

MDVAL

DATOS GENERALES

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MDVAL ARQ-001_CAMBIO_PANTALLAS – Protocolo de cambio en pantallas visuales

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Introducción

El presente documento define un protocolo a ejecutar cuando se aborde cualquier cambio de apariencia o de componentes en las pantallas del aplicativo.

Al estar la creación de cada pantalla estructurada siguiendo un orden determinado por el patrón de diseño template-method, se establecen una serie de pasos a realizar para que las modificaciones de la pantalla estén correctamente realizadas.

La arquitectura y secuencia de creación de todas las pantallas pantalla están expuestas en el documento genérico **ARQ-002_PANTALLAS - Arquitectura de pantallas**. Todas las pantallas visuales cumplen la secuencia especificada en dicho documento. Para cualquier aclaración al respecto se recomienda consultar dicho documento.

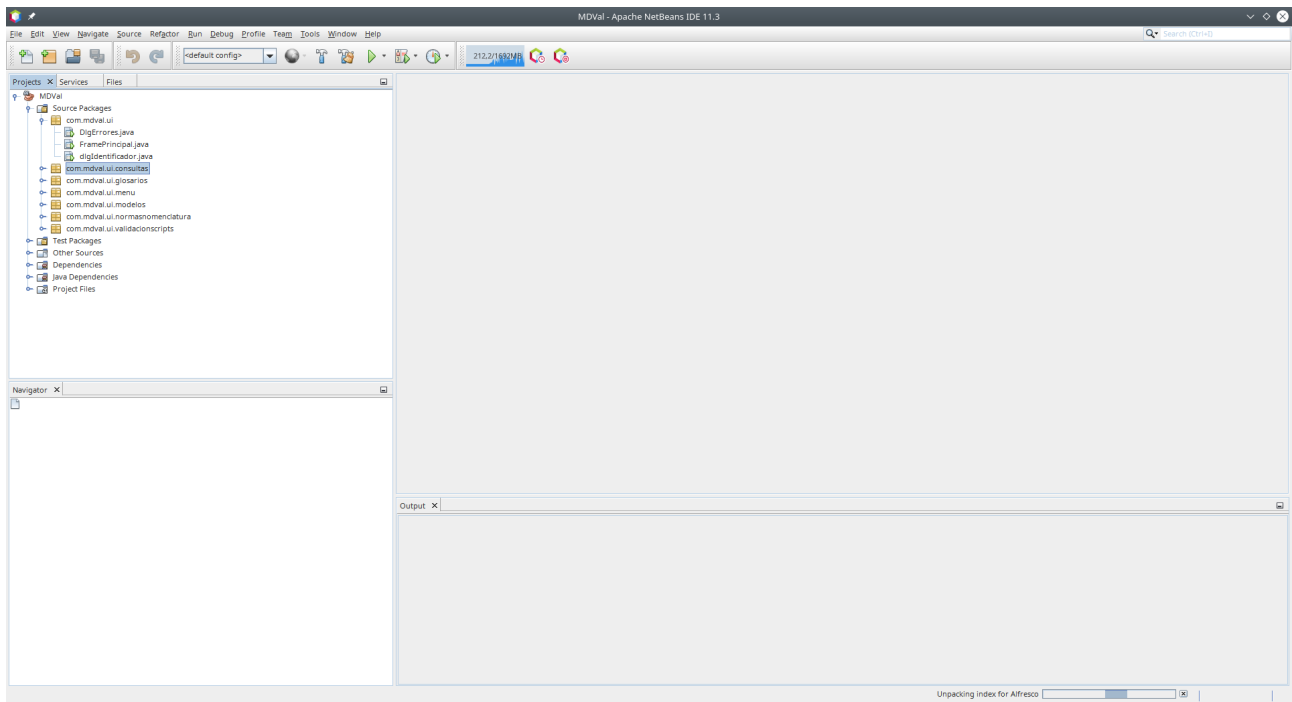
Requisitos

- **Apache NetBeans 11.3** o superior, para la modificación visual del diseño.
- **Eclipse IDE for Enterprise Java Developers**, versión 2020-06 (4.16.0) o superior.
- Código fuente del diseño de pantallas.
- Código fuente del aplicativo.

