javax.swing.JButton();
    btnReset = new javax.swing.JButton();
    jProgressBarCar = new javax.swing.JProgressBar();
    jProgressBar2 = new javax.swing.JProgressBar();

    jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 48)); // NOI18N
    jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    jLabel2.setText("GESTION DE PERSONAL");

    btnCargar.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
    btnCargar.setText("Cargar Datos Guardados");
    btnCargar.setToolTipText("");
    btnCargar.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnCargarActionPerformed(evt);
        }
    });

    btnCont.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
    btnCont.setText("Continuar Desde Un Sistema Vacio");
    btnCont.setToolTipText("");
    btnCont.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnContActionPerformed(evt);
        }
    });

    btnReset.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
    btnReset.setText("Resetear");
    btnReset.setToolTipText("");
    btnReset.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnResetActionPerformed(evt);
        }
    });

    jProgressBarCar.addComponentListener(new java.awt.event.ComponentAdapter() {
        public void componentHidden(java.awt.event.ComponentEvent evt) {
            jProgressBarCarComponentHidden(evt);
```

```
        }
    });

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
    this.setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addContainerGap(111, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
false)
                .addComponent(jProgressBar2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jProgressBarCar, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(btnCargar, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE, 609,
Short.MAX_VALUE)
                .addComponent(btnCont, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(btnReset, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
            .addGap(129, 129, 129))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(91, 91, 91)
            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 66,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(67, 67, 67)
            .addComponent(btnCont, javax.swing.GroupLayout.PREFERRED_SIZE, 77,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(67, 67, 67)
            .addComponent(btnCargar, javax.swing.GroupLayout.PREFERRED_SIZE, 77,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jProgressBarCar, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(47, 47, 47)
```

```
            .addComponent(btnReset, javax.swing.GroupLayout.PREFERRED_SIZE, 77,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 0, 0)
            .addComponent(jProgressBar2, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(220, Short.MAX_VALUE))
        );
    }// </editor-fold>

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

        try {
            jProgressBarCar.setMinimum(0);
            jProgressBarCar.setMaximum(100);
            jProgressBarCar.setVisible(true);
            jProgressBarCar.setValue(0);
            ObjectInputStream in = new
ObjectInputStream(Files.newInputStream(Paths.get("Data\\data.txt")));
            Sistema miModelo = (Sistema) in.readObject();
            modelo = miModelo;
            if (miModelo.sistemaEstaVacio()) {
                JOptionPane.showMessageDialog(this, "No hay nada guardado", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);

            } else {
                jProgressBarCar.setValue(50);
                this.menu.setModelo(miModelo);
                Menu menu = new Menu(miModelo);
                this.setMenu(menu);
                jProgressBarCar.setValue(100);
                cargarDatos = true;
            }

        } catch (EOFException exEOF) {
            JOptionPane.showMessageDialog(this, "No hay nada guardado", "Mensaje",
JOptionPane.INFORMATION_MESSAGE);
        } catch (IOException ex) {
            Logger.getLogger(inicio.class.getName()).log(Level.SEVERE, null, ex);
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(inicio.class.getName()).log(Level.SEVERE, null, ex);
        }

    }
```

```java
private void btnContActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if (!cargarDatos||modelo.sistemaEstaVacio()) {
        modelo.vaciarListas();
        registroTematica v = new registroTematica(modelo);
        menu.agregarPanel(v);
    }

}

private void btnResetActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Object[] opciones = {"Resetar", "Cancelar"};
    String mensaje = "Si resetea el sistema se borraran todos los datos ";
    int opcionSeleccionada = JOptionPane.showOptionDialog(menu,
        mensaje,
        "Confirmación",
        JOptionPane.YES_NO_OPTION,
        JOptionPane.QUESTION_MESSAGE,
        null,
        opciones, opciones[1]);
    if (opcionSeleccionada == 0) {
        modelo.resetearSistema();
    }
}

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


// Variables declaration - do not modify
private javax.swing.JButton btnCargar;
private javax.swing.JButton btnCont;
private javax.swing.JButton btnReset;
private javax.swing.JLabel jLabel2;
private javax.swing.JProgressBar jProgressBar2;
private javax.swing.JProgressBar jProgressBarCar;
// End of variables declaration
}
```

```java
altaPostulante
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Interfaz;

import Dominio.Sistema;
import Exceptions.Exception_ParseNumero;
import Exceptions.Exception_StringVacio;
import java.awt.Color;
import javax.swing.JOptionPane;
import javax.swing.SwingUtilities;
import javax.swing.border.Border;
import javax.swing.BorderFactory;
import javax.swing.JTextField;
import javax.swing.UIManager;


public class altaPostulante extends javax.swing.JPanel {

    private Sistema modelo;


    public altaPostulante() {
        initComponents();
    }

    public altaPostulante(Sistema miModelo) {
        this.modelo = miModelo;
        initComponents();
        jLabelException.setVisible(false);
        jLabeExcep1.setVisible(false);
        jLabelExcep2.setVisible(false);
        agregarRbGroup();
    }

    public void txtVacio() {
        jtxtNombre.setText("");
        jtxtId.setText("");
        jtxtDir.setText("");
        jtxtTel.setText("");
        jtxtMail.setText("");
        jtxtLink.setText("");
    }

    /**
```

```java
 * 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() {

    buttonGroup1 = new javax.swing.ButtonGroup();
    jLabel3 = new javax.swing.JLabel();
    jtxtLink = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    jRbRemoto = new javax.swing.JRadioButton();
    jLabel5 = new javax.swing.JLabel();
    jRbMixto = new javax.swing.JRadioButton();
    jLabel6 = new javax.swing.JLabel();
    jRbPresencial = new javax.swing.JRadioButton();
    jLabel7 = new javax.swing.JLabel();
    jBCancelar = new javax.swing.JButton();
    jLabel8 = new javax.swing.JLabel();
    jBSiguient = new javax.swing.JToggleButton();
    jtxtNombre = new javax.swing.JTextField();
    jtxtId = new javax.swing.JTextField();
    jtxtDir = new javax.swing.JTextField();
    jLabel1 = new javax.swing.JLabel();
    jtxtTel = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jtxtMail = new javax.swing.JTextField();
    jLabelExcep2 = new javax.swing.JLabel();
    jLabeExcep1 = new javax.swing.JLabel();
    jLabelException = new javax.swing.JLabel();

    setPreferredSize(new java.awt.Dimension(850, 880));
    setLayout(null);

    jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel3.setText("Cédula:");
    add(jLabel3);
    jLabel3.setBounds(55, 98, 100, 20);

    jtxtLink.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jtxtLinkActionPerformed(evt);
        }
    });
```

```
});
add(jtxtLink);
jtxtLink.setBounds(208, 303, 510, 22);

jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel4.setText("Dirección:");
add(jLabel4);
jLabel4.setBounds(55, 150, 120, 20);

jRbRemoto.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jRbRemoto.setText("Remoto");
jRbRemoto.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRbRemotoActionPerformed(evt);
    }
});
add(jRbRemoto);
jRbRemoto.setBounds(207, 355, 90, 25);

jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel5.setText("Teléfono:");
add(jLabel5);
jLabel5.setBounds(55, 202, 80, 20);

jRbMixto.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jRbMixto.setText("Mixto");
add(jRbMixto);
jRbMixto.setBounds(446, 355, 110, 25);

jLabel6.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel6.setText("Mail:");
add(jLabel6);
jLabel6.setBounds(57, 254, 120, 20);

jRbPresencial.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jRbPresencial.setText("Presencial");
jRbPresencial.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRbPresencialActionPerformed(evt);
    }
});
add(jRbPresencial);
jRbPresencial.setBounds(323, 355, 110, 25);
```

```
jLabel7.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel7.setText("Linkedin:");
add(jLabel7);
jLabel7.setBounds(55, 306, 80, 20);

jBCancelar.setText("Cancelar");
jBCancelar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jBCancelarActionPerformed(evt);
    }
});
add(jBCancelar);
jBCancelar.setBounds(60, 450, 100, 23);

jLabel8.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel8.setText("Formato:");
add(jLabel8);
jLabel8.setBounds(55, 357, 90, 20);

jBSiguient.setText("Siguiente");
jBSiguient.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jBSiguientActionPerformed(evt);
    }
});
add(jBSiguient);
jBSiguient.setBounds(600, 450, 110, 23);

jtxtNombre.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jtxtNombreActionPerformed(evt);
    }
});
add(jtxtNombre);
jtxtNombre.setBounds(210, 50, 510, 22);

jtxtId.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jtxtIdActionPerformed(evt);
    }
});
add(jtxtId);
jtxtId.setBounds(208, 95, 510, 22);
```

```
jtxtDir.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jtxtDirActionPerformed(evt);
    }
});
add(jtxtDir);
jtxtDir.setBounds(207, 147, 510, 22);

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("Alta Postulante");
jLabel1.setMaximumSize(new java.awt.Dimension(100, 20));
jLabel1.setMinimumSize(new java.awt.Dimension(100, 20));
add(jLabel1);
jLabel1.setBounds(-1, 10, 850, 25);

jtxtTel.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jtxtTelActionPerformed(evt);
    }
});
add(jtxtTel);
jtxtTel.setBounds(208, 199, 510, 22);

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel2.setText("Nombre:");
add(jLabel2);
jLabel2.setBounds(55, 46, 90, 20);

jtxtMail.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jtxtMailActionPerformed(evt);
    }
});
add(jtxtMail);
jtxtMail.setBounds(208, 251, 510, 22);

jLabelExcep2.setFont(new java.awt.Font("Segoe UI", 0, 10)); // NOI18N
jLabelExcep2.setText("blank");
add(jLabelExcep2);
jLabelExcep2.setBounds(210, 220, 370, 16);

jLabeExcep1.setFont(new java.awt.Font("Segoe UI", 0, 10)); // NOI18N
jLabeExcep1.setText("blank");
```

