Davante

Tarea Módulo 2

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Clase GestorUsuarios

```java
import javax.swing.*;
import java.awt.*;

public class GestorUsuarios extends JFrame {

    private JPanel headerPanel;  3 usages
    private JPanel navPanel;  3 usages
    private JPanel formPanel;  11 usages
    private JPanel previewPanel;  4 usages
    private JPanel buttonBar;  5 usages

    public GestorUsuarios() {  1 usage
        setTitle("Gestor de usuarios");
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setLayout(new BorderLayout( hgap: 5, vgap: 5));

        // --- Header (NORTH) ---
        headerPanel = new JPanel(new FlowLayout(FlowLayout.LEFT));
        JLabel titulo = new JLabel( text: "Gestor de usuarios");
        titulo.setFont(new Font( name: "Arial", Font.BOLD,  size: 18));
        titulo.setIcon(UIManager.getIcon( key: "FileView.directoryIcon")); // icono ejemplo
        headerPanel.add(titulo);
        add(headerPanel, BorderLayout.NORTH);

        // --- Navegación lateral (WEST) ---
        navPanel = new JPanel(new GridLayout( rows: 5, cols: 1, hgap: 0, vgap: 5));
        String[] botones = {"Dashboard","Usuarios","Informes","Ajustes","Ayuda"};
        for (String b : botones) {
            navPanel.add(new JButton(b));
        }
        add(navPanel, BorderLayout.WEST);
```

```java

        // --- Formulario (CENTER) ---
        formPanel = new JPanel(new GridBagLayout());
        GridBagConstraints gbc = new GridBagConstraints();
        gbc.insets = new Insets( top: 5, left: 5, bottom: 5, right: 5);
        gbc.anchor = GridBagConstraints.WEST;

        // Fila 0 - Nombre
        gbc.gridx=0; gbc.gridy=0; gbc.weightx=0; gbc.fill=GridBagConstraints.NONE;
        formPanel.add(new JLabel( text: "Nombre:"), gbc);
        gbc.gridx=1; gbc.weightx=1.0; gbc.fill=GridBagConstraints.HORIZONTAL;
        formPanel.add(new JTextField( columns: 20), gbc);

        // Fila 1 - Email
        gbc.gridx=0; gbc.gridy=1; gbc.weightx=0; gbc.fill=GridBagConstraints.NONE;
        formPanel.add(new JLabel( text: "Email:"), gbc);
        gbc.gridx=1; gbc.weightx=1.0; gbc.fill=GridBagConstraints.HORIZONTAL;
        formPanel.add(new JTextField( columns: 20), gbc);

        // Fila 2 - Rol
        gbc.gridx=0; gbc.gridy=2; gbc.weightx=0; gbc.fill=GridBagConstraints.NONE;
        formPanel.add(new JLabel( text: "Rol:"), gbc);
        gbc.gridx=1; gbc.weightx=1.0; gbc.fill=GridBagConstraints.HORIZONTAL;
        formPanel.add(new JComboBox<>(new String[]{"Admin","Editor","Invitado"}), gbc);

        // Fila 3 - Activo
        gbc.gridx=0; gbc.gridy=3; gbc.weightx=0; gbc.fill=GridBagConstraints.NONE;
```

