MANUAL TÉCNICO

PRESENTACIÓN

El siguiente manual se ha desarrollado con la finalidad de dar a conocer la información necesario para realizar el mantenimiento y exploración del sistema Cobra Kai el cual consta de un sistema de autenticación y un modulo de productos, clientes y ventas. Realizado en el lenguaje JAVA aplicando los conceptos vistos en clase.

Proyect1

```
package com.mycompany.proyect1;

import com.mycompany.proyect1.BackEnd.util.Util;
import com.mycompany.proyect1.FrontEnd.Login;

/**
 *
 */
public class Proyect1 {


   public static void main(String[] args) {


      java.awt.EventQueue.invokeLater(new Runnable() {
         public void run() {

            new Login().setVisible(true);
         }
      });



   }

}
```

Este código establece un punto de entrada para una aplicación Java que lanza una ventana de inicio de sesión (Login). La GUI se crea y se muestra de manera segura en el hilo de despacho de eventos

Util.java

```
package com.mycompany.proyect1.BackEnd.util;

import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;

import javax.swing.JFileChooser;
import javax.swing.JOptionPane;
import javax.swing.filechooser.FileNameExtensionFilter;

/**
 *

 */
public class Util {
   private JFileChooser miBuscador;
   String RUTA;
   private String rutaFichero = "src/main/java/com/practica2/ficheros/";
   public static String lecturaGraficos="";
   public static String miRuta="";

   public String fileChoser() {

      String textoLeido="";
      miBuscador = new JFileChooser(".");
      FileNameExtensionFilter filtro = new FileNameExtensionFilter("Archivos de texto (.txt)",
"txt");
```

```
    miBuscador.setFileFilter(filtro);

    int valor = miBuscador.showOpenDialog(miBuscador);
    if (valor == JFileChooser.APPROVE_OPTION) {
      textoLeido="";
      textoLeido = leerArchivoExterior(miBuscador.getSelectedFile().getAbsolutePath());
      System.out.println(miBuscador.getSelectedFile().getAbsolutePath());

    }
    return textoLeido;
  }

  public String obtenerRutaCarpeta() {
    JFileChooser miBuscador = new JFileChooser(".");
    miBuscador.setFileSelectionMode(JFileChooser.DIRECTORIES_ONLY); // Solo
seleccionar directorios

    int valor = miBuscador.showOpenDialog(miBuscador);
    if (valor == JFileChooser.APPROVE_OPTION) {
      String rutaCarpeta = miBuscador.getSelectedFile().getAbsolutePath();
      System.out.println(rutaCarpeta);
      return rutaCarpeta;
    }

    return null; // Retorna null si la selección fue cancelada
  }


  public String leerArchivoExterior(String ruta) {

    FileReader lector = null;
    BufferedReader br = null;
    this.RUTA = ruta;

    String lectura = "";
    String contenido = "";

    try {
      lector = new FileReader(ruta);
      br = new BufferedReader(lector);
      while ((lectura = br.readLine()) != null) {
        contenido += lectura + "\n";
```

```
            }
            br.close();
            lector.close();
        } catch (FileNotFoundException e) {
            JOptionPane.showMessageDialog(null, "No se encontro el archivo");
        } catch (IOException e) {
            JOptionPane.showMessageDialog(null, "Error al leer el archivo");
        }
        return contenido;
    }

    public void escribirArchivo(String texto, String ruta, boolean reescribir) {

        System.out.println(" rutas firchero " + ruta);
        try {

            File archivo = new File( ruta);
            if (!archivo.exists()) {
                archivo.createNewFile();
            }
            FileWriter escritor = new FileWriter(archivo, reescribir);
            BufferedWriter buffer = new BufferedWriter(escritor);
            buffer.write(" \n"+texto);
            buffer.close();
            escritor.close();

            // mensaje
            JOptionPane.showMessageDialog(null, "Guardado con exito");

        } catch (IOException error) {
            System.out.println(error);

            // mensaje error
            JOptionPane.showMessageDialog(null, "Error al guardar datos");

        }
    }


}
```

Eta clase Util proporciona funcionalidades para abrir diálogos de selección de archivos y carpetas, leer contenido de archivos de texto y escribir contenido en archivos de texto. Es

una herramienta útil para manejar operaciones básicas de entrada/salida de archivos en aplicaciones Java con interfaces gráficas.