```java
    add(jLabeExcep1);
    jLabeExcep1.setBounds(210, 120, 370, 14);

    jLabelException.setFont(new java.awt.Font("Segoe UI", 2, 10)); // NOI18N
    jLabelException.setText("jLabel4");
    add(jLabelException);
    jLabelException.setBounds(60, 390, 540, 14);
}// </editor-fold>

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

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

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

private void jBCancelarActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Object[] opciones = {"Ok", "Cancelar"};
    String mensaje = "Si cancela se borraran todos los datos ";
    int opcionSeleccionada = JOptionPane.showOptionDialog(this,
        mensaje,
        "Confirmación",
        JOptionPane.YES_NO_OPTION,
        JOptionPane.QUESTION_MESSAGE,
        null,
        opciones, opciones[1]);
    if (opcionSeleccionada == 0) {
        txtVacio();
        buttonGroup1.clearSelection();
    }


}

private void jBSiguientActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    jLabelException.setVisible(false);
    setBorderPainted(false);
```

```java
if (modelo.esCedulaValidaPos(jtxtId.getText())) {
    String formato = "";
    if (jRbRemoto.isSelected()) {
        formato = "Remoto";
    } else if (jRbPresencial.isSelected()) {
        formato = "Presencial";
    } else if (jRbMixto.isSelected()) {
        formato = "Mixto";
    }
    setDefaultBorder();
    try {
        modelo.registrarPostulante(jtxtNombre.getText(), jtxtId.getText(), jtxtDir.getText(),
jtxtTel.getText(), jtxtMail.getText(), jtxtLink.getText(), formato);
        altaPostulante2 p = new altaPostulante2(modelo);
        ((Menu) SwingUtilities.getWindowAncestor(this)).agregarPanel(p);
    } catch (Exception_StringVacio ex) {
        Border border = BorderFactory.createLineBorder(Color.RED, 2);
        defbroder(border);
        if (formato.equals("")) {
            setBorderPainted(true);
            setBor(border);
        }
        jLabelException.setVisible(true);
        jLabelException.setText("Complete las áreas indicadas");
    } catch (Exception_ParseNumero ex) {
        jLabeExcep1.setText("Debe Ingresar un número");
        jLabeExcep1.setVisible(true);
        jLabelExcep2.setText("Debe Ingresar un número");
        jLabelExcep2.setVisible(true);
    }

} else {
    JOptionPane.showMessageDialog(null, "La cédula que ingresó ya se encuentra en
el sistema, intente denuevo");
}
}

private void setBorderPainted(Boolean b) {
    jRbMixto.setBorderPainted(b);
    jRbPresencial.setBorderPainted(b);
    jRbRemoto.setBorderPainted(b);
}

private void setDefaultBorder() {
```

```
jtxtNombre.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.bord
er"));

jtxtDir.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));

jtxtTel.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));

jtxtId.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));

jtxtMail.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));

jtxtLink.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));

jRbRemoto.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("RadioButton.b
order"));

jRbMixto.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("RadioButton.bor
der"));

jRbPresencial.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("RadioButto
n.border"));
    }

    private void defbroder(Border border) {
        checkAndSetBorder(jtxtNombre, border);
        checkAndSetBorder(jtxtDir, border);
        checkAndSetBorder(jtxtId, border);
        checkAndSetBorder(jtxtTel, border);
        checkAndSetBorder(jtxtMail, border);
        checkAndSetBorder(jtxtLink, border);
    }

    private void agregarRbGroup() {
        buttonGroup1.add(jRbMixto);
        buttonGroup1.add(jRbPresencial);
        buttonGroup1.add(jRbRemoto);
    }

    private void setBor(Border border) {
        jRbMixto.setBorder(border);
        jRbPresencial.setBorder(border);
        jRbRemoto.setBorder(border);
    }
```

```java
private void checkAndSetBorder(JTextField textField, Border border) {
    if (textField.getText().equals("")) {
        textField.setBorder(border);
    }
}
private void jtxtNombreActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

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

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

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

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


// Variables declaration - do not modify
private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.JButton jBCancelar;
private javax.swing.JToggleButton jBSiguient;
private javax.swing.JLabel jLabeExcep1;
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 jLabelExcep2;
private javax.swing.JLabel jLabelException;
private javax.swing.JRadioButton jRbMixto;
private javax.swing.JRadioButton jRbPresencial;
```

```java
    private javax.swing.JRadioButton jRbRemoto;
    private javax.swing.JTextField jtxtDir;
    private javax.swing.JTextField jtxtId;
    private javax.swing.JTextField jtxtLink;
    private javax.swing.JTextField jtxtMail;
    private javax.swing.JTextField jtxtNombre;
    private javax.swing.JTextField jtxtTel;
    // End of variables declaration
}
```

altaPostulante2

```java
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Interfaz;

import Dominio.Postulante;
import Dominio.Sistema;
import java.awt.Color;

import java.util.ArrayList;


import javax.swing.DefaultListModel;
import javax.swing.JOptionPane;
import javax.swing.SwingUtilities;
import javax.swing.border.Border;
import javax.swing.BorderFactory;


public class altaPostulante2 extends javax.swing.JPanel {

    private Sistema modelo;
    DefaultListModel<Object> Lmodelo = new DefaultListModel<>();
    private ArrayList<String> arrExp;


    public altaPostulante2() {
        initComponents();
    }

    public altaPostulante2(Sistema sis) {
        this.modelo = sis;
        arrExp = new ArrayList();
        initComponents();
        jLabelException.setVisible(false);

        for (int i = 0; i < modelo.getListaTematicas().size(); i++) {
            JCbTema.addItem(modelo.getListaTematicas().get(i));
        }

    }

    /**
     * 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.
```

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

    JTbRegistrar = new javax.swing.JToggleButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    JLExperiencia = new javax.swing.JList<>();
    JSpNivel = new javax.swing.JSpinner();
    JTbAgregar = new javax.swing.JToggleButton();
    JBEliminar = new javax.swing.JButton();
    JCbTema = new javax.swing.JComboBox<>();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jSeparator1 = new javax.swing.JSeparator();
    jLabel3 = new javax.swing.JLabel();
    JTbCancelar = new javax.swing.JToggleButton();
    jLabelException = new javax.swing.JLabel();

    setMinimumSize(new java.awt.Dimension(850, 880));
    setPreferredSize(new java.awt.Dimension(850, 880));

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

    jScrollPane1.setViewportView(JLExperiencia);

    JSpNivel.setModel(new javax.swing.SpinnerNumberModel(0, 0, 10, 1));

    JTbAgregar.setText("Agregar");
    JTbAgregar.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            JTbAgregarActionPerformed(evt);
        }
    });

    JBEliminar.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    JBEliminar.setText("Eliminar");
    JBEliminar.addActionListener(new java.awt.event.ActionListener() {
```

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

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

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

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel2.setText("Nivel:");

jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel3.setText("Experiencia");

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

jLabelException.setFont(new java.awt.Font("Segoe UI", 2, 10)); // NOI18N
jLabelException.setText("jLabel4");

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jSeparator1, javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(layout.createSequentialGroup()
          .addGap(38, 38, 38)

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

```
                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
84, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
84, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(JSpNivel,
javax.swing.GroupLayout.PREFERRED_SIZE, 180,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(JTbAgregar,
javax.swing.GroupLayout.PREFERRED_SIZE, 180,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addComponent(JCbTema, javax.swing.GroupLayout.PREFERRED_SIZE,
621, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(0, 0, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addComponent(jLabelException, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addGap(38, 38, 38)
                .addComponent(JBEliminar, javax.swing.GroupLayout.PREFERRED_SIZE,
107, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
604, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addGap(38, 38, 38)
                .addComponent(JTbCancelar, javax.swing.GroupLayout.PREFERRED_SIZE,
107, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
                .addComponent(JTbRegistrar,
javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(82, 82, 82)))
            .addContainerGap())
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(65, 65, 65)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel1)
                .addComponent(JCbTema, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(56, 56, 56)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(JSpNivel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(JTbAgregar))
            .addGap(57, 57, 57)
            .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(12, 12, 12)
            .addComponent(jLabel3)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(JBEliminar)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
133, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabelException, javax.swing.GroupLayout.PREFERRED_SIZE,
14, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(JTbCancelar)
                .addComponent(JTbRegistrar))
            .addContainerGap(418, Short.MAX_VALUE))
    );
    }// </editor-fold>
```

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

    jLabelException.setVisible(false);
    if (!Lmodelo.isEmpty()) {
        Postulante pos =
modelo.getListaPostulantes().get(modelo.getListaPostulantes().size() - 1);
        for (int i = 0; i < arrExp.size(); i++) {
            int nivel = Integer.parseInt(arrExp.get(i).split("-")[1]);
            String nombre = arrExp.get(i).split("-")[0];
            modelo.registrarExperiencia(pos, nivel, nombre);
        }
        altaPostulante p = new altaPostulante(modelo);
        ((Menu) SwingUtilities.getWindowAncestor(this)).agregarPanel(p);
    } else {
        Border border = BorderFactory.createLineBorder(Color.RED, 2);
        JLExperiencia.setBorder(border);
        jLabelException.setVisible(true);
        jLabelException.setText("Complete las áreas indicadas");
    }

}

private void JTbAgregarActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    boolean flag = false;
    String aux = JCbTema.getSelectedItem().toString();
    JLExperiencia.setModel(Lmodelo);
    for(int i = 0;!flag && i<Lmodelo.getSize();i++){
        if(Lmodelo.get(i).toString().contains(aux)){
            flag = true;
        }
    }
    if (flag) {
        JOptionPane.showMessageDialog(null, "Ya ha ingresado una Temática con ese
nombre");
    } else {
        Lmodelo.addElement(JCbTema.getSelectedItem().toString() + " (" +
JSpNivel.getValue() + ")");
        arrExp.add(JCbTema.getSelectedItem().toString() + "-" + JSpNivel.getValue());

    }
}
```

60

```java
private void JBEliminarActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try {
        Lmodelo.remove(JLExperiencia.getSelectedIndex());
        for (int i = 0; i < arrExp.size(); i++) {
            if (arrExp.get(i).split("-")[0].equals(JLExperiencia.getSelectedValue().toString())) {
                arrExp.remove(i);
                break;
            }
        }
    } catch (Exception e) {
    }
}

