User Detailsn

package librarymanagementsystem;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.Vector;

import javax.swing.JTable;

import javax.swing.table.DefaultTableModel;

public class UserDetails extends javax.swing.JFrame {

    public UserDetails() {

        initComponents();

        tbload();

    }

    public void tbload() {

    try {

        Class.forName("com.mysql.cj.jdbc.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost/library?useSSL=false", "root", "");

        DefaultTableModel dt = (DefaultTableModel) jTable1.getModel();

        dt.setRowCount(0);

        PreparedStatement ps = con.prepareStatement("SELECT \* FROM user");

        ResultSet rs = ps.executeQuery();

        while (rs.next()) {

            Vector<String> row = new Vector<>();

            row.add(rs.getString(1));

            row.add(rs.getString(2));

            row.add(rs.getString(3));

            row.add(rs.getString(4));

            dt.addRow(row);

        }

//        // Set the auto-resize mode to adjust column widths according to the contents

//        jTable1.setAutoResizeMode(JTable.AUTO\_RESIZE\_ALL\_COLUMNS);

//        jTable1.setVisible(true);

    } catch (ClassNotFoundException | SQLException ex) {

        System.out.println(ex);

    }

}

    @SuppressWarnings("unchecked")

    // <editor-fold defaultstate="collapsed" desc="Generated Code">

    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();

        jLabel1 = new javax.swing.JLabel();

        jPanel2 = new javax.swing.JPanel();

        jScrollPane1 = new javax.swing.JScrollPane();

        jTable1 = new javax.swing.JTable();

        jButton1 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

        jPanel1.setBackground(new java.awt.Color(248, 232, 238));

        jPanel1.setBorder(javax.swing.BorderFactory.createCompoundBorder());

        jLabel1.setFont(new java.awt.Font("Georgia", 3, 24)); // NOI18N

        jLabel1.setForeground(new java.awt.Color(232, 69, 69));

        jLabel1.setText("All Users ");

        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(220, 220, 220)

                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 144, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

        );

        jPanel1Layout.setVerticalGroup(

            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addContainerGap()

                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addContainerGap(21, Short.MAX\_VALUE))

        );

        jPanel2.setBackground(new java.awt.Color(253, 206, 223));

        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

        jTable1.setBackground(new java.awt.Color(255, 226, 226));

        jTable1.setFont(new java.awt.Font("Georgia", 2, 14)); // NOI18N

        jTable1.setModel(new javax.swing.table.DefaultTableModel(

            new Object [][] {

                {null, null, null, null},

                {null, null, null, null},

                {null, null, null, null},

                {null, null, null, null}

            },

            new String [] {

                "User\_ID", "Username", "Password", "Admin"

            }

        ));

        jScrollPane1.setViewportView(jTable1);

        jButton1.setBackground(new java.awt.Color(54, 79, 107));

        jButton1.setFont(new java.awt.Font("Georgia", 2, 24)); // NOI18N

        jButton1.setForeground(new java.awt.Color(252, 81, 133));

        jButton1.setText("Back");

        jButton1.addActionListener(new java.awt.event.ActionListener() {

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

                jButton1ActionPerformed(evt);

            }

        });

        javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

        jPanel2.setLayout(jPanel2Layout);

        jPanel2Layout.setHorizontalGroup(

            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT\_SIZE, 568, Short.MAX\_VALUE)

            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()

                .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                .addComponent(jButton1)

                .addContainerGap())

        );

        jPanel2Layout.setVerticalGroup(

            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel2Layout.createSequentialGroup()

                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 199, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

                .addComponent(jButton1)

                .addContainerGap())

        );

        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)

            .addComponent(jPanel2, 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, 0, 0)

                .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

        );

        pack();

    }// </editor-fold>

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

       new Functions().setVisible(true);

       setVisible(false);

    }

    public static void main(String args[]) {

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {

                new UserDetails().setVisible(true);

            }

        });

    }

    // Variables declaration - do not modify

    private javax.swing.JButton jButton1;

    private javax.swing.JLabel jLabel1;

    private javax.swing.JPanel jPanel1;

    private javax.swing.JPanel jPanel2;

    private javax.swing.JScrollPane jScrollPane1;

    private javax.swing.JTable jTable1;