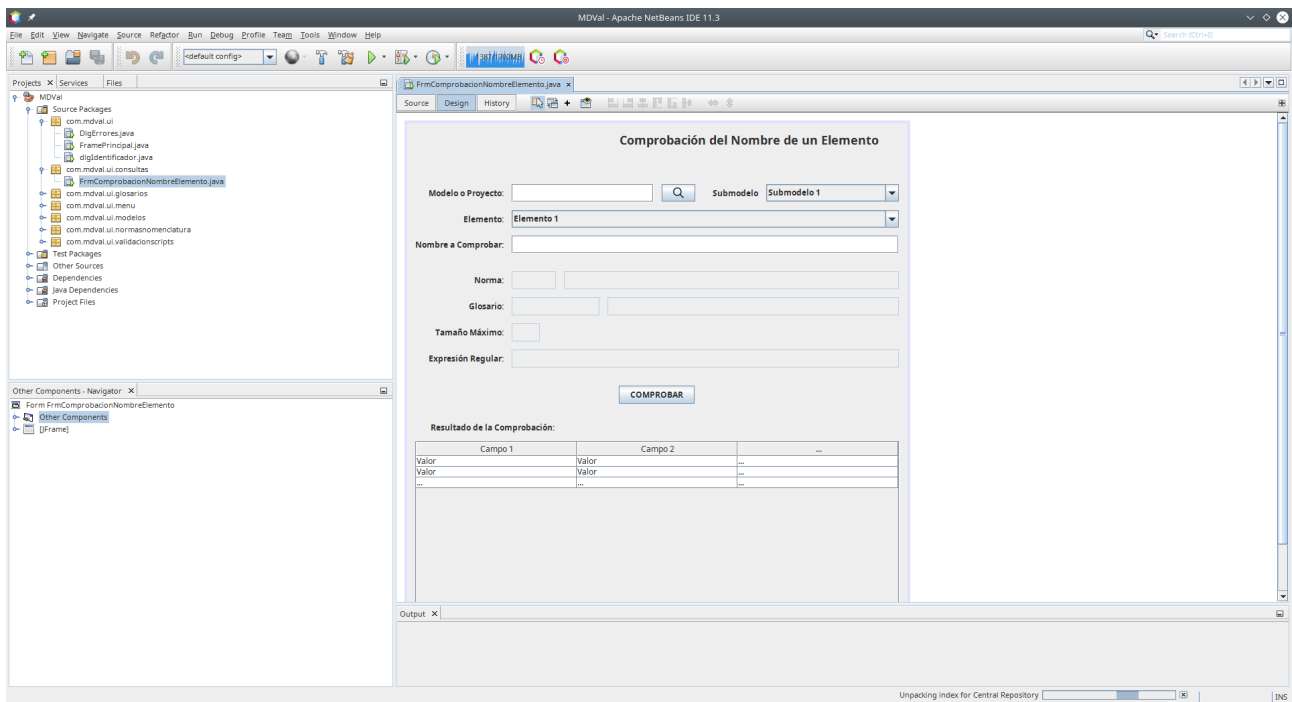
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Protocolo de modificación

Abrir Netbeans y cargar el proyecto MDVAL-pantallas.

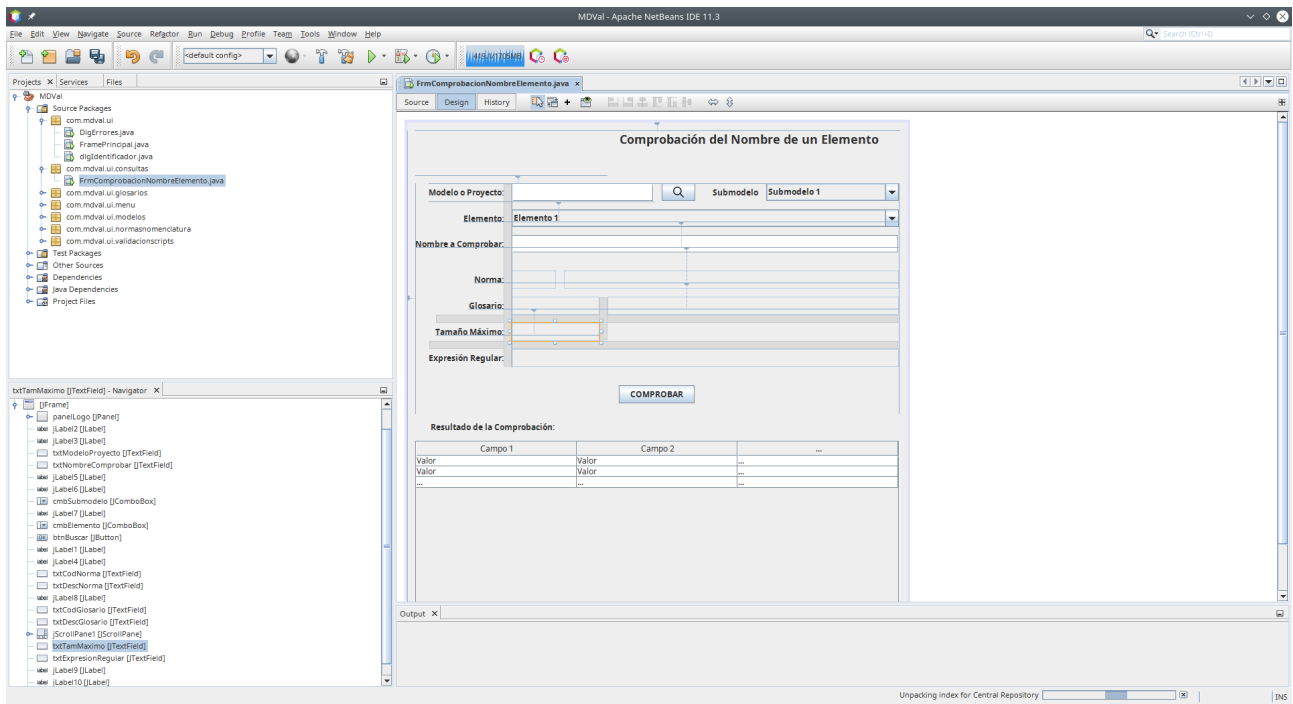


Cargar la pantalla deseada

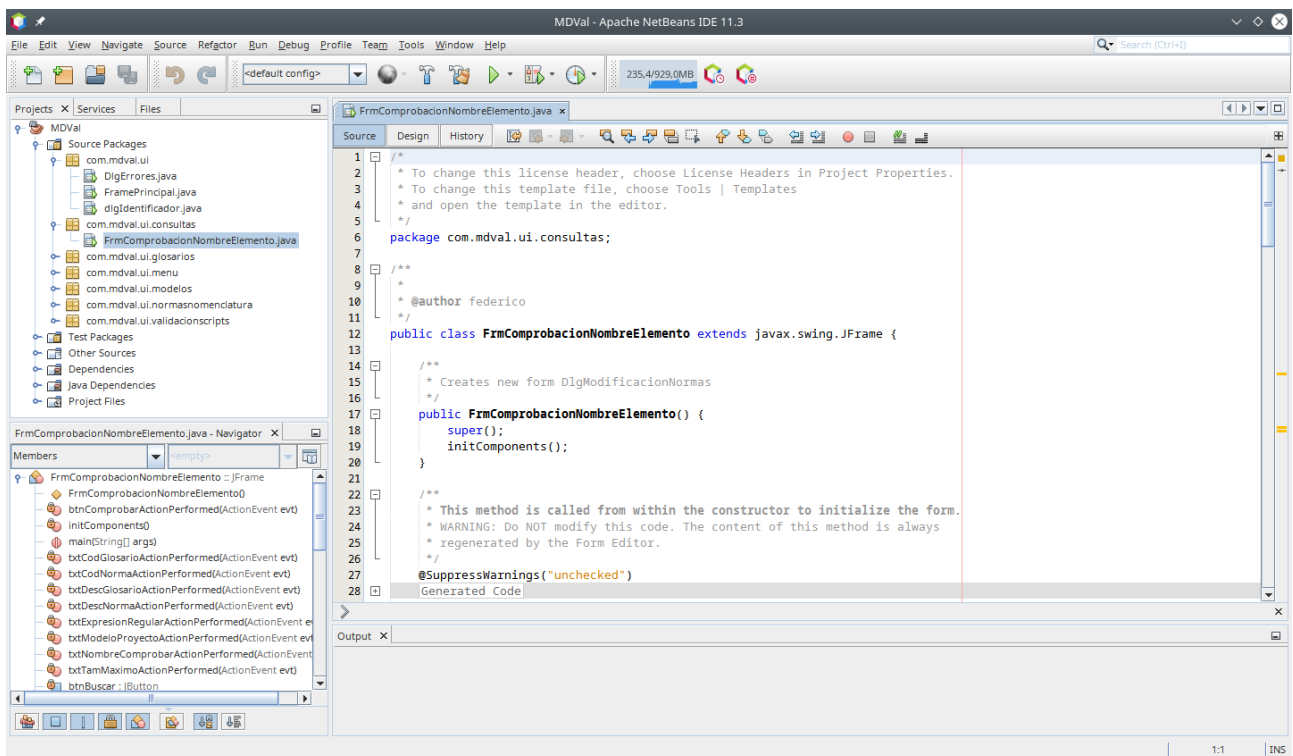


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Modificar la pantalla deseada en la ventana de diseño