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

private void JTbCancelarActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    modelo.getListaPostulantes().remove(modelo.getListaPostulantes().size() - 1);
    altaPostulante p = new altaPostulante(modelo);
    ((Menu) SwingUtilities.getWindowAncestor(this)).agregarPanel(p);
}


// Variables declaration - do not modify
private javax.swing.JButton JBEliminar;
private javax.swing.JComboBox<Object> JCbTema;
private javax.swing.JList<Object> JLExperiencia;
private javax.swing.JSpinner JSpNivel;
private javax.swing.JToggleButton JTbAgregar;
private javax.swing.JToggleButton JTbCancelar;
private javax.swing.JToggleButton JTbRegistrar;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabelException;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JSeparator jSeparator1;
// End of variables declaration

}
```

```
bajaPostulante
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Interfaz;

import Dominio.Postulante;
import Dominio.Sistema;
import java.beans.PropertyChangeEvent;
import java.beans.PropertyChangeListener;
import javax.swing.DefaultListModel;


public class bajaPostulante extends javax.swing.JPanel {

    private Sistema modelo;
    DefaultListModel<Postulante> Lmodelo = new DefaultListModel<>();

    public bajaPostulante(Sistema modelo) {
        this.modelo = modelo;
        initComponents();
        jLBajaPostulante.setModel(Lmodelo);
        for(int i = 0; i < modelo.getListaPostulantes().size();i++){
            Lmodelo.addElement(modelo.getListaPostulantes().get(i));
        }
    }

    public bajaPostulante() {
        initComponents();
    }

    /**
     * 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() {

        jTextField1 = new javax.swing.JTextField();
        jLabel2 = new javax.swing.JLabel();
        jButton2 = new javax.swing.JButton();
        jScrollPane1 = new javax.swing.JScrollPane();
        jLBajaPostulante = new javax.swing.JList<>();
```

```
jButton1 = new javax.swing.JButton();
jLabel1 = new javax.swing.JLabel();

jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel2.setText("Buscar Postulante:");

jButton2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jButton2.setText("Buscar");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jScrollPane1.setViewportView(jLBajaPostulante);

jButton1.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jButton1.setText("Dar de Baja");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("      Dar de Baja Postulante");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
this.setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(layout.createSequentialGroup()
        .addGap(103, 103, 103)

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

```
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 124,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
335, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(32, 32, 32)
                .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE,
141, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(jButton1, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE,
644, Short.MAX_VALUE))
            .addContainerGap(103, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
          layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addGroup(layout.createSequentialGroup()
            .addGap(41, 41, 41)
            .addComponent(jLabel1)
            .addGap(47, 47, 47)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton2))
            .addGap(18, 18, 18)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 211,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(28, 28, 28)
            .addComponent(jButton1)
            .addContainerGap(456, Short.MAX_VALUE))
        );
    }// </editor-fold>

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        Postulante post = (Postulante)jLBajaPostulante.getSelectedValue();
```

```java
        modelo.bajaPostulante(post);
        Lmodelo.remove(jLBajaPostulante.getSelectedIndex());
    }

    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        for(int i = 0;i <Lmodelo.size();i++){
            if(Lmodelo.get(i).toString().contains(jTextField1.getText())){
                jLBajaPostulante.setSelectedValue(Lmodelo.get(i), true);
            }
        }
    }


    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JList<Postulante> jLBajaPostulante;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTextField jTextField1;
    // End of variables declaration

}
```

historialPostulante
package Interfaz;
//Autores: Andres Dalla Rizza, Rodrigo Soca
import Dominio.Entrevista;
import Dominio.Experiencia;
import Dominio.Postulante;
import Dominio.Sistema;
import java.awt.Desktop;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.ArrayList;
import java.util.Collections;
import javax.swing.DefaultListModel;
import javax.swing.JLabel;
import javax.swing.event.ListSelectionEvent;
import javax.swing.event.ListSelectionListener;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.TableColumnModel;

public class historialPostulante extends javax.swing.JPanel {

    private Sistema modelo;
    DefaultListModel<Postulante> Lmodelo = new DefaultListModel<>();

    public historialPostulante(Sistema modelo) {

```java
    this.modelo = modelo;
    initComponents();
    configurarColumnasTabla();
    inicializarLabels();
    inicializarListaPostulantes();

    jListPostulantes.getSelectionModel().addListSelectionListener(new
ListSelectionListener() {
        @Override
        public void valueChanged(ListSelectionEvent e) {
           if (!e.getValueIsAdjusting()) {
               cargarDatosPosAlClick();
               cargarTablaAlClick();
           }
        }
    });
    jLabelLin.repaint();

  }

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

  public DefaultListModel<Postulante> sortLmodelo(DefaultListModel<Postulante>
Lmodelo) {
     ArrayList<Postulante> listaPost = modelo.getListaPostulantes();
     Collections.sort(listaPost);
     for (Postulante postulante : listaPost) {
        Lmodelo.addElement(postulante);
     }

     return Lmodelo;
  }

  private void inicializarLabels() {
     jLabelNom.setVisible(false);
     jLabelCed.setVisible(false);
     jLabelDir.setVisible(false);
     jLabelTel.setVisible(false);
     jLabelMai.setVisible(false);
```

```java
        jLabelLin.setVisible(false);
        jLabelFor.setVisible(false);
    }

    private void inicializarListaPostulantes() {
        sortLmodelo(Lmodelo);
        jListPostulantes.setModel(Lmodelo);
    }

    private void cargarDatosPosAlClick() {
        jLabelNom.setText(jListPostulantes.getSelectedValue().getNombre());
        jLabelNom.setVisible(true);
        jLabelCed.setText(String.valueOf(jListPostulantes.getSelectedValue().getId()));
        jLabelCed.setVisible(true);
        jLabelDir.setText(jListPostulantes.getSelectedValue().getDireccion());
        jLabelDir.setVisible(true);
        jLabelTel.setText(String.valueOf(jListPostulantes.getSelectedValue().getTelefono()));
        jLabelTel.setVisible(true);
        jLabelMai.setText(jListPostulantes.getSelectedValue().getMail());
        jLabelMai.setVisible(true);
        jLabelLin.setText("<html><font color=blue><u><b>" +
jListPostulantes.getSelectedValue().getLink() + "</b></u></font></html>");
        jLabelLin.setVisible(true);
        jLabelFor.setText(jListPostulantes.getSelectedValue().getFormato());
        jLabelFor.setVisible(true);

        DefaultListModel<Object> Lmodelo2 = new DefaultListModel<>();
        jListExperiencia.setModel(Lmodelo2);
        for (Experiencia expe : jListPostulantes.getSelectedValue().getListaExperiencia()) {
            Lmodelo2.addElement(expe);
        }
    }

    private void configurarColumnasTabla() {
        TableColumnModel columnModel = jTableCont.getColumnModel();
        columnModel.getColumn(0).setPreferredWidth(40);
        columnModel.getColumn(1).setPreferredWidth(160);
        columnModel.getColumn(2).setPreferredWidth(60);
        columnModel.getColumn(3).setPreferredWidth(600);
    }

    private void cargarTablaAlClick() {
        DefaultTableModel modeloTabla = (DefaultTableModel) jTableCont.getModel();
        modeloTabla.setRowCount(0); // Limpiar el modelo de la tabla
```

```java
        ArrayList<Entrevista> listaEntrevistaPos =
jListPostulantes.getSelectedValue().getListaEntrevistas();
        int largoListaEntrevistaPos = listaEntrevistaPos.size();
        Collections.sort(listaEntrevistaPos);

        for (int i = 0; i < largoListaEntrevistaPos; i++) {
            Entrevista entre = listaEntrevistaPos.get(i);
            Object datos[] = new Object[4];
            datos[0] = entre.getId();
            datos[1] = entre.getEvaluador();
            datos[2] = entre.getPuntaje();
            datos[3] = entre.getComentarios();

            modeloTabla.addRow(datos);
        }
    }

    /**
     * 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() {

        jLabel1 = new javax.swing.JLabel();
        jLabel11 = new javax.swing.JLabel();
        jTextFieldBuscar = new javax.swing.JTextField();
        jButtonBuscar = new javax.swing.JButton();
        jButtonResetear = new javax.swing.JButton();
        jScrollPane3 = new javax.swing.JScrollPane();
        jTableCont = new javax.swing.JTable();
        jLabel2 = new javax.swing.JLabel();
        jButtonSalir = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
```

```java
jListExperiencia = new javax.swing.JList<>();
jSeparator1 = new javax.swing.JSeparator();
jLabel10 = new javax.swing.JLabel();
jScrollPane2 = new javax.swing.JScrollPane();
jListPostulantes = new javax.swing.JList<>();
jLabelNombre = new javax.swing.JLabel();
jLabelDireccion = new javax.swing.JLabel();
jLabelCedula = new javax.swing.JLabel();
jLabelTelefono = new javax.swing.JLabel();
jLabelMail = new javax.swing.JLabel();
jLabelLinkedin = new javax.swing.JLabel();
jLabelFormato = new javax.swing.JLabel();
jLabelNom = new javax.swing.JLabel();
jLabelCed = new javax.swing.JLabel();
jLabelDir = new javax.swing.JLabel();
jLabelTel = new javax.swing.JLabel();
jLabelMai = new javax.swing.JLabel();
jLabelLin = new javax.swing.JLabel();
jLabelFor = new javax.swing.JLabel();

setPreferredSize(new java.awt.Dimension(850, 880));

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 24)); // NOI18N
jLabel1.setText("Historial Postulante");

jLabel11.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel11.setText("Buscar:");

jButtonBuscar.setText("Buscar");
jButtonBuscar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButtonBuscarActionPerformed(evt);
    }
});

jButtonResetear.setText("Resetear");
jButtonResetear.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButtonResetearActionPerformed(evt);
    }
});

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