Homme.java

```
package com.mycompany.proyect1.FrontEnd;

import com.mycompany.proyect1.FrontEnd.Cliente.Clientes;
import com.mycompany.proyect1.FrontEnd.Producto.Productos;

/**
 *
 * @author ajolo
 */
public class Homme extends javax.swing.JFrame {

    /**
     * Creates new form Homme
     */


    public Homme() {
        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() {

        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
```

```
jButton1 = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
jTable1 = new javax.swing.JTable();
jButton2 = new javax.swing.JButton();
jButton3 = new javax.swing.JButton();
jButton4 = new javax.swing.JButton();
jButton5 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setText("Clientes Registrados");

jButton1.setText("Salir");
jButton1.setToolTipText("");
jButton1.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton1ActionPerformed(evt);
   }
});

jTable1.setModel(new javax.swing.table.DefaultTableModel(
   new Object [][] {
      {null, null, null},
      {null, null, null},
      {null, null, null},
      {null, null, null}
   },
   new String [] {
      "Cliente", "Nit", "Compras"
   }
));
jTable1.setCellSelectionEnabled(true);
jScrollPane1.setViewportView(jTable1);

jButton2.setText("Guardar info.");
jButton2.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton2ActionPerformed(evt);
   }
});

jButton3.setText("Módulo Clientes");
jButton3.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```
            jButton3ActionPerformed(evt);
        }
    });

    jButton4.setText("Módulo Productos");
    jButton4.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton4ActionPerformed(evt);
        }
    });

    jButton5.setText("Módulo Ventas");
    jButton5.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton5ActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(58, 58, 58)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
                .addComponent(jButton1)
                .addComponent(jButton2)
                .addComponent(jLabel1)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
489, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG, false)
                        .addComponent(jButton4, javax.swing.GroupLayout.DEFAULT_SIZE, 186,
Short.MAX_VALUE)
                        .addComponent(jButton3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jButton5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))))
            .addContainerGap(46, Short.MAX_VALUE))
```

```
    );
    jPanel1Layout.setVerticalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(45, 45, 45)
        .addComponent(jLabel1)
        .addGap(26, 26, 26)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
          .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 253,
javax.swing.GroupLayout.PREFERRED_SIZE)
          .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jButton4)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(jButton3)
            .addGap(17, 17, 17)
            .addComponent(jButton5)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jButton2)
        .addGap(30, 30, 30)
        .addComponent(jButton1)
        .addContainerGap(40, Short.MAX_VALUE))
    );

    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(jPanel1, 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(jPanel1, 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 jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

   // regresar
   Login log = new Login();
   log.setVisible(true );

   this.dispose();


}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
   // TODO add your handling code here:
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
   // Clientes

   Clientes clie = new Clientes();
   clie.setVisible(true);
   this.dispose();


}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

   // productos

   Productos pros = new Productos();

   pros.setVisible(true );
   this.dispose();


}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

// ventas

}
```

```
    /**
     * @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(Homme.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Homme.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Homme.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Homme.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        }
        //</editor-fold>

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

```
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JButton jButton5;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable jTable1;
    // End of variables declaration
}
```

Esta clase Homme crea una ventana con una tabla para mostrar clientes registrados y varios botones para realizar diferentes acciones, como abrir módulos adicionales (clientes, productos, ventas) y salir de la aplicación. Se encarga de la inicialización y manejo de eventos para la interfaz gráfica de usuario.

Login.java

```
package com.mycompany.proyect1.FrontEnd;

import com.mycompany.proyect1.BackEnd.util.Util;

/**
 *
 */


public class Login extends javax.swing.JFrame {

   private String user  = "sensei_201930494";
   private String password ="ipc1_201930494";



   /**
    * Creates new form Login
    */
   public Login() {

      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() {

    jLabel1 = new javax.swing.JLabel();
    jButton1 = new javax.swing.JButton();
    jTextField3 = new javax.swing.JTextField();
    jTextField4 = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setFont(new java.awt.Font("MesloLGS Nerd Font", 0, 24)); // NOI18N
    jLabel1.setText("Login Cobra Kai Dojo");

    jButton1.setText("Iniciar Sesion");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

    jTextField3.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField3ActionPerformed(evt);
        }
    });

    jTextField4.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField4ActionPerformed(evt);
        }
    });

    jLabel2.setText("Constraseña: ");

    jLabel3.setText("Usuario");

    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()
              .addGap(54, 54, 54)
              .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 295,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(layout.createSequentialGroup()
              .addGap(114, 114, 114)
              .addComponent(jButton1))
            .addGroup(layout.createSequentialGroup()
              .addGap(97, 97, 97)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
                  .addComponent(jTextField3, javax.swing.GroupLayout.DEFAULT_SIZE, 206,
Short.MAX_VALUE)
                  .addComponent(jTextField4))
                .addComponent(jLabel3))))
          .addContainerGap(57, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        .addGap(25, 25, 25)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 109,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(25, 25, 25)
        .addComponent(jLabel3)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(39, 39, 39)
        .addComponent(jLabel2)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(106, 106, 106)
        .addComponent(jButton1)
        .addContainerGap(193, Short.MAX_VALUE))
    );
```

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

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    ///  boton para inciar sesion

    if (jTextField3.getText().equals(user) && jTextField4.getText().equals(password)  ){

        System.out.println(" ya logramos iniciar sesion ");

        Homme h = new Homme();

        h.setVisible(true);

        this.dispose();


    }else {

        System.out.println(" Error de datos " );

    }


}

private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {



}

private void jTextField4ActionPerformed(java.awt.event.ActionEvent evt) {







}


// Variables declaration - do not modify
```

```
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JTextField jTextField3;
    private javax.swing.JTextField jTextField4;
    // End of variables declaration
}
```

La clase Login proporciona una interfaz básica de inicio de sesión para la aplicación. Utiliza componentes de Java Swing para crear la GUI y maneja eventos de acción para la autenticación de usuarios.