Cambiar a la vista del código fuente de la pantalla:



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Copiar todo el contenido del método **initComponents** (sólo el contenido, la declaración del método no) y pegarlo en el método **setupComponents** de la pantalla afectada, se ve en el siguiente ejemplo:

```
panelLogo = new javax.swing.JPanel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

txtModeloProyecto = new javax.swing.JTextField();

txtNombreComprobar = new javax.swing.JTextField();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

cmbSubmodelo = new javax.swing.JComboBox<>();

jLabel7 = new javax.swing.JLabel();

cmbElemento = new javax.swing.JComboBox<>();

btnBuscar = new javax.swing.JButton();

jLabel1 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

txtCodNorma = new javax.swing.JTextField();

txtDescNorma = new javax.swing.JTextField();

jLabel8 = new javax.swing.JLabel();

txtCodGlosario = new javax.swing.JTextField();

txtDescGlosario = new javax.swing.JTextField();

jScrollPane1 = new javax.swing.JScrollPane();

tblValoresPosibles = new javax.swing.JTable();
```

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```
txtTamMaximo = new javax.swing.JTextField();
```

```
txtExpresionRegular = new javax.swing.JTextField();
```

```
jLabel9 = new javax.swing.JLabel();
```

```
jLabel10 = new javax.swing.JLabel();
```

```
jPanel1 = new javax.swing.JPanel();
```

```
btnComprobar = new javax.swing.JButton();
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
```

```
panelLogo.setPreferredSize(new java.awt.Dimension(286, 63));
```

```
javax.swing.GroupLayout panelLogoLayout = new  
javax.swing.GroupLayout(panelLogo);
```

```
panelLogo.setLayout(panelLogoLayout);
```

```
panelLogoLayout.setHorizontalGroup(
```

```
panelLogoLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
    .addGap(0, 286, Short.MAX_VALUE)
```

```
);
```

```
panelLogoLayout.setVerticalGroup(
```

```
panelLogoLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
    .addGap(0, 67, Short.MAX_VALUE)
```



```
);
```

```
jLabel2.setText("Modelo o Proyecto:");
```

```
jLabel3.setText("Nombre a Comprobar:");
```

```
txtModeloProyecto.setPreferredSize(new java.awt.Dimension(4, 27));
```

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

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

```
        txtModeloProyectoActionPerformed(evt);
```

```
    }
```

```
});
```

```
txtNombreComprobar.setMinimumSize(new java.awt.Dimension(4, 27));
```

```
txtNombreComprobar.setPreferredSize(new java.awt.Dimension(64, 27));
```

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

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

```
        txtNombreComprobarActionPerformed(evt);
```

```
    }
```

```
});
```

```
jLabel5.setText("Resultado de la Comprobación:");
```

```
jLabel6.setText("Submodelo");
```

```
cmbSubmodelo.setModel(new javax.swing.DefaultComboBoxModel<>(new String[]  
{ "Submodelo 1", "Submodelo 2", "Submodelo 3", "Submodelo 4" }));
```

```
jLabel7.setText("Elemento:");
```

```
cmbElemento.setModel(new javax.swing.DefaultComboBoxModel<>(new String[]  
{ "Elemento 1", "Elemento 2", "Elemento 3", "Elemento 4" }));
```

```
btnBuscar.setIcon(new  
javax.swing.ImageIcon(getClass().getResource("/loupe.png"))); // NOI18N
```

```
jLabel1.setFont(new java.awt.Font("Dialog", 1, 18)); // NOI18N
```

```
jLabel1.setText("Comprobación del Nombre de un Elemento");
```

```
jLabel4.setText("Norma:");
```

```
txtCodNorma.setEditable(false);
```

```
txtCodNorma.setEnabled(false);
```

```
txtCodNorma.setPreferredSize(new java.awt.Dimension(4, 27));
```

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

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```
public void actionPerformed(java.awt.event.ActionEvent evt) {  
  
    txtCodNormaActionPerformed(evt);  
  
}  
  
});  
  
txtDescNorma.setEditable(false);  
  
txtDescNorma.setEnabled(false);  
  
txtDescNorma.setMinimumSize(new java.awt.Dimension(4, 27));  
txtDescNorma.setPreferredSize(new java.awt.Dimension(64, 27));  
txtDescNorma.addActionListener(new java.awt.event.ActionListener() {  
  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
  
        txtDescNormaActionPerformed(evt);  
  
    }  
  
});  
  
jLabel8.setText("Glosario:");  
  
txtCodGlosario.setEditable(false);  
  
txtCodGlosario.setEnabled(false);  
  
txtCodGlosario.setPreferredSize(new java.awt.Dimension(4, 27));  
txtCodGlosario.addActionListener(new java.awt.event.ActionListener() {  
  
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```

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```
txtCodGlosarioActionPerformed(evt);

}

});

txtDescGlosario.setEditable(false);

txtDescGlosario.setEnabled(false);

txtDescGlosario.setMinimumSize(new java.awt.Dimension(4, 27));

txtDescGlosario.setPreferredSize(new java.awt.Dimension(64, 27));

txtDescGlosario.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        txtDescGlosarioActionPerformed(evt);

    }

});

tblValoresPosibles.setModel(new javax.swing.table.DefaultTableModel(

    new Object [][] {

        {"Valor", "Valor", "..."},

        {"Valor", "Valor", "..."},

        {"...", "...", "..."}

    },

    new String [] {

        "Campo 1", "Campo 2", "..."
```

```
    }  
  
){  
  
    boolean[] canEdit = new boolean [] {  
  
        false, false, false  
  
    };  
  
    public boolean isCellEditable(int rowIndex, int columnIndex) {  
  
        return canEdit [columnIndex];  
  
    }  
  
});  
  
jScrollPane1.setViewportViewView(tblValoresPosibles);  
  
txtTamMaximo.setEditable(false);  
  
txtTamMaximo.setEnabled(false);  
  
txtTamMaximo.setPreferredSize(new java.awt.Dimension(4, 27));  
  
txtTamMaximo.addActionListener(new java.awt.event.ActionListener() {  
  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
  
        txtTamMaximoActionPerformed(evt);  
  
    }  
  
});  
  
txtExpresionRegular.setEditable(false);
```

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```
txtExpresionRegular.setEnabled(false);

txtExpresionRegular.setMinimumSize(new java.awt.Dimension(4, 27));

txtExpresionRegular.setPreferredSize(new java.awt.Dimension(64, 27));

txtExpresionRegular.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        txtExpresionRegularActionPerformed(evt);

    }

});

jLabel9.setText("Tamaño Máximo:");

jLabel10.setText("Expresión Regular:");

jPanel1.setLayout(new java.awt.FlowLayout(java.awt.FlowLayout.CENTER, 15, 15));

btnComprobar.setText("COMPROBAR");

btnComprobar.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        btnComprobarActionPerformed(evt);

    }

});

jPanel1.add(btnComprobar);
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
  
getContentPane().setLayout(layout);  
  
layout.setHorizontalGroup(  
  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
  
        .addGroup(layout.createSequentialGroup()  
  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addGroup(layout.createSequentialGroup()  
  
                    .addComponent(jScrollPane1)  
  
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                        .addGroup(layout.createSequentialGroup()  
  
                            .addComponent(panelLogo,  
                                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()  
  
                                    .addComponent(jLabel1,  
                                        javax.swing.GroupLayout.PREFERRED_SIZE, 418,
```

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```
javax.swing.GroupLayout.PREFERRED_SIZE)
```