```
        },
        new String [] {
            "Nro", "Evaluador", "Puntaje", "Comentarios"
        }
    ) {
        Class[] types = new Class [] {
            java.lang.Integer.class, java.lang.String.class, java.lang.Integer.class,
java.lang.String.class
        };
        boolean[] canEdit = new boolean [] {
            false, false, false, false
        };

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

        public boolean isCellEditable(int rowIndex, int columnIndex) {
            return canEdit [columnIndex];
        }
    });
    jTableCont.setAutoResizeMode(javax.swing.JTable.AUTO_RESIZE_OFF);
    jScrollPane3.setViewportView(jTableCont);

    jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel2.setText("Nombre:");

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

    jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel3.setText("Cedula:");

    jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel4.setText("Dirección:");

    jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel5.setText("Teléfono:");
```

```java
jLabel6.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel6.setText("Mail:");

jLabel7.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel7.setText("Linkedin:");

jLabel8.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel8.setText("Formato:");

jLabel9.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel9.setText("Experiencia:");

jScrollPane1.setViewportView(jListExperiencia);

jLabel10.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel10.setText("Postulantes:");

jListPostulantes.addMouseListener(new java.awt.event.MouseAdapter() {
   public void mouseClicked(java.awt.event.MouseEvent evt) {
      jListPostulantesMouseClicked(evt);
   }
});
jScrollPane2.setViewportView(jListPostulantes);

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

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

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

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

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

jLabelLin.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabelLin.setText("blank");
jLabelLin.addMouseListener(new java.awt.event.MouseAdapter() {
   public void mouseClicked(java.awt.event.MouseEvent evt) {
```

```java
        jLabelLinMouseClicked(evt);
    }
});

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

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
this.setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(37, 37, 37)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
306, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED_SIZE, 102,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(37, 37, 37)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel2)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 53,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel7, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, 53,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED_SIZE, 78,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(286, 286, 286)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabelCedula,
javax.swing.GroupLayout.PREFERRED_SIZE, 191,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabelTelefono,
javax.swing.GroupLayout.PREFERRED_SIZE, 191,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
false)
            .addComponent(jLabelMai, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabelLin, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabelFor, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE,
347, Short.MAX_VALUE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabelFormato,
javax.swing.GroupLayout.PREFERRED_SIZE, 191,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabelLinkedin,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 191,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addComponent(jLabelMail,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 191,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
false)
            .addComponent(jLabelCed, javax.swing.GroupLayout.DEFAULT_SIZE,
347, Short.MAX_VALUE)
            .addComponent(jLabelDir, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
                .addComponent(jLabelTel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jLabelDireccion,
javax.swing.GroupLayout.PREFERRED_SIZE, 191,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addComponent(jLabelNom, javax.swing.GroupLayout.PREFERRED_SIZE,
349, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(0, 0, Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()
          .addComponent(jSeparator1)
          .addGap(34, 34, 34))
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
              .addGap(574, 574, 574)
              .addComponent(jLabelNombre,
javax.swing.GroupLayout.PREFERRED_SIZE, 191,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(layout.createSequentialGroup()
              .addGap(293, 293, 293)
              .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 206,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(layout.createSequentialGroup()
              .addGap(50, 50, 50)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
false)
                .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
                  .addComponent(jLabel11,
javax.swing.GroupLayout.PREFERRED_SIZE, 69,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                  .addComponent(jTextFieldBuscar,
javax.swing.GroupLayout.PREFERRED_SIZE, 198,
javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addGap(107, 107, 107)
                  .addComponent(jButtonBuscar,
javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jButtonResetear,
javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addComponent(jScrollPane3,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.PREFERRED_SIZE, 759,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jButtonSalir,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED_SIZE))))
                .addContainerGap())
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(6, 6, 6)
                .addComponent(jLabel1)
                .addGap(18, 18, 18)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel10, javax.swing.GroupLayout.Alignment.TRAILING)
                            .addComponent(jLabelNombre))
                        .addGap(12, 12, 12)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 323,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGroup(layout.createSequentialGroup()
                                .addComponent(jLabelCedula)
                                .addGap(38, 38, 38)
                                .addComponent(jLabelDireccion)
                                .addGap(40, 40, 40)
                                .addComponent(jLabelTelefono)
                                .addGap(40, 40, 40)
                                .addComponent(jLabelMail)
                                .addGap(40, 40, 40)
```

```
                    .addComponent(jLabelLinkedin)
                    .addGap(43, 43, 43)
                    .addComponent(jLabelFormato))))
            .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(jLabelNom))
            .addGap(14, 14, 14)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3)
                .addComponent(jLabelCed))
            .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel4)
                .addComponent(jLabelDir))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addGroup(layout.createSequentialGroup()
                  .addGap(24, 24, 24)
                  .addComponent(jLabel5))
                .addGroup(layout.createSequentialGroup()
                  .addGap(26, 26, 26)
                  .addComponent(jLabelTel,
javax.swing.GroupLayout.PREFERRED_SIZE, 0, Short.MAX_VALUE)))
            .addGap(24, 24, 24)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel6)
                .addComponent(jLabelMai))
            .addGap(24, 24, 24)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel7)
                .addComponent(jLabelLin))
            .addGap(24, 24, 24)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel8)
                .addComponent(jLabelFor))
            .addGap(24, 24, 24)
```

```
          .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                  .addComponent(jLabel9)
                  .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 88,
javax.swing.GroupLayout.PREFERRED_SIZE))))
          .addGap(48, 48, 48)
          .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
          .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                  .addComponent(jLabel11)
                  .addComponent(jTextFieldBuscar,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                  .addComponent(jButtonBuscar)
                  .addComponent(jButtonResetear)))
          .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
          .addComponent(jScrollPane3, javax.swing.GroupLayout.DEFAULT_SIZE, 207,
Short.MAX_VALUE)
          .addGap(18, 18, 18)
          .addComponent(jButtonSalir)
          .addGap(93, 93, 93))
      );
   }// </editor-fold>

   private void jButtonBuscarActionPerformed(java.awt.event.ActionEvent evt) {
      resetearColor();
      String texto = jTextFieldBuscar.getText();
      for (int i = 0; i < jTableCont.getRowCount(); i++) {
         String aux = (String) jTableCont.getValueAt(i, 3);
         if (aux.contains(texto)) {
            if (!(aux.indexOf(texto) + texto.length() == aux.length())) {
               int termina = aux.indexOf(texto) + texto.length();
               jTableCont.setValueAt("<html><font color=black>" + aux.substring(0,
aux.indexOf(texto)) + "<html><font color=red>" + aux.substring(aux.indexOf(texto), termina)
+ "</font> <font color=black>" + aux.substring(termina, aux.length()) + "</font></html>", i, 3);
            } else {
```

```java
            jTableCont.setValueAt("<html><font color=black>" + aux.substring(0,
aux.indexOf(texto)) + "<html><font color=red>" + aux.substring(aux.indexOf(texto),
aux.length()) + "</font></html>", i, 3);

        }
    }

  }
}
private void resetearColor() {
    for (int i = 0; i < jTableCont.getRowCount(); i++) {
        String cont = (String) jTableCont.getValueAt(i, 3);
        cont = cont.replaceAll("<html><font color=red>", "").replaceAll("</font></html>", "");
        jTableCont.setValueAt(cont, i, 3);
    }
}



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

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

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

private void jLabelLinMouseClicked(java.awt.event.MouseEvent evt) {
    //crea el hipervinculo para desplegar la pagina web
    URI miUri;
    try {
        miUri = new URI(jLabelLin.getText());
        try {
            if (Desktop.isDesktopSupported()) {
                Desktop desk = Desktop.getDesktop();
                if (desk.isSupported(Desktop.Action.BROWSE)) {
                    desk.browse(miUri);
                }
            }
        } catch (Exception e) {
```

```
        }
    } catch (URISyntaxException ex) {

    }
}


// Variables declaration - do not modify
private javax.swing.JButton jButtonBuscar;
private javax.swing.JButton jButtonResetear;
private javax.swing.JButton jButtonSalir;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JLabel jLabelCed;
private javax.swing.JLabel jLabelCedula;
private javax.swing.JLabel jLabelDir;
private javax.swing.JLabel jLabelDireccion;
private javax.swing.JLabel jLabelFor;
private javax.swing.JLabel jLabelFormato;
private javax.swing.JLabel jLabelLin;
private javax.swing.JLabel jLabelLinkedin;
private javax.swing.JLabel jLabelMai;
private javax.swing.JLabel jLabelMail;
private javax.swing.JLabel jLabelNom;
private javax.swing.JLabel jLabelNombre;
private javax.swing.JLabel jLabelTel;
private javax.swing.JLabel jLabelTelefono;
private javax.swing.JList<Object> jListExperiencia;
private javax.swing.JList<Postulante> jListPostulantes;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JScrollPane jScrollPane3;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JTable jTableCont;
```

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

}

registroPuesto
package Interfaz;
//Autores: Andres Dalla Rizza, Rodrigo Soca
import Dominio.Sistema;
import Dominio.Tematica;
import Exceptions.Exception_DuplicateName;
import Exceptions.Exception_StringVacio;
import java.awt.Color;
import javax.swing.BorderFactory;
import javax.swing.DefaultListModel;
import javax.swing.JOptionPane;
import javax.swing.UIManager;
import javax.swing.border.Border;

public class registroPuesto extends javax.swing.JPanel {

    private Sistema modelo;
    DefaultListModel<Tematica> Lmodelo = new DefaultListModel<>();


    public registroPuesto() {
        initComponents();
    }

    public registroPuesto(Sistema modelo) {
        this.modelo = modelo;
        initComponents();
        buttonGroup2.add(jRbMixto);
        buttonGroup2.add(jRbPresencial);
        buttonGroup2.add(jRbRemoto);
        buttonGroup2.clearSelection();
        jLabelException.setVisible(false);
        for (int i = 0; i < modelo.getListaTematicas().size(); i++) {
            jCbTematicas.addItem(modelo.getListaTematicas().get(i));
        }
    }


    @SuppressWarnings("unchecked")
```