Clientes.java

```
package com.mycompany.proyect1.FrontEnd.Cliente;

import com.mycompany.proyect1.FrontEnd.Homme;

/**
 *
 * @author ajolo
 */
public class Clientes extends javax.swing.JFrame {

    /** Creates new form Clientes */
    public Clientes() {
        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() {

        jPanel1 = new javax.swing.JPanel();
        jPanel2 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
```

```
    jButton3 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("Modulo Cliente");

    jButton1.setText("Regresar");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
      }
    });

    jButton2.setText("Editar info Cliente");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
      }
    });

    jButton3.setText("Nuevo Cliente");
    jButton3.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
      }
    });

    javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(
      jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
          .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(96, 96, 96)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
              .addGroup(jPanel2Layout.createSequentialGroup()
                .addComponent(jButton3)
                .addGap(109, 109, 109)
                .addComponent(jButton2))
```

```
                .addComponent(jButton1)))
            .addGroup(jPanel2Layout.createSequentialGroup()
              .addGap(227, 227, 227)
              .addComponent(jLabel1)))
          .addContainerGap(118, Short.MAX_VALUE))
    );
    jPanel2Layout.setVerticalGroup(
      jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(38, 38, 38)
        .addComponent(jLabel1)
        .addGap(83, 83, 83)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASEL
INE)
          .addComponent(jButton3)
          .addComponent(jButton2))
        .addGap(87, 87, 87)
        .addComponent(jButton1)
        .addContainerGap(121, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
```

```
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, 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()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 15, Short.MAX_VALUE))
    );

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

  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    Homme home = new Homme();
    home.setVisible(true);
    this.dispose();



  }

  private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    EditClie edit = new EditClie();
    edit.setVisible(true);
    this.dispose();

  }


  private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

    NuevoClie newClie = new NuevoClie();
    newClie.setVisible(true);
    this.dispose();


  }

  /**
```

```
     * @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(Clientes.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Clientes.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Clientes.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Clientes.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        }
        //</editor-fold>

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

```
    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    // End of variables declaration

}
```

La clase Clientes es parte de la interfaz gráfica de la aplicación y permite la gestión de clientes a través de operaciones como regresar al menú principal, editar la información de clientes existentes y agregar nuevos clientes. El código sigue buenas prácticas de desarrollo de GUI en Java, asegurando que las acciones se manejen correctamente y la interfaz sea intuitiva para el usuario.

EditCliente.java

```
package com.mycompany.proyect1.FrontEnd.Cliente;

import com.mycompany.proyect1.BackEnd.util.Util;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.util.ArrayList;
import javax.swing.JOptionPane;

/**
 *
 * @author ajolo
 */
public class EditClie extends javax.swing.JFrame {


    private ArrayList<String[]> listaClie = new ArrayList<>();

    public EditClie() {
        initComponents();
        cargarProd();
    }

    /**
     * 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() {

    jPanel1 = new javax.swing.JPanel();
    jComboBox1 = new javax.swing.JComboBox<>();
    jLabel1 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jButton2 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jComboBox1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jComboBox1ActionPerformed(evt);
        }
    });

    jLabel1.setText("Edición de Clientes");

    jButton1.setText("Regresar");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

    jLabel2.setText("Nombre");

    jLabel3.setText("Nit");

    jButton2.setText("Guardar");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
            .addGroup(jPanel1Layout.createSequentialGroup()
              .addGap(131, 131, 131)
              .addComponent(jLabel1))
            .addGroup(jPanel1Layout.createSequentialGroup()
              .addGap(96, 96, 96)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
                  .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
186, javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
194, javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(jLabel3)
                  .addComponent(jLabel2)
                  .addGroup(jPanel1Layout.createSequentialGroup()
                    .addComponent(jButton1)
                    .addGap(60, 60, 60)
                    .addComponent(jButton2)))))
          .addContainerGap(191, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(32, 32, 32)
        .addComponent(jLabel1)
        .addGap(24, 24, 24)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(26, 26, 26)
        .addComponent(jLabel3)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASEL
INE)
            .addComponent(jButton1)
```

```
            .addComponent(jButton2))
        .addContainerGap(73, Short.MAX_VALUE))
    );

    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(jPanel1, 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(jPanel1, 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 jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    Clientes clie = new Clientes();
    clie.setVisible(true);

    this.dispose();


  }

  private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    // guardar
    guardarDatosProducto();

  }

  private void guardarDatosProducto() {
    int indiceSeleccionado = jComboBox1.getSelectedIndex();
```

```
      if (indiceSeleccionado >= 0) {
        // Actualizar los datos en la lista

        String[] producto = listaClie.get(indiceSeleccionado);
        producto[1] = jTextField1.getText(); // Actualizar precio


        // Sobrescribir el archivo con los nuevos datos
        try (BufferedWriter bw = new BufferedWriter(new
FileWriter(Util.miRuta+"/clientes.txt"))) {

          for (String[] prod : listaClie) {
            bw.write(String.join(";", prod)); // Escribe cada producto como línea
            bw.newLine();
          }

          JOptionPane.showMessageDialog(this, "Datos guardados exitosamente.");

        } catch (IOException e) {
          JOptionPane.showMessageDialog(this, "Error al guardar los datos: " +
e.getMessage());
        }
      }
    }


    private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {
      mostrarDatosClie();
    }

      private void mostrarDatosClie() {
      int indiceSeleccionado = jComboBox1.getSelectedIndex();
      if (indiceSeleccionado >= 0) {
        String[] producto = listaClie.get(indiceSeleccionado);
        jTextField1.setText(producto[1]); // nit

      }
    }

      private void cargarProd() {

      try (BufferedReader br = new BufferedReader(new
FileReader(Util.miRuta+"/clientes.txt"))) {
```

```
        System.out.print(" ===> "+ Util.miRuta + "/clientes.txt");

        String linea;
        while ((linea = br.readLine()) != null) {
          String[] datos = linea.split(";");
          if (datos.length == 2) {

            System.out.print(datos);

            listaClie.add(datos); // Almacena toda la línea dividida
            jComboBox1.addItem(datos[0]);
          }
        }
      } catch (IOException e) {
        JOptionPane.showMessageDialog(this, "Error al cargar el archivo: " + e.getMessage());
      }

    }


    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JComboBox<String> jComboBox1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JTextField jTextField1;
    // End of variables declaration
}
```

La clase EditClie proporciona una interfaz gráfica para editar la información de los clientes. Permite cargar los datos de un archivo, mostrarlos en la interfaz, editarlos y guardarlos nuevamente en el archivo. Este código es esencial para la gestión de clientes en la aplicación.

NuevoClie.java

```
package com.mycompany.proyect1.FrontEnd.Cliente;

import javax.swing.JOptionPane;

import com.mycompany.proyect1.BackEnd.util.Util;

/**
 *
 * @author ajolo
 */
public class NuevoClie extends javax.swing.JFrame {

    /**
     * Creates new form NuevoClie
     */
    public NuevoClie() {

        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() {

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

```
    jLabel1 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jTextField2 = new javax.swing.JTextField();
    jButton2 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("Edición de Clientes");

    jButton1.setText("Guardar");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
      }
    });

    jLabel2.setText("Nombre");

    jLabel3.setText("Nit");

    jButton2.setText("Regresar");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
      }
    });

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(131, 131, 131)
                        .addComponent(jLabel1))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(96, 96, 96)
                        .addGroup(jPanel1Layout
```

```
.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(jLabel3)
                                .addComponent(jLabel2)
                                .addComponent(jTextField1,
                                    javax.swing.GroupLayout.PREFERRED_SIZE, 186,
                                    javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(jTextField2,
                                    javax.swing.GroupLayout.PREFERRED_SIZE, 186,
                                    javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(jButton2))))
                    .addContainerGap(210, Short.MAX_VALUE))
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                    .addGap(0, 0, Short.MAX_VALUE)
                    .addComponent(jButton1)
                    .addGap(165, 165, 165)));
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(32, 32, 32)
                    .addComponent(jLabel1)
                    .addGap(42, 42, 42)
                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 21,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(14, 14, 14)
                    .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(18, 18, 18)
                    .addComponent(jLabel3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASEL
INE)
                        .addComponent(jButton1)
                        .addComponent(jButton2))
                    .addContainerGap(67, Short.MAX_VALUE)));
```

```
    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(jPanel1, 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(jPanel1, 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 jButton2ActionPerformed(java.awt.event.ActionEvent evt) {// GEN-
FIRST:event_jButton2ActionPerformed

    Clientes clie = new Clientes();
    clie.setVisible(true);
    this.dispose();

  }// GEN-LAST:event_jButton2ActionPerformed

  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {// GEN-
FIRST:event_jButton1ActionPerformed

    // guardar

    String nombre = jTextField2.getText();
    String nit = jTextField1.getText();

    if (!nombre.isEmpty()) {

      if (nit.isEmpty()) {
        nit = "C/F";
      }
      System.out.println("Nombre: " + nombre + " Nit: " + nit);
```

```
            String tmp = nombre + ";" + nit;

            new Util().escribirArchivo(tmp, Util.miRuta+"/clientes.txt" , true);

        } else {

            // mensjae de error

            JOptionPane.showMessageDialog(null, "Debe ingresar un nombre");
        }

    }// GEN-LAST:event_jButton1ActionPerformed

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField2;
    // End of variables declaration
}
```

La clase NuevoClie proporciona una interfaz gráfica para añadir nuevos clientes a la aplicación. Permite ingresar el nombre y el NIT de un cliente y guardar esta información en un archivo de texto. Este código es esencial para la gestión de nuevos clientes en la aplicación, asegurando que los datos se almacenen de manera persistente y accesible.