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

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

```
        .addComponent(jPanel1,  
javax.swing.GroupLayout.PREFERRED_SIZE, 722,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
        .addGroup(layout.createSequentialGroup())
```

```
        .addGroup(layout.createParallelGroup(javax.swing.GroupLa  
yout.Alignment.TRAILING)
```

```
        .addComponent(jLabel7)
```

```
        .addComponent(jLabel3)
```

```
        .addComponent(jLabel2)
```

```
        .addComponent(jLabel4)
```

```
        .addComponent(jLabel8)
```

```
        .addComponent(jLabel9)
```

```
        .addComponent(jLabel10))
```

```
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlac  
ement.RELATED)
```

```
        .addGroup(layout.createParallelGroup(javax.swing.GroupLa  
yout.Alignment.LEADING, false)
```

```
        .addGroup(layout.createSequentialGroup())
```

```
        .addComponent(txtModeloProyecto,  
javax.swing.GroupLayout.PREFERRED_SIZE, 212,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```


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.addPreferredGap(javax.swing.LayoutStyle.Component
Placement.UNRELATED)

.addComponent(btnBuscar)

.addPreferredGap(javax.swing.LayoutStyle.Component
Placement.RELATED, 26, Short.MAX_VALUE)

.addComponent(jLabel6)

.addPreferredGap(javax.swing.LayoutStyle.Component
Placement.RELATED)

.addComponent(cmbSubmodelo,
javax.swing.GroupLayout.PREFERRED_SIZE, 198,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addComponent(cmbElemento, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(txtNombreComprobar,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

.addGroup(layout.createSequentialGroup())

.addComponent(txtCodNorma,
javax.swing.GroupLayout.PREFERRED_SIZE, 66,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.Component
Placement.UNRELATED)

.addComponent(txtDescNorma,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

.addComponent(txtExpresionRegular,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

.addGroup(layout.createSequentialGroup())

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```
.addGroup(layout.createParallelGroup(javax.swing.Gro
upLayout.Alignment.TRAILING, false)

        .addComponent(txtTamMaximo,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        .addComponent(txtCodGlosario,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, 131, Short.MAX_VALUE))

        .addPreferredGap(javax.swing.LayoutStyle.Component
Placement.UNRELATED)

        .addComponent(txtDescGlosario,
javax.swing.GroupLayout.PREFERRED_SIZE, 435,
javax.swing.GroupLayout.PREFERRED_SIZE))))))

        .addGap(1, 1, 1)))

        .addGroup(layout.createSequentialGroup())

        .addGap(35, 35, 35)

        .addComponent(jLabel5)))

        .addGap(0, 0, Short.MAX_VALUE)))

        .addContainerGap())

);

layout.setVerticalGroup(

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

        .addGroup(layout.createSequentialGroup())

            .addContainerGap()

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
```

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```
.addComponent(jLabel1)
```

```
.addComponent(panelLogo, javax.swing.GroupLayout.PREFERRED_SIZE,  
67, javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addGap(12, 12, 12)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA  
DING)
```

```
.addComponent(btnBuscar)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.B  
ASELINE)
```

```
.addComponent(txtModeloProyecto,  
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addComponent(jLabel2))
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.B  
ASELINE)
```

```
.addComponent(jLabel6)
```

```
.addComponent(cmbSubmodelo,  
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE)))
```

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

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS  
ELINE)
```

```
.addComponent(jLabel7)
```

```
.addComponent(cmbElemento,  
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

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

)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 27, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(txtNombreComprobar, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(26, 26, 26)

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

.addComponent(jLabel4)

.addComponent(txtCodNorma, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(txtDescNorma, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

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

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

.addComponent(jLabel8)

.addComponent(txtCodGlosario, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(txtDescGlosario, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)

.addComponent(txtTamMaximo,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel9))

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BAS
ELINE)

.addComponent(txtExpresionRegular,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel10))

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

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

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

.addComponent(jLabel5)

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

.addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 293,
Short.MAX_VALUE)

.addContainerGap())
```

```
);
```

```
pack();
```

Del código hay que eliminar una serie de declaraciones. La primera que hay que quitar es la línea de creación de **panelLogo**, ya que el logo se crea en la clase de la que hereda esta, **FrameSupport**. Hay que quitar también las declaraciones **addActionListener** (si las tuviese), ya que se crearán en el método específico. Las declaraciones son similares a la siguiente:

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

También hay que eliminar las declaraciones referentes a la creación de modelos, si la ventana dispone de tablas o combos:

```
tblValoresPosibles.setModel(new javax.swing.table.DefaultTableModel(  
  
    new Object [][] {  
  
        {"Valor", "Valor", "..."},  
  
        {"Valor", "Valor", "..."},  
  
        {"...", "...", "..."}  
  
    },  
  
    new String [] {  
  
        "Campo 1", "Campo 2", "..."  
  
    }  
  
){  
  
    boolean[] canEdit = new boolean [] {
```

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```
        false, false, false

    };

    public boolean isCellEditable(int rowIndex, int columnIndex) {

        return canEdit [columnIndex];

    }

});
```

Quitar la última línea **pack()**;, ya que esta instrucción se efectúa en la clase de la que hereda.

Por último, del código hay que quitar los prefijos de paquetes **javax.swing** y **java.awt**, ya que se colocarán en la parte superior del archivo .java de la clase, en la declaración de imports (en Eclipse hacer CTRL+SHIFT+O, organize imports). Una vez hecho esto, cambiar las declaraciones JTable por TableSupport, si la tabla tuviera scroll, usar la siguiente declaración (ejemplo):

```
tblValidaParticula = new TableSupport(Boolean.FALSE);
```