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

    buttonGroup1 = new javax.swing.ButtonGroup();
    buttonGroup2 = new javax.swing.ButtonGroup();
    buttonGroup3 = new javax.swing.ButtonGroup();
    jLabel1 = new javax.swing.JLabel();
    jRbRemoto = new javax.swing.JRadioButton();
    jRbMixto = new javax.swing.JRadioButton();
    jRbPresencial = new javax.swing.JRadioButton();
    jLabel8 = new javax.swing.JLabel();
    jLabel9 = new javax.swing.JLabel();
    jCbTematicas = new javax.swing.JComboBox<>();
    jScrollPane1 = new javax.swing.JScrollPane();
    jLTematica = new javax.swing.JList<>();
    jBAgregar = new javax.swing.JButton();
    jBEliminar = new javax.swing.JButton();
    jTfPuesto = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jBRegistrar = new javax.swing.JButton();
    jBCancelar = new javax.swing.JButton();
    jLabelException = new javax.swing.JLabel();

    setPreferredSize(new java.awt.Dimension(850, 880));
    setLayout(null);

    jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel1.setText("Puesto:");
    add(jLabel1);
    jLabel1.setBounds(50, 100, 90, 20);

    jRbRemoto.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jRbRemoto.setText("Remoto");
    jRbRemoto.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jRbRemotoActionPerformed(evt);
        }
    });
    add(jRbRemoto);
    jRbRemoto.setBounds(230, 160, 120, 25);

    jRbMixto.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jRbMixto.setText("Mixto");
    add(jRbMixto);
```

```java
jRbMixto.setBounds(680, 160, 110, 25);

jRbPresencial.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jRbPresencial.setText("Presencial");
jRbPresencial.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRbPresencialActionPerformed(evt);
    }
});
add(jRbPresencial);
jRbPresencial.setBounds(450, 160, 130, 25);

jLabel8.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel8.setText("Formato:");
add(jLabel8);
jLabel8.setBounds(50, 160, 90, 20);

jLabel9.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel9.setText("Temas Requeridos");
add(jLabel9);
jLabel9.setBounds(50, 220, 150, 20);

add(jCbTematicas);
jCbTematicas.setBounds(220, 220, 440, 22);

jScrollPane1.setViewportView(jLTematica);

add(jScrollPane1);
jScrollPane1.setBounds(220, 320, 570, 94);

jBAgregar.setText("Agregar");
jBAgregar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jBAgregarActionPerformed(evt);
    }
});
add(jBAgregar);
jBAgregar.setBounds(660, 220, 120, 23);

jBEliminar.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jBEliminar.setText("Eliminar");
jBEliminar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jBEliminarActionPerformed(evt);
```

```
        }
    });
    add(jBEliminar);
    jBEliminar.setBounds(50, 320, 140, 27);

    jTfPuesto.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTfPuestoActionPerformed(evt);
        }
    });
    add(jTfPuesto);
    jTfPuesto.setBounds(220, 100, 570, 22);

    jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
    jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    jLabel2.setText("Registro puesto");
    jLabel2.setMaximumSize(new java.awt.Dimension(100, 20));
    jLabel2.setMinimumSize(new java.awt.Dimension(100, 20));
    add(jLabel2);
    jLabel2.setBounds(0, 30, 850, 25);

    jBRegistrar.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jBRegistrar.setText("Registrar");
    jBRegistrar.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jBRegistrarActionPerformed(evt);
        }
    });
    add(jBRegistrar);
    jBRegistrar.setBounds(620, 500, 160, 27);

    jBCancelar.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jBCancelar.setText("Cancelar");
    jBCancelar.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jBCancelarActionPerformed(evt);
        }
    });
    add(jBCancelar);
    jBCancelar.setBounds(50, 490, 140, 27);

    jLabelException.setFont(new java.awt.Font("Segoe UI", 2, 10)); // NOI18N
    jLabelException.setText("jLabel4");
    add(jLabelException);
```

```java
        jLabelException.setBounds(220, 430, 370, 14);
    }// </editor-fold>

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

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

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

    private void jBAgregarActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        if (!Lmodelo.contains(jCbTematicas.getSelectedItem())) {
            jLTematica.setModel(Lmodelo);
            Lmodelo.addElement((Tematica) jCbTematicas.getSelectedItem());
        }

    }

    private void jBRegistrarActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        borderPainted(false);

jTfPuesto.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border
"));

jLTematica.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.borde
r"));
        Border border = BorderFactory.createLineBorder(Color.RED, 2);
        String formato = obtenerStringRB();
        try {
            if (!Lmodelo.isEmpty()) {
            modelo.registrarPuesto(jTfPuesto.getText(), formato);
                for (int i = 0; i < Lmodelo.getSize(); i++) {
                    modelo.getListaPuestos().get(modelo.getListaPuestos().size() -
1).getListaRequerimientos().add(Lmodelo.get(i));
                }
                jTfPuesto.setText("");
                jRbRemoto.setSelected(false);
```

```
            jRbPresencial.setSelected(false);
            jRbMixto.setSelected(false);
            Lmodelo.clear();
        }else{
            jLTematica.setBorder(border);
        }

    } catch (Exception_StringVacio ex) {
        if (jTfPuesto.getText().equals("")) {
            jTfPuesto.setBorder(border);
        }
        if (formato.equals("")) {
            borderPainted(true);
            jRbMixto.setBorder(border);
            jRbPresencial.setBorder(border);
            jRbRemoto.setBorder(border);
        }
        jLabelException.setVisible(true);
        jLabelException.setText("Complete las áreas indicadas");

    } catch (Exception_DuplicateName ex) {
        JOptionPane.showMessageDialog(null, "El puesto que ingreso ya se encuentra
registrado");
    }


}

private void borderPainted(boolean b) {
    jRbMixto.setBorderPainted(b);
    jRbPresencial.setBorderPainted(b);
    jRbRemoto.setBorderPainted(b);
    jLabelException.setVisible(b);
}
private String obtenerStringRB(){
    String formato = "";
    if (jRbRemoto.isSelected()) {
        formato = "Remoto";
    } else if (jRbPresencial.isSelected()) {
        formato = "Presencial";
    } else if (jRbMixto.isSelected()) {
        formato = "Mixto";
    }
    return formato;
```

```java
    }

    private void jBCancelarActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        jTfPuesto.setText("");
        jRbRemoto.setSelected(false);
        jRbPresencial.setSelected(false);
        jRbMixto.setSelected(false);
        Lmodelo.clear();
    }

    private void jBEliminarActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        Lmodelo.remove(jCbTematicas.getSelectedIndex());
    }



    // Variables declaration - do not modify
    private javax.swing.ButtonGroup buttonGroup1;
    private javax.swing.ButtonGroup buttonGroup2;
    private javax.swing.ButtonGroup buttonGroup3;
    private javax.swing.JButton jBAgregar;
    private javax.swing.JButton jBCancelar;
    private javax.swing.JButton jBEliminar;
    private javax.swing.JButton jBRegistrar;
    private javax.swing.JComboBox<Tematica> jCbTematicas;
    private javax.swing.JList<Tematica> jLTematica;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JLabel jLabelException;
    private javax.swing.JRadioButton jRbMixto;
    private javax.swing.JRadioButton jRbPresencial;
    private javax.swing.JRadioButton jRbRemoto;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTextField jTfPuesto;
    // End of variables declaration

}

consultaPuesto
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Interfaz;
```

```java
import Dominio.Postulante;
import Dominio.Puesto;
import Dominio.Sistema;
import java.util.ArrayList;
import javax.swing.DefaultListModel;
import javax.swing.JOptionPane;


public class consultaPuesto extends javax.swing.JPanel {

    private Sistema modelo;
    private ArrayList<Postulante> listaPos = new ArrayList();

    DefaultListModel<Puesto> Lmodelo = new DefaultListModel<>();
    DefaultListModel<Postulante> Lmodelo2 = new DefaultListModel<>();


    public consultaPuesto() {
        initComponents();
    }

    public consultaPuesto(Sistema modelo) {
        initComponents();
        this.modelo = modelo;
        jListPuestos.setModel(Lmodelo);
        jListPostulantes.setModel(Lmodelo2);
        for (int i = 0; i < modelo.getListaPuestos().size(); i++) {
            Lmodelo.addElement(modelo.getListaPuestos().get(i));
        }

    }

    /**
     * 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() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
```

```
jScrollPane1 = new javax.swing.JScrollPane();
jListPuestos = new javax.swing.JList<>();
jLabel3 = new javax.swing.JLabel();
jSpinnerNivel = new javax.swing.JSpinner();
jButtonConsultar = new javax.swing.JButton();
jSeparator1 = new javax.swing.JSeparator();
jLabel4 = new javax.swing.JLabel();
jScrollPane2 = new javax.swing.JScrollPane();
jListPostulantes = new javax.swing.JList<>();
jButtonCancelar = new javax.swing.JButton();
jButtonExportar = new javax.swing.JButton();

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("Consulta para Puesto");

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel2.setText("Puestos:");

jScrollPane1.setViewportView(jListPuestos);

jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel3.setText("Nivel:");

jSpinnerNivel.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jSpinnerNivel.setModel(new javax.swing.SpinnerNumberModel(0, 0, 10, 1));

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

jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel4.setText("Postulantes:");

jScrollPane2.setViewportView(jListPostulantes);

jButtonCancelar.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jButtonCancelar.setText("Cancelar");
jButtonCancelar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            jButtonCancelarActionPerformed(evt);
        }
    });

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

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
    this.setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap(45, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
52, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 766,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
104, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(jSpinnerNivel,
javax.swing.GroupLayout.PREFERRED_SIZE, 200,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

```
                    .addComponent(jButtonConsultar,
javax.swing.GroupLayout.PREFERRED_SIZE, 200,
javax.swing.GroupLayout.PREFERRED_SIZE))))
            .addGroup(layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 773,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(layout.createSequentialGroup()
                        .addComponent(jButtonCancelar,
javax.swing.GroupLayout.PREFERRED_SIZE, 113,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(546, 546, 546)
                        .addComponent(jButtonExportar,
javax.swing.GroupLayout.PREFERRED_SIZE, 113,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE,
215, javax.swing.GroupLayout.PREFERRED_SIZE))))
            .addGap(39, 39, 39))
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jSeparator1)
            .addContainerGap())
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(32, 32, 32)
            .addComponent(jLabel1)
            .addGap(18, 18, 18)
            .addComponent(jLabel2)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 180,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(16, 16, 16)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jSpinnerNivel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel3)
                .addComponent(jButtonConsultar))
```