    // End of variables declaration

}

Login.java

package librarymanagementsystem;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.PreparedStatement;

import javax.swing.JOptionPane;

public class Login extends javax.swing.JFrame {

    public Login() {

        initComponents();

    }

    @SuppressWarnings("unchecked")

    // <editor-fold defaultstate="collapsed" desc="Generated Code">

    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();

        jLabel1 = new javax.swing.JLabel();

        jPanel2 = new javax.swing.JPanel();

        jLabel2 = new javax.swing.JLabel();

        jLabel3 = new javax.swing.JLabel();

        t1 = new javax.swing.JTextField();

        t2 = new javax.swing.JTextField();

        jButton1 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

        jPanel1.setBackground(new java.awt.Color(50, 130, 184));

        jPanel1.setForeground(new java.awt.Color(15, 76, 117));

        jLabel1.setBackground(new java.awt.Color(27, 38, 44));

        jLabel1.setFont(new java.awt.Font("Georgia", 2, 24)); // NOI18N

        jLabel1.setForeground(new java.awt.Color(27, 38, 44));

        jLabel1.setText("Login");

        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(199, 199, 199)

                .addComponent(jLabel1)

                .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

        );

        jPanel1Layout.setVerticalGroup(

            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addContainerGap()

                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addContainerGap(15, Short.MAX\_VALUE))

        );

        jPanel2.setBackground(new java.awt.Color(187, 225, 250));

        jLabel2.setFont(new java.awt.Font("Georgia", 2, 18)); // NOI18N

        jLabel2.setForeground(new java.awt.Color(40, 84, 48));

        jLabel2.setText("Username:");

        jLabel3.setFont(new java.awt.Font("Georgia", 2, 18)); // NOI18N

        jLabel3.setForeground(new java.awt.Color(40, 84, 48));

        jLabel3.setText("Password:");

        jButton1.setBackground(new java.awt.Color(82, 97, 107));

        jButton1.setFont(new java.awt.Font("Georgia", 3, 22)); // NOI18N

        jButton1.setForeground(new java.awt.Color(118, 159, 205));

        jButton1.setText("Login");

        jButton1.setBorder(javax.swing.BorderFactory.createCompoundBorder());

        jButton1.addActionListener(new java.awt.event.ActionListener() {

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

                jButton1ActionPerformed(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()

                .addGap(45, 45, 45)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

                    .addGroup(jPanel2Layout.createSequentialGroup()

                        .addComponent(jLabel3)

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

                        .addComponent(t2))

                    .addGroup(jPanel2Layout.createSequentialGroup()

                        .addComponent(jLabel2)

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

                        .addComponent(t1, javax.swing.GroupLayout.PREFERRED\_SIZE, 157, javax.swing.GroupLayout.PREFERRED\_SIZE)))

                .addContainerGap(132, Short.MAX\_VALUE))

            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()

                .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 76, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addGap(36, 36, 36))

        );

        jPanel2Layout.setVerticalGroup(

            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel2Layout.createSequentialGroup()

                .addGap(37, 37, 37)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE)

                    .addComponent(t1, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE))

                .addGap(27, 27, 27)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                    .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)

                    .addComponent(t2, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE))

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 57, Short.MAX\_VALUE)

                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addGap(42, 42, 42))

        );

        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)

            .addComponent(jPanel2, 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, 0, Short.MAX\_VALUE)

                .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

        );

        pack();

    }// </editor-fold>

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

        String ID = t1.getText();

        String pass = t2.getText();

            try {

                Class.forName("com.mysql.cj.jdbc.Driver");

                Connection con = DriverManager.getConnection("jdbc:mysql://localhost/library?useSSL=false", "root", "");

                String sql = "SELECT \* FROM user WHERE User\_ID = ? AND Password = ?";

                PreparedStatement st = con.prepareStatement(sql);

                st.setString(1, ID);

                st.setString(2, pass);

                ResultSet rs = st.executeQuery();

                boolean userFound = false;

                while (rs.next()) {

                    String username = rs.getString("User\_ID");

                    String password = rs.getString("Password");

                    String admin = rs.getString("Admin");

                    // Check if the user is an admin

                    if (ID.equals(username) && pass.equals(password) && !"0".equals(admin)) {

                        userFound = true;

                        String name = rs.getString("Username");

                        new Functions(name).setVisible(true);

                        setVisible(false);

                        break;

                    }

                }

                if (!userFound) {

                    JOptionPane.showMessageDialog(null, "Username or password is incorrect");

                }

                con.close();

            } catch (ClassNotFoundException e) {

                JOptionPane.showMessageDialog(null, "Error loading JDBC driver: " + e.getMessage());

            } catch (SQLException e) {

                JOptionPane.showMessageDialog(null, "SQL Error: " + e.getMessage());

            }

    }

    public static void main(String args[]) {

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {

                new Login().setVisible(true);

            }

        });

    }

    // 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.JPanel jPanel1;

    private javax.swing.JPanel jPanel2;

    private javax.swing.JTextField t1;

    private javax.swing.JTextField t2;

    // End of variables declaration

}

LibraryManagementSystem.java

package librarymanagementsystem;

public class LibraryManagementSystem {

    public static void main(String[] args) {

        new Login().setVisible(true);

    }

}

Functions.java

package librarymanagementsystem;

import com.mysql.cj.jdbc.result.ResultSetMetaData;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JTable;

import javax.swing.\*;

import java.sql.Statement;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.ArrayList;

import java.util.List;

import java.util.\*;

import java.util.concurrent.TimeUnit;

public class Functions extends javax.swing.JFrame {

    public Functions() {

        initComponents();

    }

     public Functions(String name) {

        initComponents();

        l1.setText("Welcome " + name);

    }

    @SuppressWarnings("unchecked")

    // <editor-fold defaultstate="collapsed" desc="Generated Code">

    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();

        l1 = new javax.swing.JLabel();

        jPanel2 = new javax.swing.JPanel();

        jButton1 = new javax.swing.JButton();

        jButton2 = new javax.swing.JButton();

        jButton3 = new javax.swing.JButton();

        jButton4 = new javax.swing.JButton();

        jButton5 = new javax.swing.JButton();

        jButton6 = new javax.swing.JButton();

        jButton7 = new javax.swing.JButton();

        jButton8 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

        jPanel1.setBackground(new java.awt.Color(166, 177, 225));

        jPanel1.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));

        l1.setBackground(new java.awt.Color(91, 251, 238));

        l1.setFont(new java.awt.Font("Georgia", 2, 24)); // NOI18N

        l1.setForeground(new java.awt.Color(49, 245, 248));

        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(105, 105, 105)

                .addComponent(l1, javax.swing.GroupLayout.PREFERRED\_SIZE, 360, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

        );

        jPanel1Layout.setVerticalGroup(

            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addContainerGap()

                .addComponent(l1, javax.swing.GroupLayout.DEFAULT\_SIZE, 52, Short.MAX\_VALUE)

                .addGap(19, 19, 19))

        );

        jPanel2.setBackground(new java.awt.Color(220, 214, 247));

        jButton1.setBackground(new java.awt.Color(195, 190, 240));

        jButton1.setFont(new java.awt.Font("Georgia", 3, 14)); // NOI18N

        jButton1.setForeground(new java.awt.Color(49, 29, 63));

        jButton1.setText("View Books");

        jButton1.addActionListener(new java.awt.event.ActionListener() {

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

                jButton1ActionPerformed(evt);

            }

        });

        jButton2.setBackground(new java.awt.Color(195, 190, 240));

        jButton2.setFont(new java.awt.Font("Georgia", 3, 14)); // NOI18N

        jButton2.setForeground(new java.awt.Color(49, 29, 63));

        jButton2.setText("View Users");

        jButton2.addActionListener(new java.awt.event.ActionListener() {

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

                jButton2ActionPerformed(evt);

            }

        });

        jButton3.setBackground(new java.awt.Color(195, 190, 240));

        jButton3.setFont(new java.awt.Font("Georgia", 3, 14)); // NOI18N

        jButton3.setForeground(new java.awt.Color(49, 29, 63));

        jButton3.setText("View Issued Books");

        jButton3.addActionListener(new java.awt.event.ActionListener() {

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

                jButton3ActionPerformed(evt);

            }

        });

        jButton4.setBackground(new java.awt.Color(195, 190, 240));

        jButton4.setFont(new java.awt.Font("Georgia", 3, 14)); // NOI18N

        jButton4.setForeground(new java.awt.Color(49, 29, 63));

        jButton4.setText("Issue Books");

        jButton4.addActionListener(new java.awt.event.ActionListener() {

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

                jButton4ActionPerformed(evt);

            }

        });

        jButton5.setBackground(new java.awt.Color(195, 190, 240));

        jButton5.setFont(new java.awt.Font("Georgia", 3, 14)); // NOI18N

        jButton5.setForeground(new java.awt.Color(49, 29, 63));

        jButton5.setText("Add Users");

        jButton5.addComponentListener(new java.awt.event.ComponentAdapter() {

            public void componentMoved(java.awt.event.ComponentEvent evt) {

                jButton5ComponentMoved(evt);

            }

        });

        jButton5.addActionListener(new java.awt.event.ActionListener() {

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

                jButton5ActionPerformed(evt);

            }

        });

        jButton6.setBackground(new java.awt.Color(195, 190, 240));

        jButton6.setFont(new java.awt.Font("Georgia", 3, 14)); // NOI18N

        jButton6.setForeground(new java.awt.Color(49, 29, 63));

        jButton6.setText("Add Books");

        jButton6.addActionListener(new java.awt.event.ActionListener() {

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

                jButton6ActionPerformed(evt);

            }

        });

        jButton7.setBackground(new java.awt.Color(195, 190, 240));

        jButton7.setFont(new java.awt.Font("Georgia", 3, 14)); // NOI18N

        jButton7.setForeground(new java.awt.Color(49, 29, 63));

        jButton7.setText("Return Books");

        jButton7.addActionListener(new java.awt.event.ActionListener() {

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

                jButton7ActionPerformed(evt);

            }

        });

        jButton8.setBackground(new java.awt.Color(195, 190, 240));

        jButton8.setFont(new java.awt.Font("Georgia", 3, 14)); // NOI18N

        jButton8.setForeground(new java.awt.Color(49, 29, 63));

        jButton8.setText("Exit");

        jButton8.addActionListener(new java.awt.event.ActionListener() {

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

                jButton8ActionPerformed(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()

                .addGap(33, 33, 33)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

                    .addComponent(jButton5, 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))

                .addGap(18, 18, 18)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

                    .addComponent(jButton2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                    .addComponent(jButton6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

                .addGap(18, 18, 18)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

                    .addComponent(jButton3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                    .addComponent(jButton7, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

                .addGap(18, 18, 18)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

                    .addComponent(jButton4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                    .addComponent(jButton8, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

                .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

        );

        jPanel2Layout.setVerticalGroup(

            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel2Layout.createSequentialGroup()

                .addGap(24, 24, 24)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

                    .addComponent(jButton4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                    .addComponent(jButton3, 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, 37, Short.MAX\_VALUE))

                .addGap(45, 45, 45)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

                    .addComponent(jButton5, javax.swing.GroupLayout.DEFAULT\_SIZE, 37, Short.MAX\_VALUE)

                    .addComponent(jButton6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                    .addComponent(jButton7, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                    .addComponent(jButton8, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

                .addContainerGap(72, 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)

            .addComponent(jPanel2, 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, 0, Short.MAX\_VALUE)

                .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

        );

        pack();

    }// </editor-fold>

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

      new BookDetails().setVisible(true);

     setVisible(false);

    }

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

     new UserDetails().setVisible(true);

     setVisible(false);

    }

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

       JFrame userFrame = new JFrame("Add User"); // Frame to enter user details

    JLabel l1, l2;

    l1 = new JLabel("Username");

    l1.setBounds(30, 15, 100, 30);

    l2 = new JLabel("Password");

    l2.setBounds(30, 50, 100, 30);

    JTextField F\_user = new JTextField();

    F\_user.setBounds(110, 15, 200, 30);

    JPasswordField F\_pass = new JPasswordField();

    F\_pass.setBounds(110, 50, 200, 30);

    JRadioButton a1 = new JRadioButton("Admin");

    a1.setBounds(55, 80, 200, 30);

    JRadioButton a2 = new JRadioButton("User");

    a2.setBounds(130, 80, 200, 30);

    ButtonGroup bg = new ButtonGroup();

    bg.add(a1);

    bg.add(a2);

    JButton Add\_but = new JButton("Add");

    Add\_but.setBounds(130, 130, 80, 25);

    Add\_but.addActionListener(new ActionListener() {

        public void actionPerformed(ActionEvent e) {

            String username = F\_user.getText();

            String password = F\_pass.getText();

            boolean admin = false;

            if (a1.isSelected()) {

                admin = true;

            }

            try {

    Class.forName("com.mysql.cj.jdbc.Driver");

    Connection con = DriverManager.getConnection("jdbc:mysql://localhost/library?useSSL=false", "root", "");

    Statement stmt = con.createStatement();

    stmt.executeUpdate("USE LIBRARY");

    stmt.executeUpdate("INSERT INTO USER(USERNAME,PASSWORD,ADMIN) VALUES ('" + username + "','" + password + "'," + admin + ")");

    JOptionPane.showMessageDialog(null, "User added!");

    userFrame.dispose();

} catch (SQLException e1) {

    JOptionPane.showMessageDialog(null, "SQL Error: " + e1.getMessage());

    e1.printStackTrace(); // Log the stack trace for debugging purposes

} catch (ClassNotFoundException ex) {

    JOptionPane.showMessageDialog(null, "Database driver not found: " + ex.getMessage());

    ex.printStackTrace(); // Log the stack trace for debugging purposes

}

        }

    });

    userFrame.add(Add\_but);

    userFrame.add(a2);

    userFrame.add(a1);

    userFrame.add(l1);

    userFrame.add(l2);

    userFrame.add(F\_user);

    userFrame.add(F\_pass);

    userFrame.setSize(350, 200);

    userFrame.setLayout(null);

    userFrame.setVisible(true);

    userFrame.setLocationRelativeTo(null);

    }

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

 JFrame bookFrame = new JFrame("Enter Book Details");

    JLabel l1, l2, l3, l4, l5;

    l1 = new JLabel("Title");

    l1.setBounds(30, 15, 100, 30);

    l2 = new JLabel("Author");

    l2.setBounds(30, 53, 100, 30);

    l3 = new JLabel("Status");

    l3.setBounds(30, 90, 100, 30);

    l4 = new JLabel("Quantity");

    l4.setBounds(30, 127, 100, 30);

    l5 = new JLabel("Price");

    l5.setBounds(30, 164, 100, 30);

    JTextField F\_title = new JTextField();

    F\_title.setBounds(110, 15, 200, 30);

    JTextField F\_author = new JTextField();

    F\_author.setBounds(110, 53, 200, 30);

    JTextField F\_status = new JTextField();

    F\_status.setBounds(110, 90, 200, 30);

    JTextField F\_quantity = new JTextField();

    F\_quantity.setBounds(110, 127, 200, 30);

    JTextField F\_price = new JTextField();

    F\_price.setBounds(110, 164, 200, 30);

    JButton create\_but = new JButton("Submit");

    create\_but.setBounds(130, 200, 80, 25);

    create\_but.addActionListener(new ActionListener() {

        public void actionPerformed(ActionEvent e) {

            String title = F\_title.getText();

            String author = F\_author.getText();

            String status = F\_status.getText();

            int quantity = Integer.parseInt(F\_quantity.getText());

            double price = Double.parseDouble(F\_price.getText());

            try {

                 Class.forName("com.mysql.cj.jdbc.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost/library?useSSL=false", "root", "");

                Statement stmt = con.createStatement();

                stmt.executeUpdate("USE LIBRARY");

                String insertQuery = "INSERT INTO book (Title, Author, Status, Quantity, Price) VALUES ('" + title + "', '" + author + "', '" + status + "', " + quantity + ", " + price + ")";

                stmt.executeUpdate(insertQuery);

                JOptionPane.showMessageDialog(null, "Book added!");

                bookFrame.dispose();

            } catch (SQLException e1) {

                JOptionPane.showMessageDialog(null, "SQL Error: " + e1.getMessage());

                e1.printStackTrace(); // Log the stack trace for debugging purposes

            } catch (ClassNotFoundException ex) {

                Logger.getLogger(Functions.class.getName()).log(Level.SEVERE, null, ex);

            }

        }

    });

    bookFrame.add(create\_but);

    bookFrame.add(l1);

    bookFrame.add(l2);

    bookFrame.add(l3);

    bookFrame.add(l4);

    bookFrame.add(l5);

    bookFrame.add(F\_title);

    bookFrame.add(F\_author);

    bookFrame.add(F\_status);

    bookFrame.add(F\_quantity);

    bookFrame.add(F\_price);

    bookFrame.setSize(350, 270);

    bookFrame.setLayout(null);

    bookFrame.setVisible(true);

bookFrame.setLocationRelativeTo(null);

    }

    private void jButton5ComponentMoved(java.awt.event.ComponentEvent evt) {

    }

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

    JFrame f = new JFrame("Users List");

    try {

        Class.forName("com.mysql.cj.jdbc.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost/library?useSSL=false", "root", "");

        Statement stmt = con.createStatement();

        stmt.executeUpdate("USE LIBRARY");

        ResultSet rs = stmt.executeQuery("SELECT \* FROM issue");

        ResultSetMetaData metaData = (ResultSetMetaData) rs.getMetaData();

        int columnCount = metaData.getColumnCount();

        String[] columnNames = new String[columnCount];

        for (int i = 0; i < columnCount; i++) {

            columnNames[i] = metaData.getColumnName(i + 1);

        }

        List<Object[]> data = new ArrayList<>();

        while (rs.next()) {

            Object[] row = new Object[columnCount];

            for (int i = 0; i < columnCount; i++) {

                row[i] = rs.getObject(i + 1);

            }

            data.add(row);

        }

        JTable bookList = new JTable(data.toArray(new Object[0][]), columnNames);

        JScrollPane scrollPane = new JScrollPane(bookList);

        f.add(scrollPane);

        f.setSize(800, 400);

        f.setVisible(true);

        f.setLocationRelativeTo(null); // Center JFrame on screen

    } catch (ClassNotFoundException | SQLException e1) {

        // Handle exceptions

        JOptionPane.showMessageDialog(null, e1);

    }

    }

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

      JFrame g = new JFrame("Enter Details");

                //g.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

                //create labels

                JLabel l1,l2,l3,l4;

                l1=new JLabel("Book ID(BID)");  // Label 1 for Book ID

                l1.setBounds(30,15, 100,30);

                l2=new JLabel("User ID(UID)");  //Label 2 for user ID

                l2.setBounds(30,53, 100,30);

                l3=new JLabel("Period(days)");  //Label 3 for period

                l3.setBounds(30,90, 100,30);

                l4=new JLabel("Issued Date(DD-MM-YYYY)");  //Label 4 for issue date

                l4.setBounds(30,127, 150,30);

                JTextField F\_bid = new JTextField();

                F\_bid.setBounds(110, 15, 200, 30);

                JTextField F\_uid=new JTextField();

                F\_uid.setBounds(110, 53, 200, 30);

                JTextField F\_period=new JTextField();

                F\_period.setBounds(110, 90, 200, 30);

                JTextField F\_issue=new JTextField();

                F\_issue.setBounds(180, 130, 130, 30);

                JButton create\_but=new JButton("Submit");//creating instance of JButton

                create\_but.setBounds(130,170,80,25);//x axis, y axis, width, height

                create\_but.addActionListener(new ActionListener() {

                    public void actionPerformed(ActionEvent e){

                    String uid = F\_uid.getText();

                    String bid = F\_bid.getText();

                    String period = F\_period.getText();

                    String issued\_date = F\_issue.getText();

                    int period\_int = Integer.parseInt(period);

                    try {

                        Class.forName("com.mysql.cj.jdbc.Driver");

                        Connection con = DriverManager.getConnection("jdbc:mysql://localhost/library?useSSL=false", "root", "");

                        Statement stmt = con.createStatement();

                        stmt.executeUpdate("USE LIBRARY");

                        stmt.executeUpdate("INSERT INTO ISSUE(User\_ID,Book\_ID,ISSUE\_DATE,PERIOD) VALUES ('"+uid+"','"+bid+"','"+issued\_date+"',"+period\_int+")");

                        JOptionPane.showMessageDialog(null,"Book Issued!");

                        g.dispose();

                    }

                    catch (SQLException e1) {

                        // TODO Auto-generated catch block

                         JOptionPane.showMessageDialog(null, e1);

                    }   catch (ClassNotFoundException ex) {

                            Logger.getLogger(Functions.class.getName()).log(Level.SEVERE, null, ex);

                        }

                    }

                });

                   g.add(l3);

                    g.add(l4);

                    g.add(create\_but);

                    g.add(l1);

                    g.add(l2);

                    g.add(F\_uid);

                    g.add(F\_bid);

                    g.add(F\_period);

                    g.add(F\_issue);

                    g.setSize(350,250);

                    g.setLayout(null);

                    g.setVisible(true);

                    g.setLocationRelativeTo(null);

    }

    private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {

          JFrame g = new JFrame("Enter Details");

        JLabel l1, l4;

        l1 = new JLabel("Issue ID(IID)");

        l1.setBounds(30, 15, 100, 30);

        l4 = new JLabel("Return Date(yyyy-MM-dd)");

        l4.setBounds(30, 50, 150, 30);

        JTextField F\_iid = new JTextField();

        F\_iid.setBounds(110, 15, 200, 30);

        JTextField F\_return = new JTextField();

        F\_return.setBounds(180, 50, 130, 30);

        JButton create\_but = new JButton("Return");

        create\_but.setBounds(130, 170, 80, 25);

        create\_but.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent e) {

                String iid = F\_iid.getText();

                String return\_date = F\_return.getText();

                try {

                    Class.forName("com.mysql.cj.jdbc.Driver");

                    Connection con = DriverManager.getConnection("jdbc:mysql://localhost/library?useSSL=false", "root", "");

                    Statement stmt = con.createStatement();

                    stmt.executeUpdate("USE LIBRARY");

                    ResultSet rs = stmt.executeQuery("SELECT RETURN\_DATE FROM ISSUE WHERE Issue\_ID=" + iid);

                    if (rs.next() && rs.getString(1) != null) {

                        JOptionPane.showMessageDialog(null, "This book has already been returned.");

                            return;

                    }

                    String date1 = null;

                    String date2 = return\_date;

                    rs = stmt.executeQuery("SELECT ISSUE\_DATE FROM ISSUE WHERE Issue\_ID=" + iid);

                    while (rs.next()) {

                        date1 = rs.getString(1);

                    }

                    try {

                        Date date\_1 = new SimpleDateFormat("yyyy-MM-dd").parse(date1);

                        Date date\_2 = new SimpleDateFormat("yyyy-MM-dd").parse(date2);

                        long diff = date\_2.getTime() - date\_1.getTime();

                        long daysDifference = TimeUnit.DAYS.convert(diff, TimeUnit.MILLISECONDS);

                        ResultSet rs1 = stmt.executeQuery("SELECT PERIOD FROM ISSUE WHERE Issue\_ID=" + iid);

                        int diff\_int = 0;

                        if (rs1.next()) {

                            diff\_int = rs1.getInt(1);

                        }

                        stmt.executeUpdate("UPDATE ISSUE SET RETURN\_DATE='" + return\_date + "' WHERE Issue\_ID=" + iid);

                        if (daysDifference > diff\_int) {

                            int fine = (int) (daysDifference - diff\_int) \* 20;

                            stmt.executeUpdate("UPDATE ISSUE SET FINE=" + fine + " WHERE Issue\_ID=" + iid);

                            String fine\_str = ("Fine: Rs. " + fine);

                            JOptionPane.showMessageDialog(null, fine\_str);

                        }

                        JOptionPane.showMessageDialog(null, "Book Returned!");

                    } catch (ParseException | SQLException e1) {

                        JOptionPane.showMessageDialog(null, e1);

                    }

                } catch (SQLException | ClassNotFoundException ex) {

                    JOptionPane.showMessageDialog(null, ex);

                }

            }

        });

        g.add(l1);

        g.add(l4);

        g.add(F\_iid);

        g.add(F\_return);

        g.add(create\_but);

        g.setSize(350, 250);

        g.setLayout(null);

        g.setVisible(true);

        g.setLocationRelativeTo(null);

    }

    private void jButton8ActionPerformed(java.awt.event.ActionEvent evt) {

       new Login().setVisible(true);

       setVisible(false);

       dispose();

    }

    public static void main(String args[]) {

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {

                new Functions().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.JButton jButton6;

    private javax.swing.JButton jButton7;

    private javax.swing.JButton jButton8;

    private javax.swing.JPanel jPanel1;

    private javax.swing.JPanel jPanel2;

    private javax.swing.JLabel l1;

    // End of variables declaration

}

BookDetails.java

package librarymanagementsystem;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.Vector;

import javax.swing.\*;

import javax.swing.table.DefaultTableModel;

public class BookDetails extends javax.swing.JFrame {

    public BookDetails() {

        initComponents();

        tbload();

    }

public void tbload() {

    try {

        Class.forName("com.mysql.cj.jdbc.Driver");

        Connection con = DriverManager.getConnection("jdbc:mysql://localhost/library?useSSL=false", "root", "");

        DefaultTableModel dt = (DefaultTableModel) jTable1.getModel();

        dt.setRowCount(0);

        PreparedStatement ps = con.prepareStatement("SELECT \* FROM book");

        ResultSet rs = ps.executeQuery();

        while (rs.next()) {

            Vector<String> row = new Vector<>();

            row.add(rs.getString(1));

            row.add(rs.getString(2));

            row.add(rs.getString(3));

            row.add(rs.getString(4));

            row.add(rs.getString(5));

            row.add(rs.getString(6));

            dt.addRow(row);

        }

        // Set the auto-resize mode to adjust column widths according to the contents

        jTable1.setAutoResizeMode(JTable.AUTO\_RESIZE\_ALL\_COLUMNS);

        jTable1.setVisible(true);

    } catch (ClassNotFoundException | SQLException ex) {

        System.out.println(ex);

    }

}

    @SuppressWarnings("unchecked")

    // <editor-fold defaultstate="collapsed" desc="Generated Code">

    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();

        jLabel1 = new javax.swing.JLabel();

        jPanel2 = new javax.swing.JPanel();

        jScrollPane1 = new javax.swing.JScrollPane();

        jTable1 = new javax.swing.JTable();

        jButton1 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

        jPanel1.setBackground(new java.awt.Color(177, 178, 255));

        jLabel1.setFont(new java.awt.Font("Georgia", 2, 24)); // NOI18N

        jLabel1.setForeground(new java.awt.Color(245, 245, 245));

        jLabel1.setText("All Books ");

        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(227, 227, 227)

                .addComponent(jLabel1)

                .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()

                .addGap(19, 19, 19)

                .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT\_SIZE, 62, Short.MAX\_VALUE)

                .addContainerGap())

        );

        jPanel2.setBackground(new java.awt.Color(170, 196, 255));

        jTable1.setBackground(new java.awt.Color(210, 218, 255));

        jTable1.setForeground(new java.awt.Color(54, 79, 107));

        jTable1.setModel(new javax.swing.table.DefaultTableModel(

            new Object [][] {

                {null, null, null, null, null, null},

                {null, null, null, null, null, null},

                {null, null, null, null, null, null},

                {null, null, null, null, null, null}

            },

            new String [] {

                "Book\_ID", "Title", "Author", "Status", "Quantity", "Price"

            }

        ));

        jTable1.setRowHeight(30);

        jTable1.setRowMargin(10);

        jScrollPane1.setViewportView(jTable1);

        jButton1.setBackground(new java.awt.Color(54, 79, 107));

        jButton1.setFont(new java.awt.Font("Georgia", 2, 24)); // NOI18N

        jButton1.setForeground(new java.awt.Color(252, 81, 133));

        jButton1.setText("Back");

        jButton1.addActionListener(new java.awt.event.ActionListener() {

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

                jButton1ActionPerformed(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()

                .addContainerGap()

                .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT\_SIZE, 629, Short.MAX\_VALUE)

                .addContainerGap())

            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()

                .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 91, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addGap(27, 27, 27))

        );

        jPanel2Layout.setVerticalGroup(

            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel2Layout.createSequentialGroup()

                .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 292, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addGap(0, 0, Short.MAX\_VALUE)

                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE)

                .addContainerGap(59, 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)

            .addComponent(jPanel2, 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, 0, Short.MAX\_VALUE)

                .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

        );

        pack();

    }// </editor-fold>

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

   new Functions().setVisible(true);

   setVisible(false);

    }

    public static void main(String args[]) {

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {

                new BookDetails().setVisible(true);

            }

        });

    }

    // Variables declaration - do not modify

    private javax.swing.JButton jButton1;

    private javax.swing.JLabel jLabel1;

    private javax.swing.JPanel jPanel1;

    private javax.swing.JPanel jPanel2;

    private javax.swing.JScrollPane jScrollPane1;

    private javax.swing.JTable jTable1;

    // End of variables declaration

}