

Tarea Módulo 2

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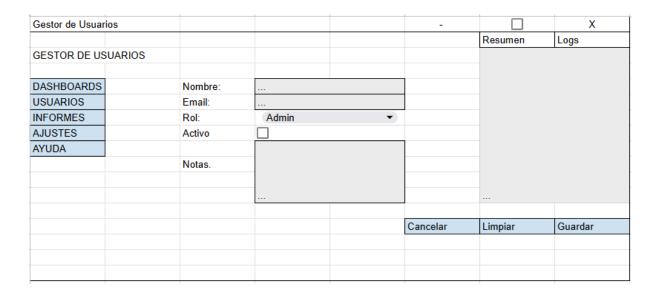
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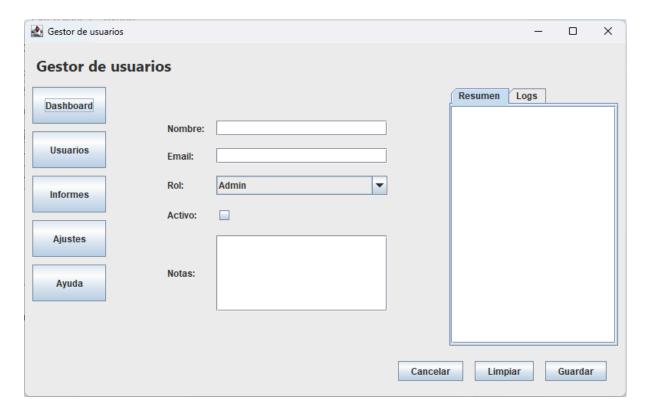


Boceto de la Interfaz



"Hecho con el Excel"