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```
            .addGap(18, 18, 18)
            .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 3,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(19, 19, 19)
            .addComponent(jLabel4)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 180,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jButtonCancelar)
            .addComponent(jButtonExportar))
            .addContainerGap(259, Short.MAX_VALUE))
        );
    }// </editor-fold>

    private void jButtonConsultarActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        try {
            Puesto puesto = jListPuestos.getSelectedValue();
            int nivel = (int) jSpinnerNivel.getValue();
            ArrayList<Postulante> listaDePosParaPuesto =
modelo.darListaPostulantesPorPuesto(puesto, nivel);
            listaPos = listaDePosParaPuesto;
            DefaultListModel<Postulante> listaPuesto = new DefaultListModel<>();
            for (Postulante postulante : listaDePosParaPuesto) {
                listaPuesto.addElement(postulante);
            }
            jListPostulantes.setModel(listaPuesto);
        } catch (NullPointerException e) {
            JOptionPane.showMessageDialog(this, "Debe seleccionar un puesto");

        }

    }

    private void jButtonCancelarActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        Lmodelo.clear();
        jSpinnerNivel.setValue(0);
    }

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

```
    // TODO add your handling code here:
    Puesto puesto = jListPuestos.getSelectedValue();
    modelo.guardarDataPuesto("consulta.txt", listaPos, puesto);
}


    // Variables declaration - do not modify
    private javax.swing.JButton jButtonCancelar;
    private javax.swing.JButton jButtonConsultar;
    private javax.swing.JButton jButtonExportar;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JList<Postulante> jListPostulantes;
    private javax.swing.JList<Puesto> jListPuestos;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JSpinner jSpinnerNivel;
    // End of variables declaration
}
```

registroTematica

```java
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Interfaz;

import Dominio.Sistema;
import Exceptions.Exception_DuplicateName;
import Exceptions.Exception_StringVacio;
import java.awt.Color;
import javax.swing.border.Border;
import javax.swing.BorderFactory;
import javax.swing.JOptionPane;
import javax.swing.UIManager;

public class registroTematica extends javax.swing.JPanel {

    private Sistema modelo;


    public registroTematica() {
        initComponents();
    }

    public registroTematica(Sistema miModelo) {
        modelo = miModelo;
        initComponents();
        jLabelException.setVisible(false);
    }

    /**
     * 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() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        txtNombre = new javax.swing.JTextField();
        jLabel3 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        txtAreaDesc = new javax.swing.JTextArea();
        btnCancelar = new javax.swing.JButton();
```

```java
BtnRegistrar = new javax.swing.JButton();
jLabelException = new javax.swing.JLabel();

setPreferredSize(new java.awt.Dimension(850, 880));

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("Registro Temática");

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel2.setText("Nombre:");

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

jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel3.setText("Descripción:");

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

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

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

jLabelException.setFont(new java.awt.Font("Segoe UI", 2, 10)); // NOI18N
jLabelException.setText("jLabel4");
```

```
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
        this.setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(80, 80, 80)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(jLabelException, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(btnCancelar, javax.swing.GroupLayout.PREFERRED_SIZE,
140, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(BtnRegistrar, javax.swing.GroupLayout.PREFERRED_SIZE,
140, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
87, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addComponent(txtNombre)
                    .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE,
597, Short.MAX_VALUE))))
                .addContainerGap(80, Short.MAX_VALUE))
            .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(46, 46, 46)
                .addComponent(jLabel1)
                .addGap(36, 36, 36)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(3, 3, 3)
```

```
                .addComponent(jLabel2))
            .addComponent(txtNombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(100, 100, 100)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel3)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
162, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabelException, javax.swing.GroupLayout.PREFERRED_SIZE,
14, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(113, 113, 113)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(btnCancelar)
            .addComponent(BtnRegistrar))
            .addContainerGap(328, Short.MAX_VALUE))
        );
    }// </editor-fold>

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

    private void btnCancelarActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        txtNombre.setText("");
        txtAreaDesc.setText("");
    }

    private void BtnRegistrarActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        jLabelException.setVisible(false);
        String nombre = txtNombre.getText();
        String descripcion = txtAreaDesc.getText();

txtNombre.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));

txtAreaDesc.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));
        try {
            modelo.registrarTematica(nombre, descripcion);
```

```java
            txtNombre.setText("");
            txtAreaDesc.setText("");
        } catch (Exception_StringVacio ex) {
            jLabelException.setVisible(true);
            jLabelException.setText("Complete las áreas indicadas");
            Border border = BorderFactory.createLineBorder(Color.RED, 2);
            if (txtNombre.getText().equals("")) {
                txtNombre.setBorder(border);
            }
            if (txtAreaDesc.getText().equals("")) {
                txtAreaDesc.setBorder(border);
            }
        } catch (Exception_DuplicateName ex) {
            JOptionPane.showMessageDialog(null, "La temática ya se encuentra registrada");
        }


    }



    // Variables declaration - do not modify
    private javax.swing.JButton BtnRegistrar;
    private javax.swing.JButton btnCancelar;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabelException;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTextArea txtAreaDesc;
    private javax.swing.JTextField txtNombre;
    // End of variables declaration
}
```

```java
consultaTematica
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Interfaz;

import Dominio.Experiencia;
import Dominio.Postulante;
import Dominio.Sistema;
import Dominio.Tematica;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.DefaultListModel;


public class consultaTematica extends javax.swing.JPanel {

    private Sistema modelo;
    DefaultListModel<Postulante> Lmodelo = new DefaultListModel<>();

    public consultaTematica() {

        initComponents();
    }

    public consultaTematica(Sistema miModelo) {
        this.modelo = miModelo;
        initComponents();
        jListPost.setModel(Lmodelo);
        for (Tematica tem : modelo.getListaTematicas()) {
            jcbTematica.addItem(tem);
        }
        Tematica tematIni = (Tematica) jcbTematica.getSelectedItem();
        setearInfo(tematIni);
        jcbTematica.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                Tematica tem = (Tematica) jcbTematica.getSelectedItem();
                setearInfo(tem);
                postulantesMayorNivel5();
            }
        });


    }
    private void setearInfo(Tematica tem){
```

```
        jLabelTematica.setText(tem.toString());
        jLabelTematica2.setText(tem.toString() + ": ");
        int cant = modelo.cantPuestosTematica(tem);
        jLabelRespuesta.setText(String.valueOf(cant));
        jLabelDescripcion.setText(tem.getDescripcion());
    }
    private void postulantesMayorNivel5(){
        for (int i = 0; i < modelo.getListaPostulantes().size(); i++) {
            Postulante pos = modelo.getListaPostulantes().get(i);
            if (pos.postulanteTieneExperienciaMayorNivel(5,(Tematica)
jcbTematica.getSelectedItem())){
                Lmodelo.addElement(pos);
            }
        }
    }

    /**
     * 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() {

        jcbTematica = new javax.swing.JComboBox<>();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jScrollPane2 = new javax.swing.JScrollPane();
        jListPost = new javax.swing.JList<>();
        jLabel3 = new javax.swing.JLabel();
        jLabelTematica = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabelTematica2 = new javax.swing.JLabel();
        jLabelRespuesta = new javax.swing.JLabel();
        jLabelDescripcion = new javax.swing.JLabel();

        setPreferredSize(new java.awt.Dimension(850, 880));

        jcbTematica.setToolTipText("");
        jcbTematica.addItemListener(new java.awt.event.ItemListener() {
            public void itemStateChanged(java.awt.event.ItemEvent evt) {
                jcbTematicaItemStateChanged(evt);
            }
```

```
    });
    jcbTematica.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jcbTematicaActionPerformed(evt);
        }
    });

    jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
    jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    jLabel1.setText("Consulta Tematica");

    jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
    jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    jLabel2.setText("Descripción");

    jScrollPane2.setViewportView(jListPost);

    jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel3.setText("Postulantes con nivel mayor a 5 en");

    jLabelTematica.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabelTematica.setText("jLabel4");

    jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel5.setText("Cantidad de puestos que requieren conocimiento en");

    jLabelTematica2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabelTematica2.setText("jLabel4");

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

    jLabelDescripcion.setText("jLabel4");

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
    this.setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()
            .addGap(38, 38, 38)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel3)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabelTematica))
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel5)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabelTematica2)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabelRespuesta))
            .addComponent(jcbTematica, 0, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
            .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jScrollPane2, javax.swing.GroupLayout.DEFAULT_SIZE, 774,
Short.MAX_VALUE)
            .addComponent(jLabelDescripcion, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addContainerGap(38, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 39,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(43, 43, 43)
            .addComponent(jcbTematica, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(27, 27, 27)
            .addComponent(jLabel2)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jLabelDescripcion,
javax.swing.GroupLayout.PREFERRED_SIZE, 82,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3)
            .addComponent(jLabelTematica))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
        .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 200,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel5)
        .addComponent(jLabelTematica2)
        .addComponent(jLabelRespuesta))
        .addContainerGap(348, Short.MAX_VALUE))
    );
}// </editor-fold>

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

private void jcbTematicaItemStateChanged(java.awt.event.ItemEvent evt) {
    // TODO add your handling code here:
    Lmodelo.clear();
    jLabelTematica.setText(jcbTematica.getSelectedItem().toString());
    for (int i = 0; i < modelo.getListaPostulantes().size(); i++) {
        boolean flag = false;
        Postulante pos = modelo.getListaPostulantes().get(i);
        for (int j = 0; !flag && j < pos.getListaExperiencia().size(); j++) {
            Experiencia exp = pos.getListaExperiencia().get(j);
            if
((exp.getExperiencia().toString().equalsIgnoreCase(jcbTematica.getSelectedItem().toString()
)) && (exp.getNivel() >= 5)) {
                flag = true;
            }
        }
        if (flag) {
            Lmodelo.addElement(pos);
        }
    }
}


    // Variables declaration - do not modify
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabelDescripcion;
```

```java
    private javax.swing.JLabel jLabelRespuesta;
    private javax.swing.JLabel jLabelTematica;
    private javax.swing.JLabel jLabelTematica2;
    private javax.swing.JList<Postulante> jListPost;
    private javax.swing.JScrollPane jScrollPane2;
    private javax.swing.JComboBox<Tematica> jcbTematica;
    // End of variables declaration
}
```

