

“AÑO DE LA UNIDAD, LA PAZ Y EL DESARROLLO”

UNIVERSIDAD PERUANA LOS ANDES

FACULTAD DE INGENIERÍA

ESCUELA PROFESIONAL DE SISTEMAS Y COMPUTACIÓN



PROYECTOS DEL CURSO DE ARQUITECTURA DE SOFTWARE

Integrantes:

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Materia: ARQUITECTURA DE SOFTWARE

Sección: B1

Ciclo: VII

2024

Huancayo-Perú

PROYECTO 02

Enunciado del proyecto

Título del proyecto: Aplicación de Gestión de Productos

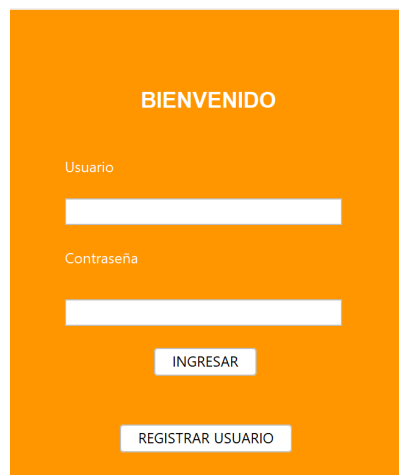
Descripción:

La aplicación permite a los usuarios autenticarse mediante un sistema de login para acceder a un sistema de gestión de productos. Los usuarios pueden agregar, eliminar y ver productos almacenados en la aplicación. Esta herramienta está diseñada para facilitar la administración de inventarios y permitir el control de acceso.

Requerimientos funcionales

Login de usuario:

Los usuarios deben ingresar sus credenciales (nombre de usuario y contraseña) para acceder a la aplicación.



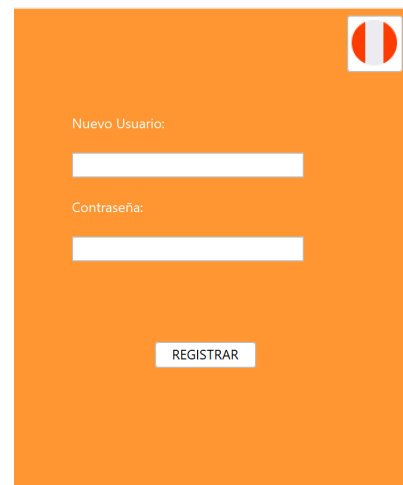
BIENVENIDO


Usuario

Contraseña

INGRESAR

REGISTRAR USUARIO





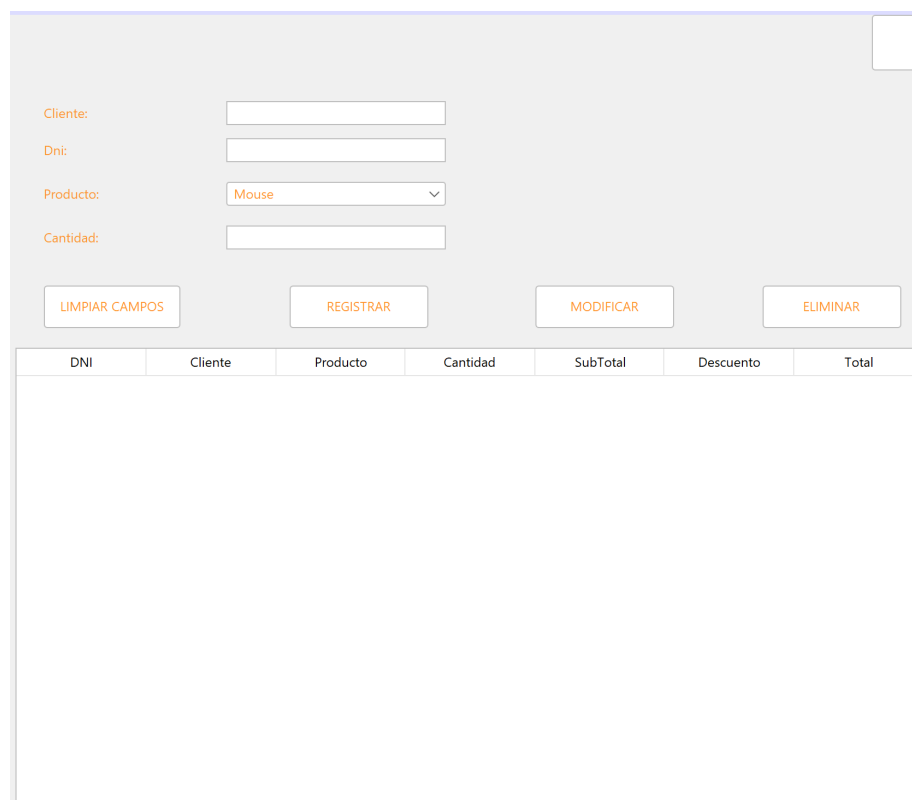
Nuevo Usuario:

Contraseña:

REGISTRAR

Agregar producto:

Los usuarios autenticados pueden agregar productos al inventario, especificando atributos como nombre, descripción y precio.



Cliente:

Dni:

Producto:

Cantidad:

LIMPIAR CAMPOS REGISTRAR MODIFICAR ELIMINAR

DNI	Cliente	Producto	Cantidad	SubTotal	Descuento	Total
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Los usuarios pueden seleccionar productos y eliminarlos del sistema.

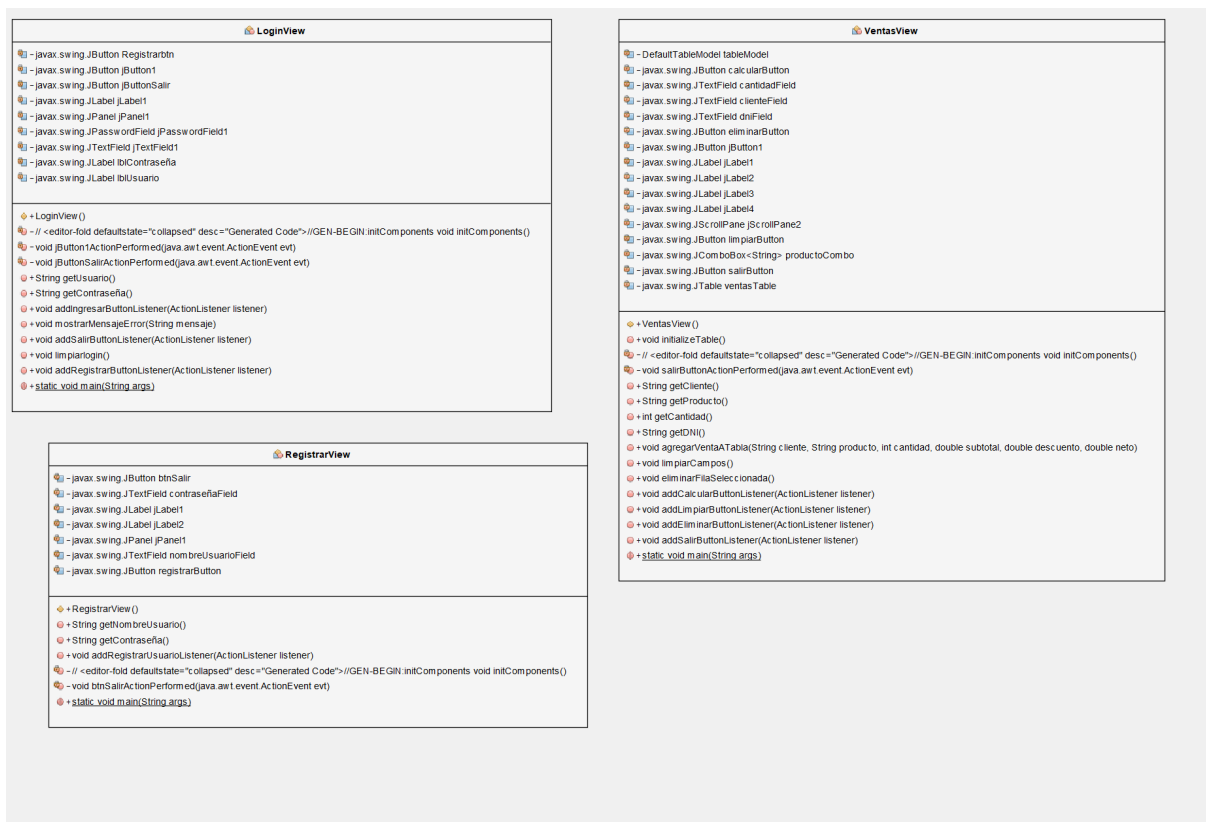
Ver lista de productos:

Los usuarios pueden ver todos los productos almacenados en el sistema.

Editar producto (opcional):

Los usuarios pueden modificar los detalles de un producto existente.

Diagrama de clases



Código de la aplicación

```
import java.awt.event.ActionListener;
import java.time.LocalDateTime;
import java.time.format.DateTimeFormatter;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author re988
 */
public class VentasView extends javax.swing.JFrame {

    private DefaultTableModel tableModel;
    // Constructor u otros métodos de inicialización de VentasView

    public void initializeTable() {
        // Suponiendo que ventasTable ya está inicializada con sus columnas y demás
        // configuraciones
        tableModel = (DefaultTableModel) ventasTable.getModel();
    }

    /**
     * Creates new form Vista
     */
    public VentasView() {
        initComponents();
        initializeTable();
    }

    /**
     * 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() {

        clienteField = new javax.swing.JTextField();
        productoCombo = new javax.swing.JComboBox<>();
        cantidadField = new javax.swing.JTextField();
        calcularButton = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
    }
}
```

```

jScrollPane2 = new javax.swing.JScrollPane();
ventasTable = new javax.swing.JTable();
eliminarButton = new javax.swing.JButton();
limpiarButton = new javax.swing.JButton();
salirButton = new javax.swing.JButton();
jButton1 = new javax.swing.JButton();
jLabel4 = new javax.swing.JLabel();
dniField = new javax.swing.JTextField();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setUndecorated(true);

clienteField.setForeground(new java.awt.Color(255, 153, 51));

productoCombo.setForeground(new java.awt.Color(255, 153, 51));
productoCombo.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
"Mouse", "Teclado", "Impresora", "Monitor", "Parlantes" }));

cantidadField.setForeground(new java.awt.Color(255, 153, 51));

calcularButton.setForeground(new java.awt.Color(255, 153, 51));
calcularButton.setText("REGISTRAR");

jLabel1.setForeground(new java.awt.Color(255, 153, 51));
jLabel1.setText("Cliente:");

jLabel2.setForeground(new java.awt.Color(255, 153, 51));
jLabel2.setText("Producto:");

jLabel3.setForeground(new java.awt.Color(255, 153, 51));
jLabel3.setText("Cantidad:");

jScrollPane2.setForeground(new java.awt.Color(255, 153, 51));

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

        },
    new String [] {
        "DNI", "Cliente", "Producto", "Cantidad", "SubTotal", "Descuento", "Total"
    }
) {
    boolean[] canEdit = new boolean [] {
        false, false, false, false, false, false, false
    };

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

```

```

    }
});
jScrollPane2.setViewportViewView(ventasTable);

eliminarButton.setForeground(new java.awt.Color(255, 153, 51));
eliminarButton.setText("ELIMINAR");

limpiarButton.setForeground(new java.awt.Color(255, 153, 51));
limpiarButton.setText("LIMPIAR CAMPOS");

salirButton.setForeground(new java.awt.Color(255, 153, 51));
salirButton.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        salirButtonActionPerformed(evt);
    }
});

jButton1.setForeground(new java.awt.Color(255, 153, 51));
jButton1.setText("MODIFICAR");

jLabel4.setForeground(new java.awt.Color(255, 153, 51));
jLabel4.setText("Dni:");

dniField.setForeground(new java.awt.Color(255, 153, 51));

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jScrollPane2)
            .addGap(10, 10, 10)
            .addGroup(layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addGap(32, 32, 32)
            )
        )
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addGap(116, 116, 116)
            )
        )
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addGap(10, 10, 10)
            )
        )
);

```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(cantidadField)
            .addComponent(dniField,
javax.swing.GroupLayout.PREFERRED_SIZE, 201,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addComponent(clienteField,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.PREFERRED_SIZE, 201,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(productoCombo,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.PREFERRED_SIZE, 201,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(0, 0, Short.MAX_VALUE))
.addGroup(layout.createSequentialGroup()
            .addComponent(limpiarButton)
            .addGap(100, 100, 100)
            .addComponent(calcularButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 127,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
98, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addComponent(salirButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 54,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 127,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(81, 81, 81)
                .addComponent(eliminarButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 127,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(27, 27, 27))))))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addComponent(salirButton, javax.swing.GroupLayout.PREFERRED_SIZE, 51,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(28, 28, 28)

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

```



```

        .addComponent(clienteField, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel1))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(dniField, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel4))
        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2)
            .addComponent(productoCombo,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3)
            .addComponent(cantidadField, javax.swing.GroupLayout.PREFERRED_SIZE,
22, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 33,
Short.MAX_VALUE)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(limpiarButton, javax.swing.GroupLayout.PREFERRED_SIZE,
39, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(calcularButton, javax.swing.GroupLayout.PREFERRED_SIZE,
39, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(eliminarButton, javax.swing.GroupLayout.PREFERRED_SIZE,
39, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 39,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(20, 20, 20))
    );

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

private void salirButtonActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
}

```

```
public String getCiente() {
    return clienteField.getText();
}

public String getProducto() {
    return (String) productoCombo.getSelectedItem();
}

public int getCantidad() {
    try {
        return Integer.parseInt(cantidadField.getText());
    } catch (NumberFormatException e) {
        return 0; // Default to 0 if parsing fails
    }
}

public String getDNI() {
    return dniField.getText();
}

public void agregarVentaATabla(String cliente, String producto, int cantidad,
    double subtotal, double descuento, double neto) {
    // Implementa la lógica para agregar la venta a la tabla
}

public void limpiarCampos() {
    clienteField.setText("");
    productoCombo.setSelectedIndex(0);
    cantidadField.setText("");
    dniField.setText("");
}

public void eliminarFilaSeleccionada() {
    // Implementa la lógica para eliminar la fila seleccionada de la tabla
}

public void addCalcularButtonListener(ActionListener listener) {
    calcularButton.addActionListener(listener);
}

public void addLimpiarButtonListener(ActionListener listener) {
    limpiarButton.addActionListener(listener);
}

public void addEliminarButtonListener(ActionListener listener) {
    eliminarButton.addActionListener(listener);
}
```

```

public void addSalirButtonListener(ActionListener listener) {
    salirButton.addActionListener(listener);
}

```

```

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(VentasView.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(VentasView.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(VentasView.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(VentasView.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    }
}
//</editor-fold>
//</editor-fold>

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

```

```
});  
}
```

```
// Variables declaration - do not modify  
private javax.swing.JButton calcularButton;  
private javax.swing.JTextField cantidadField;  
private javax.swing.JTextField clienteField;  
private javax.swing.JTextField dniField;  
private javax.swing.JButton eliminarButton;  
private javax.swing.JButton jButton1;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JScrollPane jScrollPane2;  
private javax.swing.JButton limpiarButton;  
private javax.swing.JComboBox<String> productoCombo;  
private javax.swing.JButton salirButton;  
private javax.swing.JTable ventasTable;  
// End of variables declaration  
}
```