AgregarPro.java

```
package com.mycompany.proyect1.FrontEnd.Producto;

import javax.swing.JOptionPane;

import com.mycompany.proyect1.BackEnd.util.Util;

/**
 *
 * @author ajolo
 */
public class AgregarPro extends javax.swing.JFrame {

    /**
     * Creates new form Eliminacion
     */
    public AgregarPro() {
        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() {

        jPanel1 = new javax.swing.JPanel();
        jButton1 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
```

```
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jTextField1 = new javax.swing.JTextField();
jTextField2 = new javax.swing.JTextField();
jTextField3 = new javax.swing.JTextField();
jLabel4 = new javax.swing.JLabel();
jButton3 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jButton1.setText("Agregar");
jButton1.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton1ActionPerformed(evt);
   }
});

jLabel1.setText("Agregar nuevo Producto");

jLabel2.setText("Stock");

jLabel3.setText("Precio");

jTextField1.setDoubleBuffered(true);
jTextField1.addKeyListener(new java.awt.event.KeyAdapter() {
   public void keyTyped(java.awt.event.KeyEvent evt) {
      jTextField1KeyTyped(evt);
   }
});

jTextField2.addKeyListener(new java.awt.event.KeyAdapter() {
   public void keyTyped(java.awt.event.KeyEvent evt) {
      jTextField2KeyTyped(evt);
   }
});

jLabel4.setText("Nombre Produ.");

jButton3.setText("Regresar");
jButton3.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton3ActionPerformed(evt);
   }
});
```

```
    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                .addGap(54, 54, 54)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILI
NG)
                    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout
                        .createSequentialGroup()
                        .addComponent(jLabel3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
                            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 167,
                            javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout
                        .createSequentialGroup()
                        .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
                            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jTextField2,
javax.swing.GroupLayout.PREFERRED_SIZE, 167,
                            javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(0, 54, Short.MAX_VALUE)
                        .addComponent(jLabel1)
                        .addGap(103, 103, 103))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 118,
                            javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
                            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jButton1))
                    .addGroup(jPanel1Layout.createSequentialGroup()
```

```
                        .addComponent(jLabel4)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
                            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jTextField3,
javax.swing.GroupLayout.PREFERRED_SIZE, 167,
                            javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(145, 145, 145)));
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel1)
                .addGap(37, 37, 37)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASEL
INE)
                    .addComponent(jTextField3,
javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel4))
                .addGap(22, 22, 22)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
                    .addComponent(jLabel3)
                    .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(28, 28, 28)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASEL
INE)
                    .addComponent(jLabel2)
                    .addComponent(jTextField2,
javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 102,
                    Short.MAX_VALUE)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASEL
INE)
                        .addComponent(jButton1)
                        .addComponent(jButton3))
                    .addGap(94, 94, 94)));

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE));
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE));

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

  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {// GEN-
FIRST:event_jButton1ActionPerformed
    //

    if (!jTextField1.getText().isEmpty() || !jTextField2.getText().isEmpty() ||
!jTextField3.getText().isEmpty()) {

      String nombre = jTextField3.getText();

      double precio = Double.parseDouble(jTextField1.getText());
      int stock = Integer.parseInt(jTextField2.getText());

      if (!nombre.isEmpty()) {

        if (precio > 0 && stock >= 0) {

          // guardar en la base de datos
          String tmp = nombre + "; " + precio + "; " + stock;

          jTextField1.setText("");
          jTextField2.setText("");
          jTextField3.setText("");
```

```
            // mensaje de exito
            String ruta = Util.miRuta + "/productos.txt";

            new Util().escribirArchivo(tmp, ruta, true);

          } else {
            /// mensaje de error

            JOptionPane.showMessageDialog(null, "El precio debe ser mayor a 0 ");

          }

        }

      } else {

        JOptionPane.showMessageDialog(null, "No puede dejar campos vacios");
      }

    }// GEN-LAST:event_jButton1ActionPerformed

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {// GEN-
FIRST:event_jButton3ActionPerformed

      Productos pro = new Productos();

      pro.setVisible(true);

      this.dispose();

    }// GEN-LAST:event_jButton3ActionPerformed

    private void jTextField1KeyTyped(java.awt.event.KeyEvent evt) {// GEN-
FIRST:event_jTextField1KeyTyped

      char c = evt.getKeyChar();
      if (!Character.isDigit(c) && c != '.') { // Permite solo dígitos
        evt.consume(); // Ignora la entrada
      }

    }// GEN-LAST:event_jTextField1KeyTyped

    private void jTextField2KeyTyped(java.awt.event.KeyEvent evt) {// GEN-
FIRST:event_jTextField2KeyTyped
```

```
        char c = evt.getKeyChar();
        if (!Character.isDigit(c)) { // Permite solo dígitos
            evt.consume(); // Ignora la entrada
        }
    }// GEN-LAST:event_jTextField2KeyTyped

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

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

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

```
java.util.logging.Logger.getLogger(AgregarPro.class.getName()).log(java.util.logging.Level.SEVERE, null,
                ex);
        }
        // </editor-fold>
        // </editor-fold>

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton3;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField3;
    // End of variables declaration
}
```

La clase AgregarPro proporciona una interfaz gráfica para añadir nuevos productos al inventario de la aplicación. Permite ingresar el nombre, el precio y el stock de un producto, y guardar esta información en un archivo de texto. Este código es esencial para la gestión de productos en la aplicación, asegurando que los datos se almacenen de manera persistente y accesible

Edicion.java

```
package com.mycompany.proyect1.FrontEnd.Producto;

import com.mycompany.proyect1.BackEnd.util.Util;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.util.ArrayList;
import javax.swing.JOptionPane;


public class Edicion extends javax.swing.JFrame {

  /**
   * Creates new form Edicion
   */

  private ArrayList<String[]> listaProductos = new ArrayList<>();

  public Edicion() {


    initComponents();
    cargarProd();

  }

  /**
   * 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() {

    jPanel14 = new javax.swing.JPanel();
    jLabel53 = new javax.swing.JLabel();
    jLabel54 = new javax.swing.JLabel();
    jLabel55 = new javax.swing.JLabel();
    jTextField40 = new javax.swing.JTextField();
    jTextField41 = new javax.swing.JTextField();
    jComboBox1 = new javax.swing.JComboBox<>();
    jButton14 = new javax.swing.JButton();
    jLabel56 = new javax.swing.JLabel();
    jButton3 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel53.setText("Nombre");

    jLabel54.setText("Precio");

    jLabel55.setText("Stock");

    jTextField40.addKeyListener(new java.awt.event.KeyAdapter() {
        public void keyTyped(java.awt.event.KeyEvent evt) {
            jTextField40KeyTyped(evt);
        }
    });

    jTextField41.addKeyListener(new java.awt.event.KeyAdapter() {
        public void keyTyped(java.awt.event.KeyEvent evt) {
            jTextField41KeyTyped(evt);
        }
    });

    jComboBox1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jComboBox1ActionPerformed(evt);
        }
    });

    jButton14.setText("Guardar");
    jButton14.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
          jButton14ActionPerformed(evt);
        }
      });

      jLabel56.setText("Edicion Producto");

      jButton3.setText("Regresar");
      jButton3.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
          jButton3ActionPerformed(evt);
        }
      });

      javax.swing.GroupLayout jPanel14Layout = new javax.swing.GroupLayout(jPanel14);
      jPanel14.setLayout(jPanel14Layout);
      jPanel14Layout.setHorizontalGroup(
        jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel14Layout.createSequentialGroup()

.addGroup(jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEAD
ING)
            .addGroup(jPanel14Layout.createSequentialGroup()
              .addGap(58, 58, 58)

.addGroup(jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEAD
ING)
                .addComponent(jLabel55)
                .addComponent(jLabel53)
                .addComponent(jLabel54)
                .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 118,
javax.swing.GroupLayout.PREFERRED_SIZE))
              .addGap(69, 69, 69)

.addGroup(jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEAD
ING, false)
                .addComponent(jComboBox1, 0, 180, Short.MAX_VALUE)
                .addComponent(jTextField40)
                .addComponent(jTextField41)
                .addComponent(jButton14)))
            .addGroup(jPanel14Layout.createSequentialGroup()
              .addGap(182, 182, 182)
              .addComponent(jLabel56)))
          .addContainerGap(56, Short.MAX_VALUE))
```

```
    );
    jPanel14Layout.setVerticalGroup(
      jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel14Layout.createSequentialGroup()
        .addGap(35, 35, 35)
        .addComponent(jLabel56)
        .addGap(36, 36, 36)

.addGroup(jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASE
LINE)
          .addComponent(jLabel53)
          .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(23, 23, 23)

.addGroup(jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASE
LINE)
          .addComponent(jLabel54)
          .addComponent(jTextField40, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(21, 21, 21)

.addGroup(jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASE
LINE)
          .addComponent(jLabel55)
          .addComponent(jTextField41, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(62, 62, 62)

.addGroup(jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASE
LINE)
          .addComponent(jButton14)
          .addComponent(jButton3))
        .addContainerGap(95, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addComponent(jPanel14, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    );
    layout.setVerticalGroup(
```

```
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel14, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
      );

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

   private void jButton14ActionPerformed(java.awt.event.ActionEvent evt) {

      /// nueva edicion
      guardarDatosProducto();



   }


     private void guardarDatosProducto() {
      int indiceSeleccionado = jComboBox1.getSelectedIndex();

      if (indiceSeleccionado >= 0) {
         // Actualizar los datos en la lista
         String[] producto = listaProductos.get(indiceSeleccionado);
         producto[1] = jTextField40.getText(); // Actualizar precio
         producto[2] = jTextField41.getText();  // Actualizar stock

         // Sobrescribir el archivo con los nuevos datos
         try (BufferedWriter bw = new BufferedWriter(new
FileWriter(Util.miRuta+"/productos.txt"))) {

            for (String[] prod : listaProductos) {
               bw.write(String.join(";", prod)); // Escribe cada producto como línea
               bw.newLine();
            }

            JOptionPane.showMessageDialog(this, "Datos guardados exitosamente.");

         } catch (IOException e) {
            JOptionPane.showMessageDialog(this, "Error al guardar los datos: " +
e.getMessage());
         }
      }
   }
```

```
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

        Productos pro = new Productos();

        pro.setVisible(true);

        this.dispose();

    }

    private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {

        mostrarDatosProducto();

    }

    private void jTextField40KeyTyped(java.awt.event.KeyEvent evt) {


        char c = evt.getKeyChar();
        if (!Character.isDigit(c) && c !='.') { // Permite solo dígitos
            evt.consume(); // Ignora la entrada
        }

    }

    private void jTextField41KeyTyped(java.awt.event.KeyEvent evt) {

        char c = evt.getKeyChar();
        if (!Character.isDigit(c)) { // Permite solo dígitos
            evt.consume(); // Ignora la entrada
        }

    }



    private void cargarProd() {

        try (BufferedReader br = new BufferedReader(new
FileReader(Util.miRuta+"/productos.txt"))) {
            String linea;
```

```
        while ((linea = br.readLine()) != null) {
            String[] datos = linea.split(";");
            if (datos.length == 3) {
                listaProductos.add(datos); // Almacena toda la línea dividida
                jComboBox1.addItem(datos[0]);
            }
        }
    } catch (IOException e) {
        JOptionPane.showMessageDialog(this, "Error al cargar el archivo: " + e.getMessage());
    }

}

private void mostrarDatosProducto() {

    int indiceSeleccionado = jComboBox1.getSelectedIndex();
    if (indiceSeleccionado >= 0) {
        String[] producto = listaProductos.get(indiceSeleccionado);
        jTextField40.setText(producto[1]); // Precio
        jTextField41.setText(producto[2]);  // Stock
    }
}


// Variables declaration - do not modify
private javax.swing.JButton jButton14;
private javax.swing.JButton jButton3;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JLabel jLabel53;
private javax.swing.JLabel jLabel54;
private javax.swing.JLabel jLabel55;
private javax.swing.JLabel jLabel56;
private javax.swing.JPanel jPanel14;
private javax.swing.JTextField jTextField40;
private javax.swing.JTextField jTextField41;
// End of variables declaration
}
```

La clase Edicion proporciona una interfaz gráfica para editar la información de los productos en el inventario de la aplicación. Permite cargar los datos de un archivo, mostrarlos en la interfaz, editarlos y guardarlos nuevamente en el archivo. Este código es esencial para la gestión de productos en la aplicación, asegurando que los datos se actualicen de manera precisa y accesible.

EliminarPro.java