ingresoEntrevista
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Interfaz;

```java
import Dominio.Evaluador;
import Dominio.Postulante;
import Dominio.Sistema;
import Exceptions.Exception_StringVacio;
import java.awt.Color;
import java.beans.PropertyChangeEvent;
import java.beans.PropertyChangeListener;
import javax.swing.BorderFactory;
import javax.swing.DefaultListModel;
import javax.swing.JOptionPane;
import javax.swing.UIManager;
import javax.swing.border.Border;
import javax.swing.event.ListSelectionEvent;
import javax.swing.event.ListSelectionListener;


public class ingresoEntrevista extends javax.swing.JPanel {

    private Sistema modelo;
    DefaultListModel<Object> Lmodelo1 = new DefaultListModel<>();
    DefaultListModel<Object> Lmodelo2 = new DefaultListModel<>();


    public ingresoEntrevista() {
        initComponents();
    }

    public ingresoEntrevista(Sistema modelo) {
        this.modelo = modelo;
        initComponents();
        jLPostulante.setModel(Lmodelo1);
        jLEvaluador.setModel(Lmodelo2);
        for (int i = 0; i < modelo.getListaPostulantes().size(); i++) {
            Lmodelo1.addElement(modelo.getListaPostulantes().get(i));
        }
        for (int i = 0; i < modelo.getListaEvaluadores().size(); i++) {
            Lmodelo2.addElement(modelo.getListaEvaluadores().get(i));
        }
        jLEvaluador.getSelectionModel().addListSelectionListener(new ListSelectionListener() {
            @Override
```

```java
            public void valueChanged(ListSelectionEvent e) {
                try {
                    jLabelEvaluador.setText(jLEvaluador.getSelectedValue().toString());
                } catch (Exception a) {

                }
            }

        });
        jLPostulante.getSelectionModel().addListSelectionListener(new ListSelectionListener() {
            @Override
            public void valueChanged(ListSelectionEvent e) {
                try {
                    jLabelPostulante1.setText(jLPostulante.getSelectedValue().toString());
                } catch (Exception a) {

                }
            }

        });
        jLabelException.setVisible(false);

    }

    /**
     * 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() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        jLEvaluador = new javax.swing.JList<>();
        jLabel3 = new javax.swing.JLabel();
        JLabelEvaluador = new javax.swing.JLabel();
        jLabelEvaluador = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jTfPuntaje = new javax.swing.JTextField();
        jLabel7 = new javax.swing.JLabel();
        jScrollPane3 = new javax.swing.JScrollPane();
```

```java
jTaComentario = new javax.swing.JTextArea();
jBIngresa = new javax.swing.JButton();
jBCancelar = new javax.swing.JButton();
jLabelPostulante1 = new javax.swing.JLabel();
jScrollPane4 = new javax.swing.JScrollPane();
jLPostulante = new javax.swing.JList<>();
jLabelException = new javax.swing.JLabel();

setPreferredSize(new java.awt.Dimension(850, 880));
setLayout(null);

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("Ingreso Entrevista");
jLabel1.setMaximumSize(new java.awt.Dimension(100, 20));
jLabel1.setMinimumSize(new java.awt.Dimension(100, 20));
add(jLabel1);
jLabel1.setBounds(-2, 6, 850, 25);

jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel2.setText("Seleccione un Evaluador:");
add(jLabel2);
jLabel2.setBounds(30, 80, 340, 20);

jScrollPane1.setViewportView(jLEvaluador);

add(jScrollPane1);
jScrollPane1.setBounds(30, 110, 340, 170);

jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel3.setText("Seleccione un postulante:");
add(jLabel3);
jLabel3.setBounds(480, 80, 310, 20);
add(JLabelEvaluador);
JLabelEvaluador.setBounds(187, 200, 0, 0);

jLabelEvaluador.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabelEvaluador.setText("Seleccione un evaluador");
add(jLabelEvaluador);
jLabelEvaluador.setBounds(30, 320, 340, 20);

jLabel6.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel6.setText("Puntaje (0 - 100):");
add(jLabel6);
```

```java
jLabel6.setBounds(30, 370, 130, 20);
add(jTfPuntaje);
jTfPuntaje.setBounds(170, 370, 640, 22);

jLabel7.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabel7.setText("Comentarios:");
add(jLabel7);
jLabel7.setBounds(30, 430, 130, 20);

jTaComentario.setColumns(20);
jTaComentario.setRows(5);
jScrollPane3.setViewportView(jTaComentario);

add(jScrollPane3);
jScrollPane3.setBounds(170, 430, 640, 100);

jBIngresa.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jBIngresa.setText("Ingresar");
jBIngresa.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jBIngresaActionPerformed(evt);
   }
});
add(jBIngresa);
jBIngresa.setBounds(720, 590, 90, 27);

jBCancelar.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jBCancelar.setText("Cancelar");
jBCancelar.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jBCancelarActionPerformed(evt);
   }
});
add(jBCancelar);
jBCancelar.setBounds(30, 590, 130, 27);

jLabelPostulante1.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
jLabelPostulante1.setText("Seleccione un postulante");
add(jLabelPostulante1);
jLabelPostulante1.setBounds(480, 320, 310, 20);

jScrollPane4.setViewportView(jLPostulante);

add(jScrollPane4);
```

```
        jScrollPane4.setBounds(480, 110, 310, 170);

        jLabelException.setFont(new java.awt.Font("Segoe UI", 2, 10)); // NOI18N
        jLabelException.setText("jLabel4");
        add(jLabelException);
        jLabelException.setBounds(30, 560, 540, 14);
    }// </editor-fold>


    private void jBIngresaActionPerformed(java.awt.event.ActionEvent evt) {
        setDefaultBorder();
        jLabelException.setVisible(false);
        try {
            Postulante pos = (Postulante) jLPostulante.getSelectedValue();
            int puntaje = Integer.parseInt(jTfPuntaje.getText());
            if (puntaje > 0 && puntaje <= 100) {
                modelo.registrarEntrevista((Evaluador) jLEvaluador.getSelectedValue(),
(Postulante) jLPostulante.getSelectedValue(), jTfPuntaje.getText(),
pos.getListaEntrevistas().size() + 1, jTaComentario.getText());
                txtVacio();
            } else {
                pintarBordesExepcion();
                setLabelExceptionVisible();
            }
        } catch (Exception_StringVacio ex) {
            pintarBordesExepcion();
            setLabelExceptionVisible();

        } catch (NullPointerException ex) {
            setLabelExceptionVisible();
            pintarBordesExepcion();
        } catch (NumberFormatException ex) {
            pintarBordesExepcion();

        }

    }

    private void jBCancelarActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        Object[] opciones = {"Ok", "Cancelar"};
        String mensaje = "Si cancela se borraran todos los datos ";
        int opcionSeleccionada = JOptionPane.showOptionDialog(this,
            mensaje,
```

```
                    "Confirmación",
                    JOptionPane.YES_NO_OPTION,
                    JOptionPane.QUESTION_MESSAGE,
                    null,
                    opciones, opciones[1]);
            if (opcionSeleccionada == 0) {
                txtVacio();

            }


        }
    private void setDefaultBorder() {

jTfPuntaje.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));

jLEvaluador.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));

jLPostulante.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));

jTaComentario.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));
    }

    private void setLabelExceptionVisible() {
        jLabelException.setVisible(true);
        jLabelException.setText("Complete los campos indicados");
    }

    private void pintarBordesExepcion() {
        Border border = BorderFactory.createLineBorder(Color.RED, 2);
        try {
            int puntaje = Integer.parseInt(jTfPuntaje.getText());
            if (jTfPuntaje.getText().isEmpty() || puntaje > 100 || puntaje < 0) {
                jTfPuntaje.setBorder(border);
            }
        } catch (NumberFormatException ex) {
            jTfPuntaje.setBorder(border);

        }
        if (jTaComentario.getText().isEmpty()) {
            jTaComentario.setBorder(border);
```

```java
    }

    if (jLEvaluador.isSelectionEmpty()) {
        jLEvaluador.setBorder(border);
    }
    if (jLPostulante.isSelectionEmpty()) {
        jLPostulante.setBorder(border);
    }
}

private void txtVacio() {
    jLabelEvaluador.setText("");
    jLabelPostulante1.setText("");
    jTfPuntaje.setText("");
    jTaComentario.setText("");
    jLEvaluador.clearSelection();
    jLPostulante.clearSelection();

}
// Variables declaration - do not modify
private javax.swing.JLabel JLabelEvaluador;
private javax.swing.JButton jBCancelar;
private javax.swing.JButton jBIngresa;
private javax.swing.JList<Object> jLEvaluador;
private javax.swing.JList<Object> jLPostulante;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabelEvaluador;
private javax.swing.JLabel jLabelException;
private javax.swing.JLabel jLabelPostulante1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane3;
private javax.swing.JScrollPane jScrollPane4;
private javax.swing.JTextArea jTaComentario;
private javax.swing.JTextField jTfPuntaje;
// End of variables declaration


}
```

```java
registroEvaluador
//Autores: Andres Dalla Rizza, Rodrigo Soca
package Interfaz;

import Dominio.Sistema;

import Exceptions.Exception_ParseNumero;
import Exceptions.Exception_StringVacio;
import java.awt.Color;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.BorderFactory;
import javax.swing.JOptionPane;
import javax.swing.UIManager;
import javax.swing.border.Border;

public class registroEvaluador extends javax.swing.JPanel {

    private Sistema modelo;


    public registroEvaluador() {
        initComponents();
    }

    public registroEvaluador(Sistema miModelo) {
        this.modelo = miModelo;
        initComponents();
        jLabeExcep1.setVisible(false);
        jLabelExcep2.setVisible(false);
        jLabelException.setVisible(false);
    }

    public boolean esCedulaValida(String id) {
        boolean res = true;
        for (int i = 0; i < modelo.getListaEvaluadores().size(); i++) {
            if (String.valueOf(modelo.getListaEvaluadores().get(i).getId()).equals(id)) {
                res = false;
            }
        }
        return res;
    }

    /**
```

```
 * 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() {

  jtxtId = new javax.swing.JTextField();
  jtxtDir = new javax.swing.JTextField();
  jLabel1 = new javax.swing.JLabel();
  jtxtAñoIn = new javax.swing.JTextField();
  jLabel2 = new javax.swing.JLabel();
  jLabel3 = new javax.swing.JLabel();
  jLabel4 = new javax.swing.JLabel();
  jLabel5 = new javax.swing.JLabel();
  jBCancelar = new javax.swing.JButton();
  jBRegistrar = new javax.swing.JToggleButton();
  jtxtNombre = new javax.swing.JTextField();
  jLabelException = new javax.swing.JLabel();
  jLabeExcep1 = new javax.swing.JLabel();
  jLabelExcep2 = new javax.swing.JLabel();

  setPreferredSize(new java.awt.Dimension(850, 880));

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

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

  jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
  jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
  jLabel1.setText("Registro Evaluador");
  jLabel1.setMaximumSize(new java.awt.Dimension(100, 20));
  jLabel1.setMinimumSize(new java.awt.Dimension(100, 20));

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

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

    jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel2.setText("Nombre:");

    jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel3.setText("Cédula:");

    jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel4.setText("Dirección:");

    jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N
    jLabel5.setText("Año de Ingreso:");

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

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

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

    jLabelException.setFont(new java.awt.Font("Segoe UI", 2, 10)); // NOI18N
    jLabelException.setText("jLabel4");

    jLabeExcep1.setFont(new java.awt.Font("Segoe UI", 0, 10)); // NOI18N
    jLabeExcep1.setText("blank");
```

```
jLabelExcep2.setFont(new java.awt.Font("Segoe UI", 0, 10)); // NOI18N
jLabelExcep2.setText("blank");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
this.setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(layout.createSequentialGroup()
            .addGap(46, 46, 46)
            .addComponent(jBCancelar, javax.swing.GroupLayout.PREFERRED_SIZE,
140, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jBRegistrar, javax.swing.GroupLayout.PREFERRED_SIZE,
140, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
            .addGap(54, 54, 54)

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

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addComponent(jLabel2,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jLabel3,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addComponent(jLabel4,
javax.swing.GroupLayout.DEFAULT_SIZE, 103, Short.MAX_VALUE))
                .addComponent(jLabel5,
javax.swing.GroupLayout.PREFERRED_SIZE, 128,
javax.swing.GroupLayout.PREFERRED_SIZE))

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

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jtxtId)
                    .addComponent(jtxtAñoIn)
                    .addComponent(jtxtNombre)
                    .addComponent(jtxtDir, javax.swing.GroupLayout.DEFAULT_SIZE,
620, Short.MAX_VALUE)
                    .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jLabeExcep1,
javax.swing.GroupLayout.PREFERRED_SIZE, 370,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabelExcep2,
javax.swing.GroupLayout.PREFERRED_SIZE, 370,
javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(0, 0, Short.MAX_VALUE))))
                .addComponent(jLabelException,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))))
            .addGap(42, 42, 42))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(50, 50, 50)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(jtxtNombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(100, 100, 100)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3)
                .addComponent(jtxtId, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(100, 100, 100)
```

```
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel4)
                    .addComponent(jtxtDir, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(layout.createSequentialGroup()
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabeExcep1)))
          .addGap(100, 100, 100)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel5)
                    .addComponent(jtxtAñoIn, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
              .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
              .addComponent(jLabelExcep2, javax.swing.GroupLayout.PREFERRED_SIZE, 16,
javax.swing.GroupLayout.PREFERRED_SIZE)
              .addGap(7, 7, 7)
              .addComponent(jLabelException, javax.swing.GroupLayout.PREFERRED_SIZE,
14, javax.swing.GroupLayout.PREFERRED_SIZE)
              .addGap(124, 124, 124)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jBRegistrar)
                    .addComponent(jBCancelar))
              .addContainerGap())
      );
   }// </editor-fold>

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

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

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

   private void jBCancelarActionPerformed(java.awt.event.ActionEvent evt) {
      // TODO add your handling code here:
      Object[] opciones = {"Ok", "Cancelar"};
```

```java
        String mensaje = "Si cancela se borraran todos los datos ";
        int opcionSeleccionada = JOptionPane.showOptionDialog(this,
            mensaje,
            "Confirmación",
            JOptionPane.YES_NO_OPTION,
            JOptionPane.QUESTION_MESSAGE,
            null,
            opciones, opciones[1]);
        if (opcionSeleccionada == 0) {
            txtVacio();

        }

    }

    private void jBRegistrarActionPerformed(java.awt.event.ActionEvent evt) {
        if (esCedulaValida(jtxtId.getText()) && (Integer.parseInt(jtxtAñoIn.getText()) <= 2023)) {
            setLabelExceptionVisible();
            String nombre = jtxtNombre.getText();
            String id = jtxtId.getText();
            String direccion = jtxtDir.getText();
            String añoIn = jtxtAñoIn.getText();
            setDefaultBorder();
            try {
                modelo.registrarEvaluador(nombre, id, direccion, añoIn);
                txtVacio();
            } catch (Exception_StringVacio ex) {
                Border border = BorderFactory.createLineBorder(Color.RED, 2);
                checkAndSetBorder(border);
                jLabelException.setVisible(true);
                jLabelException.setText("Complete las áreas indicadas");
            } catch (Exception_ParseNumero ex) {
                jLabeExcep1.setText("Debe Ingresar un número");
                jLabeExcep1.setVisible(true);
                jLabelExcep2.setText("Debe Ingresar un número");
                jLabelExcep2.setVisible(true);
            }
        } else {
            if (!esCedulaValida(jtxtId.getText())) {
                JOptionPane.showMessageDialog(null, "Error: Ya hay un evaluador con esa
cedula");

            }
            if ((Integer.parseInt(jtxtAñoIn.getText()) <= 2023)) {
```

```java
        JOptionPane.showMessageDialog(null, "Ingrese una fecha anterior o igual a
2023");
      }

    }
  }
  private void txtVacio() {
    jtxtNombre.setText("");
    jtxtId.setText("");
    jtxtDir.setText("");
    jtxtAñoIn.setText("");
  }

  private void checkAndSetBorder(Border border) {
    if (jtxtNombre.getText().equals("")) {
      jtxtNombre.setBorder(border);
    }
    if (jtxtDir.getText().equals("")) {
      jtxtDir.setBorder(border);
    }
    if (jtxtId.getText().equals("")) {
      jtxtId.setBorder(border);
    }
    if (jtxtAñoIn.getText().equals("")) {
      jtxtAñoIn.setBorder(border);
    }
  }

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

  private void setLabelExceptionVisible() {
    jLabeExcep1.setVisible(false);
    jLabelExcep2.setVisible(false);
    jLabelException.setVisible(false);
  }

  private void setDefaultBorder() {

jtxtNombre.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.bord
er"));

jtxtDir.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));
```

```java
jtxtId.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"));

jtxtAñoIn.setBorder(UIManager.getLookAndFeel().getDefaults().getBorder("TextField.border"
));
  }

  // Variables declaration - do not modify
  private javax.swing.JButton jBCancelar;
  private javax.swing.JToggleButton jBRegistrar;
  private javax.swing.JLabel jLabeExcep1;
  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 jLabelExcep2;
  private javax.swing.JLabel jLabelException;
  private javax.swing.JTextField jtxtAñoIn;
  private javax.swing.JTextField jtxtDir;
  private javax.swing.JTextField jtxtId;
  private javax.swing.JTextField jtxtNombre;
  // End of variables declaration
}
```

Serializacion

ArchivoGrabacion

```java
package Serializacion;
//Autores: Andres Dalla Rizza, Rodrigo Soca
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.util.Formatter;

public class ArchivoGrabacion {

    private Formatter out;
    private boolean appendable;
    public ArchivoGrabacion(String unNombre,boolean appendable) {
        try {
            out = new Formatter(new FileOutputStream(unNombre, appendable));
        } catch (FileNotFoundException e) {
            System.out.println("no se puede crear");
            System.exit(1);
        } catch (SecurityException e) {
            System.out.println("sin permisos");
            System.exit(1);
        }
    }

    public void grabarLinea(String linea) {
        out.format("%s%n", linea);
    }

    public void cerrar() {
        out.close();
    }


}
```

Exceptions
Exception_DuplicateId
//Autores: Andres Dalla Rizza, Rodrigo Soca
```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package Exceptions;

/**
 *
 * @author andre
 */
public class Exception_DuplicateId extends Exception{
    public Exception_DuplicateId(String descripcion){
    super(descripcion);
  }
}
```
Exception_DuplicateName
//Autores: Andres Dalla Rizza, Rodrigo Soca
```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package Exceptions;


public class Exception_DuplicateName extends Exception{
  public Exception_DuplicateName(String descripcion) {
    super(descripcion);
  }
}
```

Exception_ParseNumero

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package Exceptions;

/**
 *
 * @author andre
 */
public class Exception_ParseNumero  extends Exception{
    public Exception_ParseNumero(String descripcion){
    super(descripcion);

  }
}
```

Exception_StringVacio

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package Exceptions;

/**
 *
 * @author socar
 */
public class Exception_StringVacio extends Exception {
    public Exception_StringVacio (String descripcion){
     super(descripcion);
}
}
```

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