Interfaz final







Código

```
package Ejercicio_2;
    import javax.swing.*;
    import java.awt.*;
    import java.awt.event.ActionEvent;
    public class VentanaLayouts extends JFrame {
       private JPanel rootPanel;
       private JTextField txtNombre;
       private JTextField txtEmail;
       private JTextArea txtNotas;
       private JComboBox<String> comboRol;
       private JCheckBox chkActivo;
       public VentanaLayouts() {
           rootPanel = new JPanel(new BorderLayout(10, 10));
            rootPanel.setBorder(BorderFactory.createEmptyBorder(10, 10,
10, 10));
                            JPanel
                                     panelNorte =
                                                              JPanel (new
FlowLayout(FlowLayout.LEFT));
```



```
JLabel titulo = new JLabel("Gestor de usuarios");
           titulo.setFont(new Font("Segoe UI", Font.BOLD, 20));
           panelNorte.add(titulo);
           rootPanel.add(panelNorte, BorderLayout.NORTH);
              JPanel panelOeste = new JPanel(new GridLayout(6, 1, 10,
10));
            String[] menuItems = {"Dashboard", "Usuarios", "Informes",
"Ajustes", "Ayuda"};
           for (String item : menuItems) {
               JButton btn = new JButton(item);
               panelOeste.add(btn);
           rootPanel.add(panelOeste, BorderLayout.WEST);
           JPanel panelCentro = new JPanel(new GridBagLayout());
           GridBagConstraints gbc = new GridBagConstraints();
           gbc.insets = new Insets(8, 8, 8, 8);
           gbc.anchor = GridBagConstraints.WEST;
           gbc.fill = GridBagConstraints.HORIZONTAL;
           JLabel lblNombre = new JLabel("Nombre:");
```





```
txtNombre = new JTextField(18);
           JLabel lblEmail = new JLabel("Email:");
           txtEmail = new JTextField(18);
           JLabel lblRol = new JLabel("Rol:");
             comboRol = new JComboBox<>(new String[]{"Admin", "User",
           JLabel lblActivo = new JLabel("Activo:");
           chkActivo = new JCheckBox();
           JLabel lblNotas = new JLabel("Notas:");
           txtNotas = new JTextArea(6, 20);
           JScrollPane scrollNotas = new JScrollPane(txtNotas);
             gbc.gridx = 0; gbc.gridy = 0; panelCentro.add(lblNombre,
gbc);
              gbc.gridx = 1; gbc.gridy = 0; panelCentro.add(txtNombre,
gbc);
              gbc.gridx = 0; gbc.gridy = 1; panelCentro.add(lblEmail,
gbc);
              gbc.gridx = 1; gbc.gridy = 1; panelCentro.add(txtEmail,
gbc);
           gbc.gridx = 0; gbc.gridy = 2; panelCentro.add(lblRol, gbc);
              gbc.gridx = 1; gbc.gridy = 2; panelCentro.add(comboRol,
gbc);
              gbc.gridx = 0; gbc.gridy = 3; panelCentro.add(lblActivo,
gbc);
             gbc.gridx = 1; gbc.gridy = 3; panelCentro.add(chkActivo,
gbc);
```





```
gbc.gridx = 0; gbc.gridy = 4; panelCentro.add(lblNotas,
gbc);
                     gbc.gridx = 1; gbc.gridy = 4; gbc.fill =
GridBagConstraints.BOTH; panelCentro.add(scrollNotas, gbc);
           rootPanel.add(panelCentro, BorderLayout.CENTER);
           JTabbedPane tabs = new JTabbedPane();
           JPanel panelResumen = new JPanel(new BorderLayout());
           JTextArea txtResumen = new JTextArea();
           JScrollPane scrollResumen = new JScrollPane(txtResumen);
           panelResumen.add(scrollResumen, BorderLayout.CENTER);
           JPanel panelLogs = new JPanel(new BorderLayout());
           JTextArea txtLogs = new JTextArea("");
           JScrollPane scrollLogs = new JScrollPane(txtLogs);
           panelLogs.add(scrollLogs, BorderLayout.CENTER);
           tabs.addTab("Resumen", panelResumen);
           tabs.addTab("Logs", panelLogs);
           tabs.setPreferredSize(new Dimension(220, 0));
```





```
rootPanel.add(tabs, BorderLayout.EAST);
                             JPanel
                                       panelSur
                                                              JPanel (new
FlowLayout(FlowLayout.RIGHT, 15, 10));
           JButton btnCancelar = new JButton("Cancelar");
           JButton btnLimpiar = new JButton("Limpiar");
           JButton btnGuardar = new JButton("Guardar");
           btnLimpiar.addActionListener(e -> limpiarCampos());
           btnGuardar.addActionListener(this::mostrarDialogo);
           panelSur.add(btnCancelar);
           panelSur.add(btnLimpiar);
           panelSur.add(btnGuardar);
           rootPanel.add(panelSur, BorderLayout.SOUTH);
           setContentPane(rootPanel);
           setTitle("Gestor de usuarios");
           setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
```



```
setSize(800, 500);
           setLocationRelativeTo(null);
           setVisible(true);
       private void limpiarCampos() {
           txtNombre.setText("");
           txtEmail.setText("");
           txtNotas.setText("");
           comboRol.setSelectedIndex(0);
           chkActivo.setSelected(false);
       private void mostrarDialogo(ActionEvent e) {
           JDialog dialogo = new JDialog(this, "Confirmación", true);
           dialogo.setSize(300,150);
           dialogo.setLayout(new BorderLayout());
               JLabel lbl = new JLabel(";Desea guardar los datos?",
SwingConstants.CENTER);
           dialogo.add(lbl, BorderLayout.CENTER);
           JPanel panelBotones = new JPanel(new FlowLayout());
           panelBotones.add(new JButton("Sí"));
```





```
panelBotones.add(new JButton("No"));
    dialogo.add(panelBotones, BorderLayout.SOUTH);

    dialogo.setLocationRelativeTo(this);
    dialogo.setVisible(true);
}

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





Propiedades de la Interfaz

| Categoria | Elementos Usados |
|-------------------------|---|
| Componentes principales | JFrame, JPanel, JLabel, JButton, JTextField, JTextArea, JScrollPane, JComboBox, JCheckBox, JTabbedPane, JDialog |
| Layouts | BorderLayout, FlowLayout, GridLayout, GridBagLayout |
| Clases utilitarias | BorderFactory, GridBagConstraints, Insets, Font, Dimension, SwingUtilities |
| Eventos | ActionEvent, addActionListener() con lambda y referencia a método (this::mostrarDialogo) |
| Métodos personalizados | limpiarCampos(), mostrarDialogo(ActionEvent e) |
| Estructuras de datos | String[] (para el menú y combo box) |