```
package com.mycompany.proyect1.FrontEnd.Producto;

import com.mycompany.proyect1.BackEnd.util.Util;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.util.ArrayList;
import javax.swing.JOptionPane;

/**
 *
 * @author ajolo
 */
public class EliminarPro extends javax.swing.JFrame {

    /**
     * Creates new form Creacion
     */

     private ArrayList<String[]> listaProductos = new ArrayList<>();


    public EliminarPro() {



        initComponents();
        cargarProd();
    }

    /**
```

```
 * 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() {

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jButton2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jComboBox1 = new javax.swing.JComboBox<>();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("Eliminar producto");

    jLabel3.setText("Nombre Produc.");

    jButton2.setText("Eliminar");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });

    jButton3.setText("Regresar");
    jButton3.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton3ActionPerformed(evt);
        }
    });

    jComboBox1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jComboBox1ActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
```

```
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
          .addContainerGap(195, Short.MAX_VALUE)
          .addComponent(jLabel1)
          .addGap(175, 175, 175))
        .addGroup(jPanel1Layout.createSequentialGroup()
          .addGap(52, 52, 52)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
            .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, 211,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
                .addComponent(jLabel3)
                .addGroup(jPanel1Layout.createSequentialGroup()
                  .addGap(14, 14, 14)
                  .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE,
118, javax.swing.GroupLayout.PREFERRED_SIZE)))
              .addGap(86, 86, 86)
              .addComponent(jButton2)))
          .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(28, 28, 28)
        .addComponent(jLabel1)
        .addGap(36, 36, 36)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 54,
Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASEL
INE)
            .addComponent(jButton3)
            .addComponent(jButton2))
```

```
            .addGap(143, 143, 143))
        );

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );

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

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {


        eliminarCliente();

    }



    private void eliminarCliente() {
    int indiceSeleccionado = jComboBox1.getSelectedIndex();

    if (indiceSeleccionado >= 0) {
        // Confirmar la eliminación
        int confirmacion = JOptionPane.showConfirmDialog(this,
            "¿Estás seguro de que deseas eliminar este producto?",
            "Confirmar eliminación",
            JOptionPane.YES_NO_OPTION);

        if (confirmacion == JOptionPane.YES_OPTION) {
            // Eliminar de la lista y del ComboBox
            listaProductos.remove(indiceSeleccionado);
            jComboBox1.removeItemAt(indiceSeleccionado);

            // Actualizar el archivo
```

```
        try (BufferedWriter bw = new BufferedWriter(new FileWriter(Util.miRuta +
"/clientes.txt"))) {
            for (String[] prod : listaProductos) {
               bw.write(String.join(";", prod)); // Escribe cada producto como línea
               bw.newLine();
            }
            JOptionPane.showMessageDialog(this, "Cliente eliminado exitosamente.");
         } catch (IOException e) {
            JOptionPane.showMessageDialog(this, "Error al eliminar el producto: " +
e.getMessage());
         }
      }
   } else {
      JOptionPane.showMessageDialog(this, "Por favor, selecciona un producto para
eliminar.");
   }
}



   private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

      Productos pro = new Productos();
      pro.setVisible(true);
      this.dispose();
   }

   private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {

      mostrarDatosProducto();

   }

      private void mostrarDatosProducto() {
      int indiceSeleccionado = jComboBox1.getSelectedIndex();
      if (indiceSeleccionado >= 0) {
         String[] producto = listaProductos.get(indiceSeleccionado);

      }
   }


   private void cargarProd() {
```

```
      try (BufferedReader br = new BufferedReader(new
FileReader(Util.miRuta+"/productos.txt"))) {
         String linea;
         while ((linea = br.readLine()) != null) {
            String[] datos = linea.split(";");
            if (datos.length == 3) {
               listaProductos.add(datos); // Almacena toda la línea dividida
               jComboBox1.addItem(datos[0]);
            }
         }
      } catch (IOException e) {
         JOptionPane.showMessageDialog(this, "Error al cargar el archivo: " + e.getMessage());
      }

   }

   // Variables declaration - do not modify
   private javax.swing.JButton jButton2;
   private javax.swing.JButton jButton3;
   private javax.swing.JComboBox<String> jComboBox1;
   private javax.swing.JLabel jLabel1;
   private javax.swing.JLabel jLabel3;
   private javax.swing.JPanel jPanel1;
   // End of variables declaration
}
```

La clase EliminarPro proporciona una interfaz gráfica para eliminar productos del inventario de la aplicación. Permite cargar los datos de un archivo, mostrarlos en la interfaz, seleccionar un producto y eliminarlo tanto de la lista en memoria como del archivo de almacenamiento. Este código es esencial para la gestión y mantenimiento del inventario de productos en la aplicación, asegurando que los datos se actualicen y se mantengan consistentes

Productos.java

```
package com.mycompany.proyect1.FrontEnd.Producto;

import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;

import javax.swing.table.DefaultTableModel;

import com.mycompany.proyect1.BackEnd.util.Util;
import com.mycompany.proyect1.FrontEnd.Homme;
import com.mycompany.proyect1.FrontEnd.Login;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */



public class Productos extends javax.swing.JFrame {

    /**
     * Creates new form Productos
     */

    // recibir datos:


    public Productos( ) {


        initComponents();
          // Crear una tabla con un modelo de datos
          DefaultTableModel modelo = new DefaultTableModel();
```