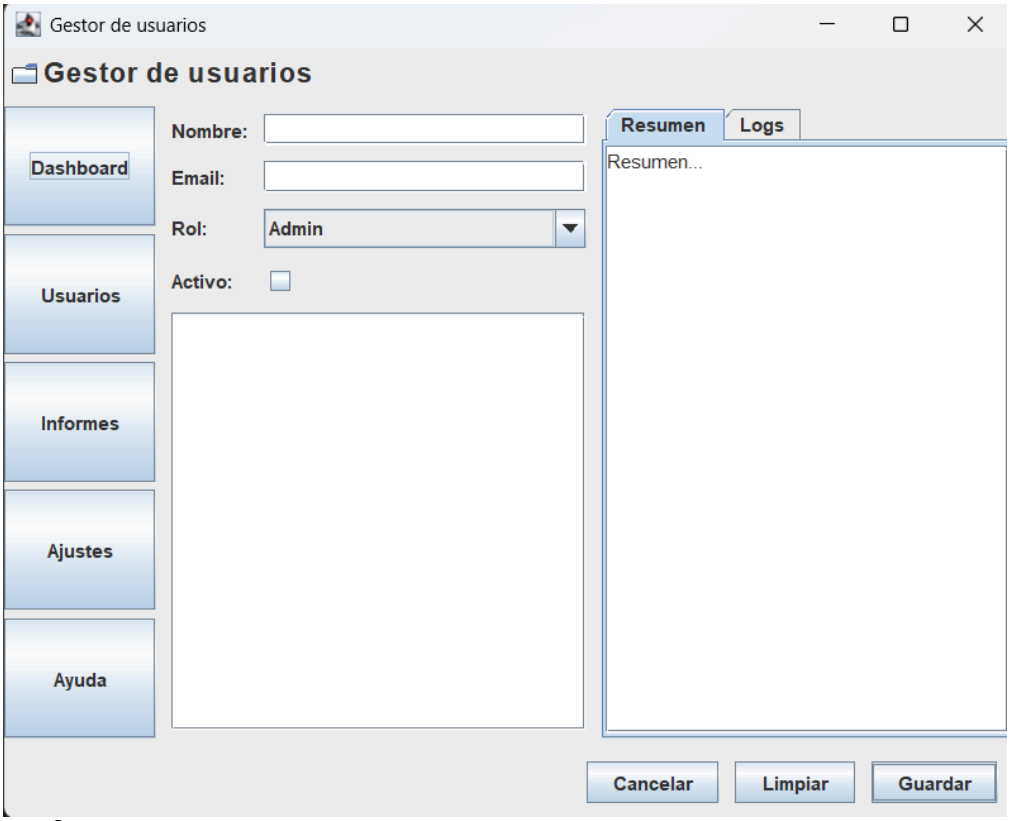
```java
        gbc.gridx=1; gbc.weightx=1.0; gbc.fill=GridBagConstraints.NONE;
        formPanel.add(new JCheckBox(), gbc);

        // Fila 4 - Notas
        gbc.gridx=0; gbc.gridy=4; gbc.gridwidth=2; gbc.weightx=1.0; gbc.weighty=1.0;
        gbc.fill = GridBagConstraints.BOTH;
        JTextArea notas = new JTextArea();
        formPanel.add(new JScrollPane(notas), gbc);

        add(formPanel, BorderLayout.CENTER);

        // --- Previsualización (EAST) ---
        previewPanel = new JPanel(new BorderLayout());
        JTabbedPane tabs = new JTabbedPane();
        JTextArea resumen = new JTextArea("Resumen...");
        resumen.setEditable(false);
        tabs.addTab( title: "Resumen", new JScrollPane(resumen));
        tabs.addTab( title: "Logs", new JScrollPane(new JTextArea("Logs...")));
        previewPanel.add(tabs, BorderLayout.CENTER);
        previewPanel.setPreferredSize(new Dimension( width: 260, height: 400));
        add(previewPanel, BorderLayout.EAST);

        // --- Botonera (SOUTH) ---
        buttonBar = new JPanel(new FlowLayout(FlowLayout.RIGHT, hgap: 10, vgap: 10));
        JButton btnCancelar = new JButton( text: "Cancelar");
        JButton btnLimpiar = new JButton( text: "Limpiar");
        JButton btnGuardar = new JButton( text: "Guardar");
        buttonBar.add(btnCancelar);
        buttonBar.add(btnLimpiar);
        buttonBar.add(btnGuardar);
```

```java
        getRootPane().setDefaultButton(btnGuardar);
        add(buttonBar, BorderLayout.SOUTH);

        pack();
        setLocationRelativeTo(null);
        setVisible(true);

        // --- Evento Guardar ---
        btnGuardar.addActionListener( ActionEvent e -> {
            DialogConfirmacion dialog = new DialogConfirmacion( parent: this);
            dialog.setModal(true);
            dialog.pack();
            dialog.setLocationRelativeTo(this);
            dialog.setVisible(true);
        });
    }

    public static void main(String[] args) {
        SwingUtilities.invokeLater(GestorUsuarios::new);
    }
}
```