```
        modelo.addColumn("Nombre del Producto");
        modelo.addColumn("Precio");
        modelo.addColumn("Cantidad");

        jTable1.setModel(modelo);

    String ruta = Util.miRuta+ "/productos.txt";

    cargarDatosEnTabla(ruta, 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.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jButton5 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jButton6 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jButton1.setText("Carga de Producto");
    jButton1.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
```

```
jButton2.setText("Edición producto");
jButton2.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    jButton2ActionPerformed(evt);
  }
});

jButton3.setText("Regresar");
jButton3.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    jButton3ActionPerformed(evt);
  }
});

jButton4.setText("Creacion Producto");
jButton4.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    jButton4ActionPerformed(evt);
  }
});

jLabel1.setText("Clientes Registrados en el sistema");

jButton5.setText("Producto mas Vendido");
jButton5.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    jButton5ActionPerformed(evt);
  }
});

jTable1.setModel(new javax.swing.table.DefaultTableModel(
  new Object [][] {
    {null, null, null},
    {null, null, null},
    {null, null, null},
    {null, null, null}
  },
  new String [] {
    "Producto", "Precio", "Stock"
  }
));
jTable1.setCellSelectionEnabled(true);
jScrollPane1.setViewportView(jTable1);
```

```
    jButton6.setText("Eliminacion producto");
    jButton6.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton6ActionPerformed(evt);
      }
    });

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(87, 87, 87)
        .addComponent(jLabel1)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(38, 38, 38)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
          .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 501,
Short.MAX_VALUE)
            .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG, false)
              .addComponent(jButton6, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
              .addComponent(jButton2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
              .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
              .addComponent(jButton4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGap(59, 59, 59))
          .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
              .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 175,
javax.swing.GroupLayout.PREFERRED_SIZE)
              .addComponent(jButton5, javax.swing.GroupLayout.PREFERRED_SIZE, 238,
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
                .addGap(0, 0, Short.MAX_VALUE))))
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(61, 61, 61)
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(12, 12, 12)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jButton4)
                        .addGap(18, 18, 18)
                        .addComponent(jButton1)
                        .addGap(18, 18, 18)
                        .addComponent(jButton2)
                        .addGap(18, 18, 18)
                        .addComponent(jButton6))
                    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 253,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(155, 155, 155)
                .addComponent(jButton5)
                .addGap(28, 28, 28)
                .addComponent(jButton3)
                .addContainerGap(44, Short.MAX_VALUE))
        );

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addComponent(jPanel1, 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 jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

    Homme h = new Homme();

    h.setVisible(true);
     this.dispose();


}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {


    AgregarPro add = new AgregarPro();

    add.setVisible(true);

    this.dispose();

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {


    // producto mas vendido

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
    // delete product

    EliminarPro delet = new EliminarPro();
    delet.setVisible(true);

    this.dispose();



}
```

```
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // cargar producto




    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        //

            Edicion edit = new Edicion();

        edit.setVisible(true);

        this.dispose();

    }

    /**
     * @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(Productos.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
        } catch (InstantiationException ex) {
```

```
java.util.logging.Logger.getLogger(Productos.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

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

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

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

   // Método para cargar los datos del archivo en el modelo de la tabla
  public  void cargarDatosEnTabla(String ruta, DefaultTableModel modelo) {

    System.out.println( "===>  "+ruta);

    try (BufferedReader br = new BufferedReader(new FileReader(ruta))) {
      String linea;
      while ((linea = br.readLine()) != null) {
        // Separar la línea por el delimitador ";"
        String[] partes = linea.split(";");
        if (partes.length == 3) { // Asegurarse de que haya exactamente 3 elementos
          String nombre = partes[0].trim();
          String precio = partes[1].trim();
          String cantidad = partes[2].trim();

          // Agregar los datos a la tabla
          modelo.addRow(new Object[]{nombre, precio, cantidad});
        }
      }
    } catch (IOException e) {
      e.printStackTrace();
      System.out.println("Error al leer el archivo.");
```

```
    }
  }


  // Variables declaration - do not modify
  private javax.swing.JButton jButton1;
  private javax.swing.JButton jButton2;
  private javax.swing.JButton jButton3;
  private javax.swing.JButton jButton4;
  private javax.swing.JButton jButton5;
  private javax.swing.JButton jButton6;
  private javax.swing.JLabel jLabel1;
  private javax.swing.JPanel jPanel1;
  private javax.swing.JScrollPane jScrollPane1;
  private javax.swing.JTable jTable1;
  // End of variables declaration
}
```

La clase Productos proporciona una interfaz gráfica para gestionar el inventario de productos en la aplicación. Permite cargar, mostrar, agregar, editar y eliminar productos, así como visualizar los productos registrados en el sistema. Este código es esencial para la gestión de productos en la aplicación, asegurando que los datos se actualicen de manera precisa y accesible

Reporte.java

```
package com.mycompany.proyect1.FrontEnd.Venta;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */

/**
 *
 * @author ajolo
 */
public class Reporte extends javax.swing.JFrame {

    /**
     * Creates new form Reporte
     */
    public Reporte() {
        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() {

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGap(0, 400, Short.MAX_VALUE)
        );
```

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

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

    /**
     * @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(Reporte.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Reporte.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Reporte.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Reporte.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        }
```

```
        //</editor-fold>

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

    // Variables declaration - do not modify
    // End of variables declaration
}
```