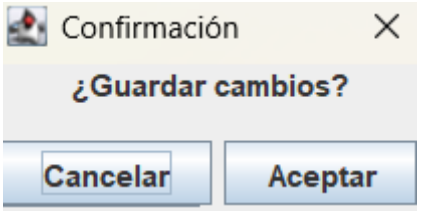
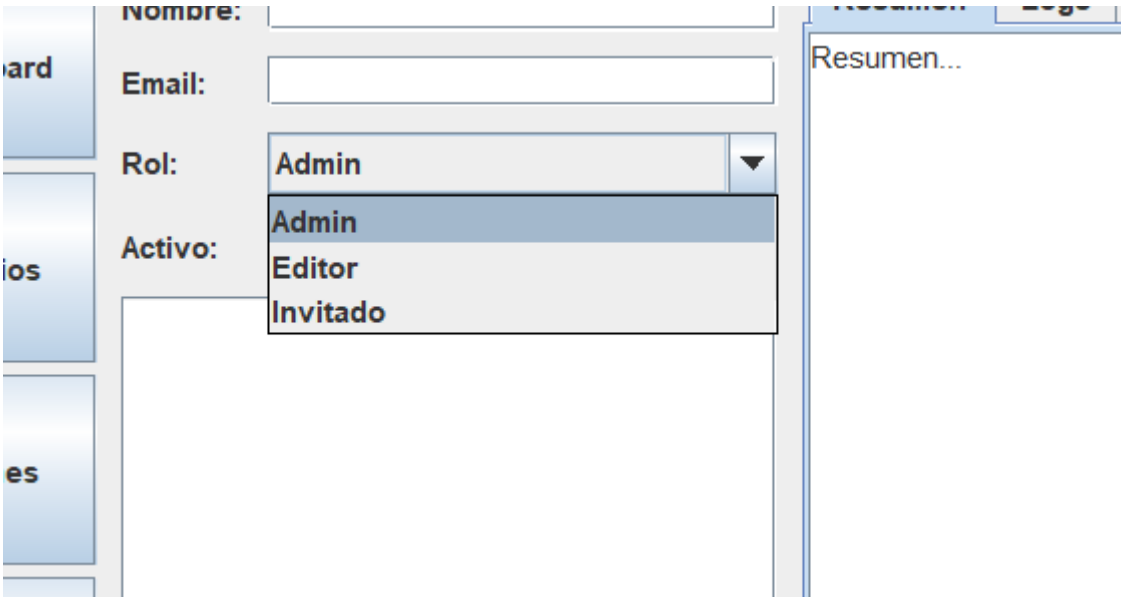
Clase DialogConfirmacion

```java
import javax.swing.*;
import java.awt.*;

public class DialogConfirmacion extends JDialog {  2 usages

    public DialogConfirmacion(JFrame parent) {  1 usage
        super(parent, title: "Confirmación", modal: true);
        setLayout(new BorderLayout( hgap: 10, vgap: 10));

        JLabel mensaje = new JLabel( text: "¿Guardar cambios?");
        mensaje.setHorizontalAlignment(SwingConstants.CENTER);
        add(mensaje, BorderLayout.CENTER);

        JPanel botones = new JPanel(new FlowLayout(FlowLayout.RIGHT));
        JButton aceptar = new JButton( text: "Aceptar");
        JButton cancelar = new JButton( text: "Cancelar");
        botones.add(cancelar);
        botones.add(aceptar);
        add(botones, BorderLayout.SOUTH);

        cancelar.addActionListener( ActionEvent e -> dispose());
        aceptar.addActionListener( ActionEvent e -> dispose());

        setSize( width: 300, height: 150);
        setLocationRelativeTo(parent);
    }
}
```

Una vez que lo ejecutamos nos sale lo siguiente:



Si le damos a guardar nos sale esto:



Podemos cambiar el rol: