Appendix – Code

<u>Index:</u>

```java
package Warehouse_Inventory_Management_Software;
public class Warehouse_Inventory_Management_Software {
    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
    }

}
package Warehouse_Inventory_Management_Software;
import java.awt.Toolkit;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
public class LoginPage extends javax.swing.JFrame
{
    public LoginPage() {
        initComponents();
        // The line below are used to set the icon of the software

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
    }
    public void verifyLogin()
    {
        //The below code is used to validate whether any of the fields are
null
        if (UserName.getText().trim().isEmpty())
        {
            bl_username.setText("Username is empty");
        }
        if (Password.getText().trim().isEmpty())
        {
            bl_password.setText("Password is empty");
        }
        //The below code makes sure the entered username and password match
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
            String sql= "Select * from user_details where UserName=? AND
Password=?";
            PreparedStatement pst= Conn.prepareStatement(sql);
            pst.setString(1,UserName.getText());
            pst.setString(2,Password.getText());
            ResultSet rs= pst.executeQuery();
            if(rs.next())
            {
                JOptionPane.showMessageDialog(null,"Login Successfull");
                setVisible(false);
                MainMenu mm = new MainMenu();
                mm.setVisible(true);
            }
            else
            {
                JOptionPane.showMessageDialog(null,"Invalid information");
                UserName.setText("");
```

```java
                    Password.setText("");
                }
                Conn.close();
            }
        catch(Exception e)
            {
                JOptionPane.showMessageDialog(null,e);
            }
        }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        UserName = new javax.swing.JTextField();
        Password = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        bl_username = new javax.swing.JLabel();
        bl_password = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Login");

        jPanel1.setBackground(new java.awt.Color(153, 153, 153));
        jPanel1.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 3));

        jLabel1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/Warehouse_Inventory_Manageme
nt_Software/KP_Logo.png"))); // NOI18N

        jLabel2.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
        jLabel2.setText("Username:");

        jLabel3.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
        jLabel3.setText("Password:");

        UserName.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                UserNameActionPerformed(evt);
            }
        });
        UserName.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyReleased(java.awt.event.KeyEvent evt) {
                UserNameKeyReleased(evt);
            }
        });

        Password.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyReleased(java.awt.event.KeyEvent evt) {
                PasswordKeyReleased(evt);
            }
        });

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
        jButton1.setText("Login");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
```

```java
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(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.Alignme
nt.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(107, 107, 107)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                            .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.TRAILING)
                                    .addComponent(jLabel3)
                                    .addComponent(jLabel2))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                                        .addGap(12, 12, 12)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                            .addComponent(Password,
javax.swing.GroupLayout.PREFERRED_SIZE, 253,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                            .addComponent(bl_password,
javax.swing.GroupLayout.PREFERRED_SIZE, 145,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addGroup(jPanel1Layout.createSequentialGroup()

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING, false)
                                            .addComponent(bl_username,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                                            .addComponent(UserName,
javax.swing.GroupLayout.DEFAULT_SIZE, 253, Short.MAX_VALUE)))))
                            .addComponent(jLabel1)))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(262, 262, 262)
                        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 89,
javax.swing.GroupLayout.PREFERRED_SIZE)))
```

```java
                .addGap(107, 107, 107))
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(34, 34, 34)
                .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 12,
Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                    .addComponent(jLabel2)
                    .addComponent(UserName,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(bl_username,
javax.swing.GroupLayout.PREFERRED_SIZE, 19,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(22, 22, 22)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                    .addComponent(jLabel3)
                    .addComponent(Password,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(10, 10, 10)
                .addComponent(bl_password,
javax.swing.GroupLayout.PREFERRED_SIZE, 23,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(46, 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(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))
        );
        layout.setVerticalGroup(
```

```java
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );

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

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

    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // The function is called when the "Login" button is pressed
        verifyLogin();
    }

    private void UserNameKeyReleased(java.awt.event.KeyEvent evt) {
        bl_username.setText(" ");
    }

    private void PasswordKeyReleased(java.awt.event.KeyEvent evt) {
        bl_password.setText(" ");
    }

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

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

java.util.logging.Logger.getLogger(LoginPage.class.getName()).log(java.util
.logging.Level.SEVERE, null, ex);
```

```java
            } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(LoginPage.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 LoginPage().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JTextField Password;
    private javax.swing.JTextField UserName;
    private javax.swing.JLabel bl_password;
    private javax.swing.JLabel bl_username;
    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;
    // End of variables declaration
}

package Warehouse_Inventory_Management_Software;
import java.awt.Toolkit;
public class MainMenu extends javax.swing.JFrame {
    public MainMenu() {
        initComponents();

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
    }
    public MainMenu(String para)
    {
        initComponents();

    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel6 = new javax.swing.JPanel();
        jButton5 = new javax.swing.JButton();
        jPanel2 = new javax.swing.JPanel();
        jPanel3 = new javax.swing.JPanel();
        jButton6 = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();
        jPanel1 = new javax.swing.JPanel();

        javax.swing.GroupLayout jPanel6Layout = new
javax.swing.GroupLayout(jPanel6);
```

```java
        jPanel6.setLayout(jPanel6Layout);
        jPanel6Layout.setHorizontalGroup(

jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGap(0, 100, Short.MAX_VALUE)
        );
        jPanel6Layout.setVerticalGroup(

jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGap(0, 100, Short.MAX_VALUE)
        );

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


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Home Page");

        jPanel2.setBackground(new java.awt.Color(153, 153, 153));
        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 3));

        jPanel3.setBackground(new java.awt.Color(102, 102, 102));

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

        javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(20, 20, 20)
                .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 101,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(17, Short.MAX_VALUE))
        );
        jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```java
                        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );

        jButton1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
        jButton1.setText("Administrator Info");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        jButton2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
        jButton2.setText("Book Info");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });

        jButton3.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
        jButton3.setText("Update Database");
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });

        jButton4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
        jButton4.setText("Create Reports");
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(evt);
            }
        });

        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(240, 240, 240));
        jLabel3.setText("Home Page ");

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGap(0, 0, Short.MAX_VALUE)
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGap(0, 10, Short.MAX_VALUE)
        );

        javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
        jPanel2.setLayout(jPanel2Layout);
        jPanel2Layout.setHorizontalGroup(
```

```java
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addComponent(jPanel3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                    .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(32, 32, 32)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                            .addComponent(jButton1)
                            .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 199,
javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(72, 72, 72)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                            .addComponent(jButton2,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 197,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jButton4,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 197,
javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(32, 32, 32))
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jLabel3)
                        .addGap(148, 148, 148))))
        );
        jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(7, 7, 7)
                .addComponent(jLabel3)
                .addGap(18, 18, 18)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(39, 39, 39)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
```

```java
                    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(45, 45, 45)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                    .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 125,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 125,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap(39, Short.MAX_VALUE))
            .addComponent(jPanel3,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
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(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );

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

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        // Takes administrator to Create Reports page:
        CreateReports cr = new CreateReports();
        cr.setVisible(true);
        setVisible(false);
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        // Takes administrator to Update Database page:
        UpdateDatabase UD= new UpdateDatabase();
        UD.setVisible(true);
        setVisible(false);
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // Takes administrator to Admin Information page:
        AdminInfo ad1= new AdminInfo();
```

```java
        ad1.setVisible(true);
        setVisible(false);
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // Takes administrator to Book Information page:
        BookInfo bk1= new BookInfo();
        bk1.setVisible(true);
        setVisible(false);
    }

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

    }

    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        // Takes administrator back to the login page:
        LoginPage lp1= new LoginPage();
        lp1.setVisible(true);
        setVisible(false);
    }

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

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

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

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

```java
        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new MainMenu().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.JLabel jLabel3;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel6;
    // End of variables declaration
}
package Warehouse_Inventory_Management_Software;
import java.awt.Toolkit;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;
public class AdminInfo extends javax.swing.JFrame {
    public AdminInfo() {
        initComponents();
        updateTable();

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
    }
    //The function below is used to retrieve the Name,Email ID,and Username
for every administrator in a single resultset
    private void updateTable()
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
            String sql= "Select `Name`,`Email_ID`,`UserName` from
user_details";
            PreparedStatement pst= Conn.prepareStatement(sql);
            ResultSet rs = pst.executeQuery();
            Display_Admin.setModel(DbUtils.resultSetToTableModel(rs));
            Conn.close();
        }
        catch(Exception e)
        {
            JOptionPane.showMessageDialog(null,e);
        }
    }
```

```java
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jScrollPane1 = new javax.swing.JScrollPane();
        Display_Admin = new javax.swing.JTable();
        jButton1 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("AdminInfo");

        jPanel1.setBackground(new java.awt.Color(204, 204, 204));
        jPanel1.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 3));

        Display_Admin.setBackground(new java.awt.Color(153, 153, 153));
        Display_Admin.setForeground(new java.awt.Color(255, 255, 255));
        Display_Admin.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 [] {
                "Title 1", "Title 2", "Title 3", "Title 4"
            }
        ));
        jScrollPane1.setViewportView(Display_Admin);

        jButton1.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N
        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(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(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.TRAILING)
                    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 73,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 393,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap())
```

```java
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(61, 61, 61)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 96,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jButton1,
javax.swing.GroupLayout.DEFAULT_SIZE, 30, Short.MAX_VALUE)
                .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)
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        );

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

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // Takes administrator to the main menu :
        MainMenu menu= new MainMenu();
        menu.setVisible(true);
        setVisible(false);
    }

    /**
     * @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())) {
```

```java
            javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

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

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

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

java.util.logging.Logger.getLogger(AdminInfo.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 AdminInfo().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JTable Display_Admin;
    private javax.swing.JButton jButton1;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JScrollPane jScrollPane1;
    // End of variables declaration
}
package Warehouse_Inventory_Management_Software;
import java.awt.Toolkit;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;
public class BookInfo extends javax.swing.JFrame {
    public BookInfo() {
        initComponents();
        bookSearch();

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
    }
    /*The function below retrieves and stores the ISBN,book name, book
type, and price in a single result set.
    However, the entered book name acts as a search parameter in this case.
    */
    private void bookSearch()
    {
```

```java
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
            //If the text field is empty, the data forall the books is
returned.
            if (Search.getText().trim().isEmpty())
            {
                String sql= "Select * from book_identification";
                PreparedStatement pst= Conn.prepareStatement(sql);
                ResultSet rs = pst.executeQuery();
                Display_Books.setModel(DbUtils.resultSetToTableModel(rs));
            }
            //If the search parameter is found, every book which has the
search string is rerutrned.
            else
            {
                String sql="Select * from book_identification where
Book_Name like '%"+Search.getText()+"%'";
                PreparedStatement pst= Conn.prepareStatement(sql);
                ResultSet rs= pst.executeQuery();
                Display_Books.setModel(DbUtils.resultSetToTableModel(rs));
            }
            Conn.close();
        }
        //If both these are not satisfied, the user is notified that there
is no such book in the inventory and is asked to renter the data
        catch(Exception e)
        {
            JOptionPane.showMessageDialog(null,"The book name was not
found- make sure to not enter special characters and the wrong case");
            Search.setText("");
        }
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jComboBox1 = new javax.swing.JComboBox<>();
        jPanel1 = new javax.swing.JPanel();
        jScrollPane1 = new javax.swing.JScrollPane();
        Display_Books = new javax.swing.JTable();
        jButton1 = new javax.swing.JButton();
        Search = new javax.swing.JTextField();
        jLabel1 = new javax.swing.JLabel();
        jButton2 = new javax.swing.JButton();

        jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "Item 1", "Item 2", "Item 3", "Item 4" }));


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("BookInfo");

        jPanel1.setBackground(new java.awt.Color(204, 204, 204));
        jPanel1.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 3));

        Display_Books.setBackground(new java.awt.Color(153, 153, 153));
```

```java
        Display_Books.setForeground(new java.awt.Color(255, 255, 255));
        Display_Books.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 [] {
                "Title 1", "Title 2", "Title 3", "Title 4"
            }
        ));
        jScrollPane1.setViewportView(Display_Books);

        jButton1.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N
        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        jLabel1.setFont(new java.awt.Font("Tahoma", 1, 11)); // NOI18N
        jLabel1.setText("Please enter the name of the book below (the
search is case sensitive and does not accept symbols)");

        jButton2.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N
        jButton2.setText("Search");
        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()
                .addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                    .addComponent(jScrollPane1)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(Search,
javax.swing.GroupLayout.PREFERRED_SIZE, 328,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 96,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(0, 0, Short.MAX_VALUE))
                    .addComponent(jLabel1,
javax.swing.GroupLayout.DEFAULT_SIZE, 596, Short.MAX_VALUE)
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                        .addGap(0, 0, Short.MAX_VALUE)
```

```java
                        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 73,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addContainerGap())
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 23,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                    .addComponent(Search,
javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 632, Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .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)
        );
        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();
        setLocationRelativeTo(null);
    }// </editor-fold>

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

```java
        //Takes administrator to the main menu :
        MainMenu menu= new MainMenu();
        menu.setVisible(true);
        setVisible(false);
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        //The function is called when the "Search" button is pressed
        bookSearch();
    }

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

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

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

java.util.logging.Logger.getLogger(BookInfo.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 BookInfo().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JTable Display_Books;
```

```java
    private javax.swing.JTextField Search;
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JComboBox<String> jComboBox1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JScrollPane jScrollPane1;
    // End of variables declaration
}
package Warehouse_Inventory_Management_Software;
import java.awt.Toolkit;
public class UpdateDatabase extends javax.swing.JFrame {

    public UpdateDatabase() {
        initComponents();

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel2 = new javax.swing.JPanel();
        jPanel3 = new javax.swing.JPanel();
        jButton6 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Update Databse");

        jPanel2.setBackground(new java.awt.Color(153, 153, 153));
        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 3));

        jPanel3.setBackground(new java.awt.Color(102, 102, 102));

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

        javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(20, 20, 20)
                .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 101,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(47, Short.MAX_VALUE))
        );
```

```java
        jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );

        jButton2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
        jButton2.setText("Inventory In");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });

        jButton4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
        jButton4.setText("View Transactions");
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(evt);
            }
        });

        jButton5.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
        jButton5.setText("Inventory Out");
        jButton5.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton5ActionPerformed(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()
                .addComponent(jPanel3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(148, 148, 148)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.TRAILING)
                    .addComponent(jButton5,
javax.swing.GroupLayout.PREFERRED_SIZE, 244,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 244,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
                        .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 244,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addContainerGap(169, Short.MAX_VALUE))
            );
            jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
                .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                    .addGap(32, 32, 32)
                    .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 70,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(60, 60, 60)
                    .addComponent(jButton5,
javax.swing.GroupLayout.PREFERRED_SIZE, 86,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(60, 60, 60)
                    .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 86,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(29, 29, 29))
            );

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                    .addGap(0, 0, 0)
                    .addComponent(jPanel2,
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(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            );

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

    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        //Takes administrator to the main menu :
        MainMenu menu= new MainMenu();
        menu.setVisible(true);
        setVisible(false);
    }
```

```java
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        //Takes administrator to enter data regarding incoming transactions
:
        InventoryIn ii= new InventoryIn();
        ii.setVisible(true);
        setVisible(false);
    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        //Takes administrator to the page to view transactions :
        ViewTransactions vt= new ViewTransactions();
        vt.setVisible(true);
        setVisible(false);
    }

    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
        //Takes administrator to enter data regarding outgoing
transactions:
        InventoryOut io= new InventoryOut();
        io.setVisible(true);
        setVisible(false);
    }

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

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

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

java.util.logging.Logger.getLogger(UpdateDatabase.class.getName()).log(java
.util.logging.Level.SEVERE, null, ex);
        }
```

```java
        //</editor-fold>
        //</editor-fold>

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton4;
    private javax.swing.JButton jButton5;
    private javax.swing.JButton jButton6;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    // End of variables declaration
}
package Warehouse_Inventory_Management_Software;
import java.awt.Toolkit;
import java.sql.Connection;
import java.util.Date;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import javax.swing.JOptionPane;
public class InventoryIn extends javax.swing.JFrame {
    public InventoryIn() {
        initComponents();
        setISBN();
        setDate();

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
    }
    // The setDate() function is used to retrieve and display the current
date in a yyyy-MM-dd format
    public void setDate()
    {
        DateFormat df = new SimpleDateFormat("yyyy-MM-dd");
        Date dateobj = new Date();
        DateDisplay.setText(df.format(dateobj));


    }
    // The setISBN() function is used to retrieve and display the ISBN of
the chosen book
    public void setISBN()
    {
        //Checking whether the combobox BookChoice is empty
        if(BookChoice.getSelectedItem().toString()!="Select")
        {
            try
            {
                Class.forName("com.mysql.cj.jdbc.Driver");
                Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
```

```java
                //Querying the database to return back the ISBN of the
chosen book
                String sql1= "Select ISBN from book_identification where
Book_Name=?";
                PreparedStatement pst1= Conn.prepareStatement(sql1);
                pst1.setString(1,BookChoice.getSelectedItem().toString());
                ResultSet rs1= pst1.executeQuery();
                rs1.next();
                String Input_ISBN = rs1.getString(1);
                DisplayIsbn.setText(Input_ISBN);
            }
            catch (Exception e)
            {
                JOptionPane.showMessageDialog(null,e);
            }
        }
        else
        {
            DisplayIsbn.setText("");
        }
    }
    //The addDataIn() function is used to insert details regarding an
incoming transaction into the transaction_repository table
    public void addDataIn()
    {
        //The below code is used to check whether any of the text fields or
combo boxes are empty
        if(InvenIn.getText().trim().isEmpty() ||
NumDmg.getText().trim().isEmpty()||BookChoice.getSelectedItem().toString()=
=="Select"||Source.getText().trim().isEmpty())
        {
            JOptionPane.showMessageDialog(null,"Please ensure all fields
are filled");
            InvenIn.setText("");
            NumDmg.setText("");
        }
        //The if condition below is to validate the entered data by making
sure that the number of books damaged is not more than the number of books
that arrived
        else
if(Integer.parseInt(InvenIn.getText())<Integer.parseInt(NumDmg.getText()))
        {
            JOptionPane.showMessageDialog(null,"Number of books damaged
cannot be greater than total number of books in");
            InvenIn.setText("");
            NumDmg.setText("");
        }
        else
        {
            /*The below code uses MySql and JDBC concepts to insert the
number of books that arrived, number of books damaged,
            the date, and the source of a single incoming transaction into
the transaction_repository table*/
            try
            {
                //Inserting the number of books in and the number of books
damaged as entered by the user
                Class.forName("com.mysql.cj.jdbc.Driver");
                Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
```

```java
                String sql= "insert into
transaction_repository(Dates,ISBN,Inventory_In,Inventory_Out,Number_Damaged
,Source,Destination) values(?,?,?,?,?,?,?)";
                PreparedStatement pst= Conn.prepareStatement(sql);
                pst.setString(1,DateDisplay.getText());
                pst.setString(2,DisplayIsbn.getText());
                pst.setInt(3,Integer.parseInt(InvenIn.getText()));
                pst.setInt(4,0);
                pst.setInt(5,Integer.parseInt(NumDmg.getText()));
                pst.setString(6,Source.getText());
                pst.setString(7,"-");
                pst.executeUpdate();
                //Increasing the stock of the book in the warehouse based
on inventory in
                //and number damaged entered by the user
                int midStock= Integer.parseInt(InvenIn.getText())-
Integer.parseInt(NumDmg.getText());
                String sql2="update book_identification set Stock=Stock+?
where ISBN=?";
                PreparedStatement pst2= Conn.prepareStatement(sql2);
                pst2.setInt(1,midStock);
                pst2.setString(2,DisplayIsbn.getText());
                pst2.execute();
                JOptionPane.showMessageDialog(null,"The data has been
sucessfully added");
                InvenIn.setText("");
                NumDmg.setText("");
                Source.setText("");
            }
            catch (Exception e)
            {
                JOptionPane.showMessageDialog(null,e);
            }
        }
    }
    /**
     * 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() {

        jPanel2 = new javax.swing.JPanel();
        jPanel3 = new javax.swing.JPanel();
        jButton6 = new javax.swing.JButton();
        jPanel5 = new javax.swing.JPanel();
        jLabel3 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        DateDisplay = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        BookChoice = new javax.swing.JComboBox<>();
        jButton7 = new javax.swing.JButton();
        InvenIn = new javax.swing.JFormattedTextField();
        NumDmg = new javax.swing.JFormattedTextField();
```

```java
        DisplayIsbn = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        Source = new javax.swing.JFormattedTextField();
        jLabel8 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Inventory In");

        jPanel2.setBackground(new java.awt.Color(153, 153, 153));
        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 3));

        jPanel3.setBackground(new java.awt.Color(102, 102, 102));

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

        javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(20, 20, 20)
                .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 101,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(47, Short.MAX_VALUE))
        );
        jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );

        javax.swing.GroupLayout jPanel5Layout = new
javax.swing.GroupLayout(jPanel5);
        jPanel5.setLayout(jPanel5Layout);
        jPanel5Layout.setHorizontalGroup(

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGap(0, 510, Short.MAX_VALUE)
        );
        jPanel5Layout.setVerticalGroup(
```

```java
        jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGap(0, 12, Short.MAX_VALUE)
        );

        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 32)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(240, 240, 240));
        jLabel3.setText("Inventory In");

        jLabel1.setText("Date:");

        jLabel4.setText("Book Name:");

        jLabel5.setText("Inventory_In");

        jLabel7.setText("Number Damaged");

        BookChoice.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "Select", "The Monkey King", "Birth of Krshna &Krishna Conquest
/ Young Hanuman & Hanuman the Mighty", "Hungry Caterpillar Billingual",
"Tiny Seed Billingual", "Mixed Up Chameleon Billingual", "Little Vinayak",
"Lizards Tail", "Monkeys on A Fast", "The Boy Who Drew Cats", "Whose lovely
child can you be", "The Rumour", "The Last Bargain", "The Tallest Tale",
"Book worm", "Tak tak", "The Moustache Man", "When the Earth Lost Its
Shapes", "Dorje's Stripes", "Revenge of Puppets", "The Dancing Bear", "An
Elephant in my backyard", "A Big Mouth", "Tit for tat", "The Tiger
Eater's", "The Crocodile's Tail", "The Story and the song", "The Case of
the Stolen Smells", "What Will I Be", "What Could It Be?", "What Will You
Give Me", "Where Shall We Go", "Fetch That Colour", "Let's Roll Out a
Circle", "The Wednesday Bazaar", "Bela Misses Her Train", "Thea's Tree", "A
Pair of Twins", "The Fox and the Crow", "Whimsy", "The Dragon's Toothache",
"Farmer Falgu Goes On A Trip", "Farmer Falgu Goes To The Market", "The
Lions Feast", "The Night Monster", "What did the monster child eat today",
"Princess Easy Pleasy", "Farmer Falgu Goes to the Kumbh Mela", "Farmer
Falgu Goes kite Flying", "Dada's Useless Present", "A Tangle of Brungles",
"The Insect Boy", "Fly Little Fish", "The Clever Tailor", "Sadiq Wants to
Stitch", "Babban Hajjam", "Letter to Ammi", "Papa's Marathon", "Star
Struck", "The Truth about the Tooth", "Thukpa for All", "The Brave Parrot",
"Cat's Egg-Indian", "Daisy Doll", "Sion Misfortune", "One Rainy Day",
"Mountain of Mumbai", "Get OFF that Camel", "Thatha's Pumpkin New Title
2020", "Rats Bigger than Cats New Title 2020" }));
        BookChoice.addMouseListener(new java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                BookChoiceMouseClicked(evt);
            }
            public void mousePressed(java.awt.event.MouseEvent evt) {
                BookChoiceMousePressed(evt);
            }
            public void mouseReleased(java.awt.event.MouseEvent evt) {
                BookChoiceMouseReleased(evt);
            }
        });
        BookChoice.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BookChoiceActionPerformed(evt);
            }
        });
        BookChoice.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyPressed(java.awt.event.KeyEvent evt) {
                BookChoiceKeyPressed(evt);
```

```java
            }
            public void keyReleased(java.awt.event.KeyEvent evt) {
                BookChoiceKeyReleased(evt);
            }
        });

        jButton7.setText("Add Data");
        jButton7.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton7ActionPerformed(evt);
            }
        });

        InvenIn.setFormatterFactory(new
javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.NumberFormatter(java.text.NumberFormat.getIntegerInstance(
))));
        InvenIn.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyPressed(java.awt.event.KeyEvent evt) {
                InvenInKeyPressed(evt);
            }
        });

        NumDmg.setFormatterFactory(new
javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.NumberFormatter(java.text.NumberFormat.getIntegerInstance(
))));

        jLabel6.setText("ISBN: ");

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

        jLabel8.setText("Source for books");

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

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addComponent(jPanel3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jButton7,
javax.swing.GroupLayout.PREFERRED_SIZE, 101,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```java
                        .addGap(28, 28, 28))
                    .addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                            .addGroup(jPanel2Layout.createSequentialGroup()
                                .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.TRAILING)
                                    .addComponent(jLabel7)
                                    .addComponent(jLabel8))

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING, false)
                                    .addComponent(Source)
                                    .addComponent(NumDmg,
javax.swing.GroupLayout.DEFAULT_SIZE, 227, Short.MAX_VALUE)))
                                .addComponent(jPanel5,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGroup(jPanel2Layout.createSequentialGroup()
                                .addGap(50, 50, 50)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.TRAILING)
                                    .addComponent(jLabel4)
                                    .addComponent(jLabel5)
                                    .addComponent(jLabel6))

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

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

.addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                            .addComponent(DisplayIsbn,
javax.swing.GroupLayout.DEFAULT_SIZE, 225, Short.MAX_VALUE)
                                            .addComponent(BookChoice, 0, 1,
Short.MAX_VALUE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                        .addComponent(jLabel2))
                                    .addComponent(InvenIn,
javax.swing.GroupLayout.PREFERRED_SIZE, 225,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                            .addGroup(jPanel2Layout.createSequentialGroup()
                                .addGap(90, 90, 90)
                                .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                .addComponent(DateDisplay))
                            .addGroup(jPanel2Layout.createSequentialGroup()
                                .addGap(130, 130, 130)
```

```java
                                .addComponent(jLabel3,
javax.swing.GroupLayout.PREFERRED_SIZE, 244,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                        .addGap(0, 0, Short.MAX_VALUE))))
        );
        jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(11, 11, 11)
                .addComponent(jLabel3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel5,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(94, 94, 94)
                        .addComponent(jLabel2))
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(53, 53, 53)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                            .addComponent(jLabel1)
                            .addComponent(DateDisplay))
                        .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                            .addComponent(jLabel4)
                            .addComponent(BookChoice,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                            .addComponent(DisplayIsbn)
                            .addComponent(jLabel6))
                        .addGap(31, 31, 31)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                            .addComponent(jLabel5)
                            .addComponent(InvenIn,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))))
                .addGap(26, 26, 26)
```

```java
                        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                            .addComponent(jLabel7)
                            .addComponent(NumDmg,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(18, 18, 18)

                        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                            .addComponent(Source,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel8))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 25,
Short.MAX_VALUE)
                        .addComponent(jButton7,
javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addContainerGap())
            );

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addGap(0, 0, Short.MAX_VALUE)
                .addComponent(jPanel2,
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(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            );

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

    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        // Takes administrator to the update database menu :
        UpdateDatabase UD= new UpdateDatabase();
        UD.setVisible(true);
        setVisible(false);
    }

    private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {
        // The function is called when the "Add Data" button is pressed
```

```java
        addDataIn();
    }

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

    }

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

    }

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

    }

    private void BookChoiceMouseClicked(java.awt.event.MouseEvent evt) {

    }

    private void BookChoiceMousePressed(java.awt.event.MouseEvent evt) {


    }

    private void BookChoiceMouseReleased(java.awt.event.MouseEvent evt) {

    }

    private void BookChoiceActionPerformed(java.awt.event.ActionEvent evt)
{
        //The function is called when a book from the "BookChoice" combobox
is chosen
        setISBN();
    }

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

    /**
     * @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
                java.util.logging.Logger.getLogger(InventoryIn.class.getName()).log(java.ut
il.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JComboBox<String> BookChoice;
    private javax.swing.JLabel DateDisplay;
    private javax.swing.JLabel DisplayIsbn;
    private javax.swing.JFormattedTextField InvenIn;
    private javax.swing.JFormattedTextField NumDmg;
    private javax.swing.JFormattedTextField Source;
    private javax.swing.JButton jButton6;
    private javax.swing.JButton jButton7;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel5;
    // End of variables declaration
}
package Warehouse_Inventory_Management_Software;
import java.awt.Toolkit;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.swing.JOptionPane;
public class InventoryOut extends javax.swing.JFrame {
    public InventoryOut() {
        initComponents();
```

```java
            setISBN();
            setDate();
            setStock();

    setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
    }
    // The setStock() function is used to retrieve and display the stock in
the warehouse of the chosen book
    public void setStock()
    {
        //Checking whether the combobox BookChoice is empty
        if(BookChoice.getSelectedItem().toString()!="Select")
        {
            try
            {
                Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
                //Querying the database to return back the Stock of the
chosen book
                String sql1= "Select Stock from book_identification where
ISBN=?";
                PreparedStatement pst1= Conn.prepareStatement(sql1);
                pst1.setString(1,DisplayIsbn.getText());
                ResultSet rs1= pst1.executeQuery();
                rs1.next();
                String TempStock = rs1.getString(1);
                DisplayStock.setText(TempStock);
            }
            catch (Exception e)
            {
                JOptionPane.showMessageDialog(null,e);
            }
        }
        else
        {
            DisplayStock.setText("");
        }
    }
    public void setDate()
    {
        DateFormat df = new SimpleDateFormat("yyyy-MM-dd");
        Date dateobj = new Date();
        DateDisplay.setText(df.format(dateobj));

    }
    public void setISBN()
    {
        if(BookChoice.getSelectedItem().toString()!="Select")
        {
            try
            {
                Class.forName("com.mysql.cj.jdbc.Driver");
                Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
                String sql1= "Select ISBN from book_identification where
Book_Name=?";
                PreparedStatement pst1= Conn.prepareStatement(sql1);
                pst1.setString(1,BookChoice.getSelectedItem().toString());
```

```java
                ResultSet rs1= pst1.executeQuery();
                rs1.next();
                String Input_ISBN = rs1.getString(1);
                DisplayIsbn.setText(Input_ISBN);
            }
            catch (Exception e)
            {
                JOptionPane.showMessageDialog(null,e);
            }
        }
        else
        {
            DisplayIsbn.setText("");
        }
    }
    //The addDataOut() function is used to insert details regarding an
outgoing transaction into the transaction_repository table
    public void addDataOut()
    {
        //The below code is used to check whether any of the text field or
combo boxes are empty

if(InvenOut.getText().trim().isEmpty()||BookChoice.getSelectedItem().toStri
ng()=="Select"||Destination.getText().trim().isEmpty())
        {
            JOptionPane.showMessageDialog(null,"Please ensure all fields
are filled");
            InvenOut.setText("");
        }
        //The if condition below is to validate the entered data by making
sure that
        //the number of books shipped out is not more than the stock in the
warehouse
        else if
(Integer.parseInt(InvenOut.getText())>Integer.parseInt(DisplayStock.getText
()))
        {
            JOptionPane.showMessageDialog(null,"Number of books out cannot
be greater than stock of book");
            InvenOut.setText("");
        }
        else
        {
            /*The below code uses MySql and JDBC concepts to insert the
number of books that was shipped
            and the date of a outgoing transaction into the
transaction_repository table*/
            try
            {
                Class.forName("com.mysql.cj.jdbc.Driver");
                Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
                String sql= "insert into
transaction_repository(Dates,ISBN,Inventory_In,Inventory_Out,Number_Damaged
,Source,Destination) values(?,?,?,?,?,?,?)";
                PreparedStatement pst= Conn.prepareStatement(sql);
                pst.setString(1,DateDisplay.getText());
                pst.setString(2,DisplayIsbn.getText());
                pst.setInt(3,0);
                pst.setInt(4,Integer.parseInt(InvenOut.getText()));
```

```java
                pst.setInt(5,0);
                pst.setString(6,"-");
                pst.setString(7,Destination.getText());
                pst.executeUpdate();
                //updating stock of the book in the warehouse
                String sql2="update book_identification set Stock=Stock-?
where ISBN=?";
                PreparedStatement pst2= Conn.prepareStatement(sql2);
                pst2.setInt(1,Integer.parseInt(InvenOut.getText()));
                pst2.setString(2,DisplayIsbn.getText());
                pst2.execute();
                JOptionPane.showMessageDialog(null,"The data has been
sucessfully added");
                InvenOut.setText("");
                Destination.setText("");
                setStock();
            }
            catch (Exception e)
            {
                JOptionPane.showMessageDialog(null,e);
            }


        }
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel2 = new javax.swing.JPanel();
        jPanel3 = new javax.swing.JPanel();
        jButton6 = new javax.swing.JButton();
        jPanel5 = new javax.swing.JPanel();
        jLabel3 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        DateDisplay = new javax.swing.JLabel();
        BookChoice = new javax.swing.JComboBox<>();
        jButton7 = new javax.swing.JButton();
        InvenOut = new javax.swing.JFormattedTextField();
        DisplayIsbn = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        DisplayStock = new javax.swing.JLabel();
        Destination = new javax.swing.JFormattedTextField();
        jLabel8 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Inventory Out");

        jPanel2.setBackground(new java.awt.Color(153, 153, 153));
        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 3));

        jPanel3.setBackground(new java.awt.Color(102, 102, 102));

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

```java
                jButton6ActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(20, 20, 20)
                .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 101,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(47, Short.MAX_VALUE))
        );
        jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );

        javax.swing.GroupLayout jPanel5Layout = new
javax.swing.GroupLayout(jPanel5);
        jPanel5.setLayout(jPanel5Layout);
        jPanel5Layout.setHorizontalGroup(

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGap(0, 510, Short.MAX_VALUE)
        );
        jPanel5Layout.setVerticalGroup(

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGap(0, 12, Short.MAX_VALUE)
        );

        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 32)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(240, 240, 240));
        jLabel3.setText("Inventory Out");

        jLabel1.setText("Date:");

        jLabel4.setText("Book Name:");

        jLabel5.setText("Inventory_Out");

        BookChoice.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "Select", "The Monkey King", "Birth of Krshna &Krishna Conquest
/ Young Hanuman & Hanuman the Mighty", "Hungry Caterpillar Billingual",
"Tiny Seed Billingual", "Mixed Up Chameleon Billingual", "Little Vinayak",
```

```java
"Lizards Tail", "Monkeys on A Fast", "The Boy Who Drew Cats", "Whose lovely
child can you be", "The Rumour", "The Last Bargain", "The Tallest Tale",
"Book worm", "Tak tak", "The Moustache Man", "When the Earth Lost Its
Shapes", "Dorje's Stripes", "Revenge of Puppets", "The Dancing Bear", "An
Elephant in my backyard", "A Big Mouth", "Tit for tat", "The Tiger
Eater's", "The Crocodile's Tail", "The Story and the song", "The Case of
the Stolen Smells", "What Will I Be", "What Could It Be?", "What Will You
Give Me", "Where Shall We Go", "Fetch That Colour", "Let's Roll Out a
Circle", "The Wednesday Bazaar", "Bela Misses Her Train", "Thea's Tree", "A
Pair of Twins", "The Fox and the Crow", "Whimsy", "The Dragon's Toothache",
"Farmer Falgu Goes On A Trip", "Farmer Falgu Goes To The Market", "The
Lions Feast", "The Night Monster", "What did the monster child eat today",
"Princess Easy Pleasy", "Farmer Falgu Goes to the Kumbh Mela", "Farmer
Falgu Goes kite Flying", "Dada's Useless Present", "A Tangle of Brungles",
"The Insect Boy", "Fly Little Fish", "The Clever Tailor", "Sadiq Wants to
Stitch", "Babban Hajjam", "Letter to Ammi", "Papa's Marathon", "Star
Struck", "The Truth about the Tooth", "Thukpa for All", "The Brave Parrot",
"Cat's Egg-Indian", "Daisy Doll", "Sion Misfortune", "One Rainy Day",
"Mountain of Mumbai", "Get OFF that Camel", "Thatha's Pumpkin New Title
2020", "Rats Bigger than Cats New Title 2020" }));
        BookChoice.addMouseListener(new java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                BookChoiceMouseClicked(evt);
            }
            public void mousePressed(java.awt.event.MouseEvent evt) {
                BookChoiceMousePressed(evt);
            }
            public void mouseReleased(java.awt.event.MouseEvent evt) {
                BookChoiceMouseReleased(evt);
            }
        });
        BookChoice.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BookChoiceActionPerformed(evt);
            }
        });
        BookChoice.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyPressed(java.awt.event.KeyEvent evt) {
                BookChoiceKeyPressed(evt);
            }
            public void keyReleased(java.awt.event.KeyEvent evt) {
                BookChoiceKeyReleased(evt);
            }
        });

        jButton7.setText("Add Data");
        jButton7.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton7ActionPerformed(evt);
            }
        });

        InvenOut.setFormatterFactory(new
javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.NumberFormatter(java.text.NumberFormat.getIntegerInstance(
)))));
        InvenOut.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyPressed(java.awt.event.KeyEvent evt) {
                InvenOutKeyPressed(evt);
            }
        });
```

```java
        jLabel6.setText("ISBN: ");

        jLabel7.setText("Stock:");

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

        jLabel8.setText("Destination of Books");

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

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addComponent(jPanel3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                    .addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                        .addComponent(jPanel5,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGroup(jPanel2Layout.createSequentialGroup()
                            .addGap(128, 128, 128)
                            .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                            .addComponent(DateDisplay,
javax.swing.GroupLayout.PREFERRED_SIZE, 91,
javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGroup(jPanel2Layout.createSequentialGroup()
                            .addGap(50, 50, 50)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.TRAILING)
                                .addComponent(jLabel4)
                                .addComponent(jLabel5)
                                .addComponent(jLabel6)
                                .addComponent(jLabel7)
                                .addComponent(jLabel8))

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
```

```java
                                                   .addComponent(Destination,
javax.swing.GroupLayout.PREFERRED_SIZE, 225,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

.addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                                       .addComponent(DisplayIsbn,
javax.swing.GroupLayout.DEFAULT_SIZE, 225, Short.MAX_VALUE)
                                                       .addComponent(BookChoice,
0, 1, Short.MAX_VALUE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                                       .addComponent(jLabel2))
                                               .addComponent(InvenOut,
javax.swing.GroupLayout.PREFERRED_SIZE, 225,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                               .addComponent(DisplayStock)))))
                           .addGap(0, 0, Short.MAX_VALUE))
                   .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                                       .addComponent(jButton7,
javax.swing.GroupLayout.PREFERRED_SIZE, 101,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                       .addGap(28, 28, 28))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                                       .addComponent(jLabel3,
javax.swing.GroupLayout.PREFERRED_SIZE, 260,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                       .addGap(124, 124, 124))))))
       );
       jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
           .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
           .addGroup(jPanel2Layout.createSequentialGroup()
               .addGap(11, 11, 11)
               .addComponent(jLabel3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
               .addComponent(jPanel5,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```java
                        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                            .addGroup(jPanel2Layout.createSequentialGroup()
                                .addGap(94, 94, 94)
                                .addComponent(jLabel2))
                            .addGroup(jPanel2Layout.createSequentialGroup()
                                .addGap(53, 53, 53)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                    .addComponent(jLabel1)
                                    .addComponent(DateDisplay,
javax.swing.GroupLayout.PREFERRED_SIZE, 16,
javax.swing.GroupLayout.PREFERRED_SIZE))
                                .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                                    .addComponent(jLabel4)
                                    .addComponent(BookChoice,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                                    .addComponent(DisplayIsbn)
                                    .addComponent(jLabel6))
                                .addGap(31, 31, 31)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                                    .addComponent(jLabel5)
                                    .addComponent(InvenOut,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))))

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                            .addComponent(jLabel7)
                            .addComponent(DisplayStock))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 14,
Short.MAX_VALUE)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                            .addComponent(Destination,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel8))
                        .addGap(17, 17, 17)
```

```java
                    .addComponent(jButton7,
javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(22, 22, 22))
        );

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addGap(0, 0, Short.MAX_VALUE)
                .addComponent(jPanel2,
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(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );

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

    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        //Takes administrator to the update database menu :
        UpdateDatabase UD= new UpdateDatabase();
        UD.setVisible(true);
        setVisible(false);
    }

    private void BookChoiceMouseClicked(java.awt.event.MouseEvent evt) {

    }

    private void BookChoiceMousePressed(java.awt.event.MouseEvent evt) {

    }

    private void BookChoiceMouseReleased(java.awt.event.MouseEvent evt) {

    }

    private void BookChoiceActionPerformed(java.awt.event.ActionEvent evt)
{
        //The functions are called when a book from the "BookChoice"
combobox is chosen
        setISBN();
        setStock();
    }

    private void BookChoiceKeyPressed(java.awt.event.KeyEvent evt) {
```

```java
    }

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

    }

    private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {
        //The function is called when the "Add Data" button is pressed
        addDataOut();
    }

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

    }

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

    /**
     * @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(InventoryOut.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(InventoryOut.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(InventoryOut.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(InventoryOut.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
```

```java
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new InventoryOut().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JComboBox<String> BookChoice;
    private javax.swing.JLabel DateDisplay;
    private javax.swing.JFormattedTextField Destination;
    private javax.swing.JLabel DisplayIsbn;
    private javax.swing.JLabel DisplayStock;
    private javax.swing.JFormattedTextField InvenOut;
    private javax.swing.JButton jButton6;
    private javax.swing.JButton jButton7;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPanel jPanel5;
    // End of variables declaration
}
package Warehouse_Inventory_Management_Software;
import java.awt.Toolkit;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;
public class ViewTransactions extends javax.swing.JFrame {
    public ViewTransactions() {
        initComponents();
        setISBN();
        transactionSearch();

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
    }
    public void setISBN()
    {
        if(BookChoice.getSelectedItem().toString()!="Select")
        {
            try
            {
                Class.forName("com.mysql.cj.jdbc.Driver");
                Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
                String sql1= "Select ISBN from book_identification where
Book_Name=?";
                PreparedStatement pst1= Conn.prepareStatement(sql1);
                pst1.setString(1,BookChoice.getSelectedItem().toString());
                ResultSet rs1= pst1.executeQuery();
```

```java
                rs1.next();
                String Input_ISBN = rs1.getString(1);
                DisplayIsbn.setText(Input_ISBN);
            }
            catch (Exception e)
            {
                JOptionPane.showMessageDialog(null,e);
            }
        }
        else
        {
            DisplayIsbn.setText("");
        }
    }
    /*The transactionSearch() function is used to retrieve all the details
of all transactions made incoming from the transaction_repository table
    based on 2 search parameters: book name and date
    */
    private void transactionSearch()
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
            //When both search paramaters are empty the entire list of
transactions is returned
            if (BookChoice.getSelectedItem().toString()=="Select" &&
DateSearch.getText().trim().isEmpty() )
            {
                String sql= "Select * from transaction_repository";
                PreparedStatement pst= Conn.prepareStatement(sql);
                ResultSet rs = pst.executeQuery();
                Display_Books.setModel(DbUtils.resultSetToTableModel(rs));
            }
            //When one of the search paramaters are entered, the list of
transactions that match the date or book name is returned
            else if (BookChoice.getSelectedItem().toString()=="Select" &&
DateSearch.getText().trim().isEmpty()==false )
            {
                String sql= "Select * from transaction_repository where
Dates=?";
                PreparedStatement pst= Conn.prepareStatement(sql);
                pst.setString(1,DateSearch.getText());
                ResultSet rs = pst.executeQuery();
                Display_Books.setModel(DbUtils.resultSetToTableModel(rs));
            }
            else if (BookChoice.getSelectedItem().toString()!="Select" &&
DateSearch.getText().trim().isEmpty()==true )
            {
                String sql= "Select * from transaction_repository where
ISBN=?";
                PreparedStatement pst= Conn.prepareStatement(sql);
                pst.setString(1,DisplayIsbn.getText());
                ResultSet rs = pst.executeQuery();
                Display_Books.setModel(DbUtils.resultSetToTableModel(rs));
            }
            //When both the search paramaters are entered, the list of
transactions that match the date and book name is returned
```

```java
            else if (BookChoice.getSelectedItem().toString()!="Select" &&
DateSearch.getText().trim().isEmpty()==false )
            {
                String sql= "Select * from transaction_repository where
ISBN=? and Dates=?";
                PreparedStatement pst= Conn.prepareStatement(sql);
                pst.setString(1,DisplayIsbn.getText());
                pst.setString(2,DateSearch.getText());
                ResultSet rs = pst.executeQuery();
                Display_Books.setModel(DbUtils.resultSetToTableModel(rs));
            }
            Conn.close();
            }
        catch(Exception e)
        {
            JOptionPane.showMessageDialog(null,e);
        }
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jScrollPane1 = new javax.swing.JScrollPane();
        Display_Books = new javax.swing.JTable();
        jButton1 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jButton2 = new javax.swing.JButton();
        BookChoice = new javax.swing.JComboBox<>();
        jLabel4 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        DisplayIsbn = new javax.swing.JLabel();
        DateSearch = new javax.swing.JFormattedTextField();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("View Transactions");

        jPanel1.setBackground(new java.awt.Color(204, 204, 204));
        jPanel1.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 3));

        Display_Books.setBackground(new java.awt.Color(153, 153, 153));
        Display_Books.setForeground(new java.awt.Color(255, 255, 255));
        Display_Books.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 [] {
                "Title 1", "Title 2", "Title 3", "Title 4"
            }
        ));
        jScrollPane1.setViewportView(Display_Books);

        jButton1.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N
        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
```

```java
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

    jLabel1.setFont(new java.awt.Font("Tahoma", 1, 11)); // NOI18N
    jLabel1.setText("Choose the name of the book and/ or date of
transaction below (take note that the search is case sensitive)");

    jButton2.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N
    jButton2.setText("Search");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });

    BookChoice.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "Select", "The Monkey King", "Birth of Krshna &Krishna Conquest
/ Young Hanuman & Hanuman the Mighty", "Hungry Caterpillar Billingual",
"Tiny Seed Billingual", "Mixed Up Chameleon Billingual", "Little Vinayak",
"Lizards Tail", "Monkeys on A Fast", "The Boy Who Drew Cats", "Whose lovely
child can you be", "The Rumour", "The Last Bargain", "The Tallest Tale",
"Book worm", "Tak tak", "The Moustache Man", "When the Earth Lost Its
Shapes", "Dorje's Stripes", "Revenge of Puppets", "The Dancing Bear", "An
Elephant in my backyard", "A Big Mouth", "Tit for tat", "The Tiger
Eater's", "The Crocodile's Tail", "The Story and the song", "The Case of
the Stolen Smells", "What Will I Be", "What Could It Be?", "What Will You
Give Me", "Where Shall We Go", "Fetch That Colour", "Let's Roll Out a
Circle", "The Wednesday Bazaar", "Bela Misses Her Train", "Thea's Tree", "A
Pair of Twins", "The Fox and the Crow", "Whimsy", "The Dragon's Toothache",
"Farmer Falgu Goes On A Trip", "Farmer Falgu Goes To The Market", "The
Lions Feast", "The Night Monster", "What did the monster child eat today",
"Princess Easy Pleasy", "Farmer Falgu Goes to the Kumbh Mela", "Farmer
Falgu Goes kite Flying", "Dada's Useless Present", "A Tangle of Brungles",
"The Insect Boy", "Fly Little Fish", "The Clever Tailor", "Sadiq Wants to
Stitch", "Babban Hajjam", "Letter to Ammi", "Papa's Marathon", "Star
Struck", "The Truth about the Tooth", "Thukpa for All", "The Brave Parrot",
"Cat's Egg-Indian", "Daisy Doll", "Sion Misfortune", "One Rainy Day",
"Mountain of Mumbai", "Get OFF that Camel", "Thatha's Pumpkin New Title
2020", "Rats Bigger than Cats New Title 2020" }));
    BookChoice.addMouseListener(new java.awt.event.MouseAdapter() {
        public void mouseClicked(java.awt.event.MouseEvent evt) {
            BookChoiceMouseClicked(evt);
        }
        public void mousePressed(java.awt.event.MouseEvent evt) {
            BookChoiceMousePressed(evt);
        }
        public void mouseReleased(java.awt.event.MouseEvent evt) {
            BookChoiceMouseReleased(evt);
        }
    });
    BookChoice.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            BookChoiceActionPerformed(evt);
        }
    });
    BookChoice.addKeyListener(new java.awt.event.KeyAdapter() {
        public void keyPressed(java.awt.event.KeyEvent evt) {
            BookChoiceKeyPressed(evt);
        }
```

```java
                public void keyReleased(java.awt.event.KeyEvent evt) {
                    BookChoiceKeyReleased(evt);
                }
            });

            jLabel4.setText("Book Name:");

            jLabel6.setText("ISBN: ");

            jLabel2.setText("Date(yyyy-MM-dd)");

            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.Alignme
nt.LEADING)
                        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                            .addGap(122, 122, 122)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                    .addComponent(jLabel4,
javax.swing.GroupLayout.Alignment.TRAILING)
                                    .addComponent(jLabel2,
javax.swing.GroupLayout.Alignment.TRAILING))
                                .addGroup(jPanel1Layout.createSequentialGroup()
                                    .addGap(68, 68, 68)
                                    .addComponent(jLabel6)))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING, false)
                                .addComponent(BookChoice,
javax.swing.GroupLayout.PREFERRED_SIZE, 350,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(DateSearch)
                                .addComponent(DisplayIsbn,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
                            .addGap(44, 44, 44)
                            .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 96,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGap(34, 34, 34))
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
```

```java
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                                .addGap(0, 0, Short.MAX_VALUE)
                                .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 73,
javax.swing.GroupLayout.PREFERRED_SIZE))
                                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 745,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(jLabel1,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))))
                    .addContainerGap())
            );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 23,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING, false)
                        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                                .addComponent(jLabel4)
                                .addComponent(BookChoice,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                .addGroup(jPanel1Layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                                    .addComponent(jLabel6))
                                .addGroup(jPanel1Layout.createSequentialGroup()
                                    .addGap(7, 7, 7)
                                    .addComponent(DisplayIsbn,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)))
                        .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                                .addComponent(jLabel2)
                                .addComponent(DateSearch,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(18, 18, 18))
```

```java
                         .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                             .addGap(0, 0, Short.MAX_VALUE)
                             .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
                             .addGap(40, 40, 40)))
                     .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 632, Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                     .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
                     .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)
        );
        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();
        setLocationRelativeTo(null);
    }// </editor-fold>

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        //Takes administrator to the update database menu:
        UpdateDatabase ud = new UpdateDatabase();
        ud.setVisible(true);
        setVisible(false);

    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        //The function is called when the "Search" button is pressed
        transactionSearch();
    }

    private void BookChoiceMouseClicked(java.awt.event.MouseEvent evt) {

    }

    private void BookChoiceMousePressed(java.awt.event.MouseEvent evt) {

    }
```

```java
    private void BookChoiceMouseReleased(java.awt.event.MouseEvent evt) {

    }

    private void BookChoiceActionPerformed(java.awt.event.ActionEvent evt)
{
        setISBN();
    }

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

    }

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

    }

    /**
     * @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(ViewTransactions.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

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

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

```java
                new ViewTransactions().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JComboBox<String> BookChoice;
    private javax.swing.JFormattedTextField DateSearch;
    private javax.swing.JLabel DisplayIsbn;
    private javax.swing.JTable Display_Books;
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JScrollPane jScrollPane1;
    // End of variables declaration


}
package Warehouse_Inventory_Management_Software;
import java.awt.Toolkit;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.logging.Level;
import java.util.logging.Logger;
public class CreateReports extends javax.swing.JFrame {
    public CreateReports() {
        initComponents();
        setISBN();

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));

    }
    public void setISBN()
    {
        if(BookChoice.getSelectedItem().toString()!="Select" &&
BookChoice.getSelectedItem().toString()!="General" )
        {
            try
            {
                Class.forName("com.mysql.cj.jdbc.Driver");
                Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
                String sql1= "Select ISBN from book_identification where
Book_Name=?";
                PreparedStatement pst1= Conn.prepareStatement(sql1);
                pst1.setString(1,BookChoice.getSelectedItem().toString());
                ResultSet rs1= pst1.executeQuery();
                rs1.next();
                String Input_ISBN = rs1.getString(1);
                DisplayIsbn.setText(Input_ISBN);
```

```java
            }
            catch (Exception e)
            {
                JOptionPane.showMessageDialog(null,e);
            }
        }
        else
        {
            DisplayIsbn.setText("");
        }
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel2 = new javax.swing.JPanel();
        jPanel3 = new javax.swing.JPanel();
        jButton6 = new javax.swing.JButton();
        jPanel5 = new javax.swing.JPanel();
        jLabel3 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        BookChoice = new javax.swing.JComboBox<>();
        jButton7 = new javax.swing.JButton();
        StartDate = new javax.swing.JFormattedTextField();
        EndDate = new javax.swing.JFormattedTextField();
        jLabel6 = new javax.swing.JLabel();
        ReportChoice = new javax.swing.JComboBox<>();
        jLabel1 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        jLabel11 = new javax.swing.JLabel();
        DisplayIsbn = new javax.swing.JLabel();
        jLabel12 = new javax.swing.JLabel();
        jLabel13 = new javax.swing.JLabel();
        jLabel14 = new javax.swing.JLabel();
        jLabel15 = new javax.swing.JLabel();
        jLabel16 = new javax.swing.JLabel();
        NameChoice = new javax.swing.JComboBox<>();
        jScrollPane1 = new javax.swing.JScrollPane();
        Comments = new javax.swing.JTextArea();


        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Create Reports");

        jPanel2.setBackground(new java.awt.Color(153, 153, 153));
        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 3));

        jPanel3.setBackground(new java.awt.Color(102, 102, 102));

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

```java
        javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(20, 20, 20)
                .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 101,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(47, Short.MAX_VALUE))
        );
        jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );

        javax.swing.GroupLayout jPanel5Layout = new
javax.swing.GroupLayout(jPanel5);
        jPanel5.setLayout(jPanel5Layout);
        jPanel5Layout.setHorizontalGroup(

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGap(0, 578, Short.MAX_VALUE)
        );
        jPanel5Layout.setVerticalGroup(

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGap(0, 12, Short.MAX_VALUE)
        );

        jLabel3.setFont(new java.awt.Font("Tahoma", 1, 32)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(240, 240, 240));
        jLabel3.setText("Create Report");

        jLabel4.setText("Book Name:");

        jLabel5.setText("Start Date: ");

        jLabel7.setText("End Date: ");

        BookChoice.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "Select", "General", "The Monkey King", "Birth of Krshna
&Krishna Conquest / Young Hanuman & Hanuman the Mighty", "Hungry
Caterpillar Billingual", "Tiny Seed Billingual", "Mixed Up Chameleon
Billingual", "Little Vinayak", "Lizards Tail", "Monkeys on A Fast", "The
Boy Who Drew Cats", "Whose lovely child can you be", "The Rumour", "The
Last Bargain", "The Tallest Tale", "Book worm", "Tak tak", "The Moustache
```

```
Man", "When the Earth Lost Its Shapes", "Dorje's Stripes", "Revenge of
Puppets", "The Dancing Bear", "An Elephant in my backyard", "A Big Mouth",
"Tit for tat", "The Tiger Eater's", "The Crocodile's Tail", "The Story and
the song", "The Case of the Stolen Smells", "What Will I Be", "What Could
It Be?", "What Will You Give Me", "Where Shall We Go", "Fetch That Colour",
"Let's Roll Out a Circle", "The Wednesday Bazaar", "Bela Misses Her Train",
"Thea's Tree", "A Pair of Twins", "The Fox and the Crow", "Whimsy", "The
Dragon's Toothache", "Farmer Falgu Goes On A Trip", "Farmer Falgu Goes To
The Market", "The Lions Feast", "The Night Monster", "What did the monster
child eat today", "Princess Easy Pleasy", "Farmer Falgu Goes to the Kumbh
Mela", "Farmer Falgu Goes kite Flying", "Dada's Useless Present", "A Tangle
of Brungles", "The Insect Boy", "Fly Little Fish", "The Clever Tailor",
"Sadiq Wants to Stitch", "Babban Hajjam", "Letter to Ammi", "Papa's
Marathon", "Star Struck", "The Truth about the Tooth", "Thukpa for All",
"The Brave Parrot", "Cat's Egg-Indian", "Daisy Doll", "Sion Misfortune",
"One Rainy Day", "Mountain of Mumbai", "Get OFF that Camel", "Thatha's
Pumpkin New Title 2020", "Rats Bigger than Cats New Title 2020" }));
        BookChoice.addMouseListener(new java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                BookChoiceMouseClicked(evt);
            }
            public void mousePressed(java.awt.event.MouseEvent evt) {
                BookChoiceMousePressed(evt);
            }
            public void mouseReleased(java.awt.event.MouseEvent evt) {
                BookChoiceMouseReleased(evt);
            }
        });
        BookChoice.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                BookChoiceActionPerformed(evt);
            }
        });
        BookChoice.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyPressed(java.awt.event.KeyEvent evt) {
                BookChoiceKeyPressed(evt);
            }
            public void keyReleased(java.awt.event.KeyEvent evt) {
                BookChoiceKeyReleased(evt);
            }
        });

        jButton7.setText("Create Report");
        jButton7.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton7ActionPerformed(evt);
            }
        });

        StartDate.setFormatterFactory(new
javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.DateFormatter(new java.text.SimpleDateFormat("yyyy-MM-
dd"))));
        StartDate.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyPressed(java.awt.event.KeyEvent evt) {
                StartDateKeyPressed(evt);
            }
        });

        EndDate.setFormatterFactory(new
javax.swing.text.DefaultFormatterFactory(new
```

```
javax.swing.text.DateFormatter(new java.text.SimpleDateFormat("yyyy-MM-
dd"))));

        jLabel6.setText("ISBN: ");

        ReportChoice.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "Select", "Stock-Based", "Price-Based" }));
        ReportChoice.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                ReportChoiceActionPerformed(evt);
            }
        });

        jLabel1.setText("Type of Report");

        jLabel8.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
        jLabel8.setForeground(new java.awt.Color(255, 255, 255));
        jLabel8.setText("Choose the :");

        jLabel9.setText("1) Type of report you would like to produced");

        jLabel10.setText("2) Would you like a specific report(one book) or
a general report(all books). ");

        jLabel11.setText("If you would choose the latter, select
\"general\".");

        DisplayIsbn.setText("jLabel12");

        jLabel12.setText("Otherwise choose the book you would like to
produce the report for.");

        jLabel13.setText("3) Enter the start and end date for the
report(yyyy-MM-dd)");

        jLabel14.setText("5) Enter any comments you would like ");

        jLabel15.setText("4) Choose your name:");

        jLabel16.setText("Name:");

        NameChoice.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "Select", "Abubucker. M", "Gopinath. D", "Kripakaran. P",
"Sathiskumar. M" }));

        Comments.setColumns(20);
        Comments.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        Comments.setRows(5);
        jScrollPane1.setViewportView(Comments);

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

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel2Layout.createSequentialGroup()
```

```java
                    .addComponent(jPanel3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                        .addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                            .addGroup(jPanel2Layout.createSequentialGroup()
                                .addGap(118, 118, 118)
                                .addComponent(jLabel3,
javax.swing.GroupLayout.PREFERRED_SIZE, 244,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addComponent(jPanel5,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGap(0, 0, Short.MAX_VALUE))
                        .addGroup(jPanel2Layout.createSequentialGroup()
                            .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                .addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                        .addComponent(jLabel12)
                                        .addComponent(jLabel11)
                                        .addComponent(jLabel14)
                                        .addComponent(jLabel13)

.addGroup(jPanel2Layout.createSequentialGroup()
                                        .addGap(41, 41, 41)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                            .addComponent(jLabel5)
                                            .addComponent(jLabel7,
javax.swing.GroupLayout.Alignment.TRAILING))

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                            .addComponent(StartDate,
javax.swing.GroupLayout.PREFERRED_SIZE, 225,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                            .addComponent(EndDate,
javax.swing.GroupLayout.PREFERRED_SIZE, 227,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                                    .addComponent(jLabel15))
                                .addGap(0, 0, Short.MAX_VALUE))
                            .addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
```

```java
                    .addGroup(jPanel2Layout.createSequentialGroup()
                                            .addGap(53, 53, 53)
                                            .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                            .addComponent(ReportChoice,
javax.swing.GroupLayout.PREFERRED_SIZE, 197,
javax.swing.GroupLayout.PREFERRED_SIZE))
                                    .addComponent(jLabel9)
                                    .addComponent(jLabel10)
                                    .addComponent(jLabel8))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                                .addComponent(jLabel2))))
                        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jButton7)
                            .addGap(100, 100, 100))
                        .addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                .addGroup(jPanel2Layout.createSequentialGroup()
                                    .addGap(59, 59, 59)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.TRAILING)
                                        .addComponent(jLabel6)
                                        .addComponent(jLabel4))

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                                        .addComponent(BookChoice,
javax.swing.GroupLayout.PREFERRED_SIZE, 223,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                        .addComponent(DisplayIsbn)))
                                .addGroup(jPanel2Layout.createSequentialGroup()
                                    .addGap(86, 86, 86)
                                    .addComponent(jLabel16)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                    .addComponent(NameChoice,
javax.swing.GroupLayout.PREFERRED_SIZE, 229,
javax.swing.GroupLayout.PREFERRED_SIZE))
                                .addGroup(jPanel2Layout.createSequentialGroup()
                                    .addGap(18, 18, 18)
                                    .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 367,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                        .addContainerGap())))
        );
        jPanel2Layout.setVerticalGroup(
```

```java
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(11, 11, 11)
                .addComponent(jLabel3)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(113, 113, 113)
                        .addComponent(jLabel2))
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(7, 7, 7)
                        .addComponent(jPanel5,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jLabel8)
                        .addGap(10, 10, 10)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                            .addGroup(jPanel2Layout.createSequentialGroup()
                                .addComponent(jLabel9)
                                .addGap(72, 72, 72)
                                .addComponent(jLabel10))
                            .addGroup(jPanel2Layout.createSequentialGroup()
                                .addGap(38, 38, 38)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                                    .addComponent(ReportChoice,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                    .addComponent(jLabel1))))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jLabel11)))
                .addGap(5, 5, 5)
                .addComponent(jLabel12)
                .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                    .addComponent(jLabel4)
                    .addComponent(BookChoice,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                    .addComponent(jLabel6)
                    .addComponent(DisplayIsbn))
```

```java
                    .addGap(18, 18, 18)
                    .addComponent(jLabel13)
                    .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                        .addComponent(StartDate,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel5))

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                        .addComponent(EndDate,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel7))
                    .addGap(18, 18, 18)
                    .addComponent(jLabel15)

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                        .addComponent(jLabel16)
                        .addComponent(NameChoice,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 32,
Short.MAX_VALUE)
                    .addComponent(jLabel14)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 175,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jButton7,
javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addContainerGap())
        );

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
657, javax.swing.GroupLayout.PREFERRED_SIZE)
        );
        layout.setVerticalGroup(
```

```java
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(0, 0, Short.MAX_VALUE))
        );

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

    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        //Takes administrator to the main menu:
        MainMenu menu= new MainMenu();
        menu.setVisible(true);
        setVisible(false);
    }

    private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {
        //Carried out when the "Create Report" button is pressed
        try
        {
            //Converting text to date in the yyyy-MM-dd format

            //Validation to make sure that none of the fields are empty

if(ReportChoice.getSelectedItem().toString()=="Select"||NameChoice.getSelec
tedItem().toString()=="Select"||BookChoice.getSelectedItem().toString()=="S
elect"||StartDate.getText().trim().isEmpty()||EndDate.getText().trim().isEm
pty())
            {
                JOptionPane.showMessageDialog(null,"Please ensure all
fields are filled");
            }
            String sDate1 =StartDate.getText();
            String eDate1= EndDate.getText();
            Date date1 = new SimpleDateFormat("yyyy-MM-dd").parse(sDate1);
            Date date2 = new SimpleDateFormat("yyyy-MM-dd").parse(eDate1);
            //Valudation to make sure that the start date entered is before
the end date entered
            if(date1.after(date2)==true || date1.compareTo(date2)==0)
            {
                JOptionPane.showMessageDialog(null,"Please make sure that
start date is before end date");
            }
            /*Nested if conditions to direct the user to the correct report
page
            In each if condition, paramater passing is used to transfer
data from this Jframe to the
            corresponding Report Jframe*/
            else if (ReportChoice.getSelectedItem().toString()=="Stock-
Based" && BookChoice.getSelectedItem().toString()=="General")
            {
                StockBasedGeneralReport sbgr= new
StockBasedGeneralReport();

StockBasedGeneralReport.Name.setText(CreateReports.NameChoice.getSelectedIt
em().toString());
```

```java
StockBasedGeneralReport.DisplayStartDate.setText(CreateReports.StartDate.ge
tText());

StockBasedGeneralReport.DisplayEndDate.setText(CreateReports.EndDate.getTex
t());

StockBasedGeneralReport.DisplayComments.setText(CreateReports.Comments.getT
ext());
                sbgr.setVisible(true);
                setVisible(false);

            }
            else if (ReportChoice.getSelectedItem().toString()=="Stock-
Based" && BookChoice.getSelectedItem().toString()!="General")
            {
                StockBasedSpecificReport sbcr= new
StockBasedSpecificReport();

StockBasedSpecificReport.Name.setText(CreateReports.NameChoice.getSelectedI
tem().toString());

StockBasedSpecificReport.DisplayStartDate.setText(CreateReports.StartDate.g
etText());

StockBasedSpecificReport.DisplayEndDate.setText(CreateReports.EndDate.getTe
xt());

StockBasedSpecificReport.DisplayComments.setText(CreateReports.Comments.get
Text());

StockBasedSpecificReport.IsbnDisplay.setText(CreateReports.DisplayIsbn.getT
ext());
                sbcr.setVisible(true);
                setVisible(false);
            }
            else if (ReportChoice.getSelectedItem().toString()=="Price-
Based" && BookChoice.getSelectedItem().toString()=="General")
            {
                PriceBasedGeneralReport pbgr= new
PriceBasedGeneralReport();

PriceBasedGeneralReport.Name.setText(CreateReports.NameChoice.getSelectedIt
em().toString());

PriceBasedGeneralReport.DisplayStartDate.setText(CreateReports.StartDate.ge
tText());

PriceBasedGeneralReport.DisplayEndDate.setText(CreateReports.EndDate.getTex
t());

PriceBasedGeneralReport.DisplayComments.setText(CreateReports.Comments.getT
ext());
                pbgr.setVisible(true);
                setVisible(false);
            }
            //Checking whether the user wants a price based specific report
            else if (ReportChoice.getSelectedItem().toString()=="Price-
Based" && BookChoice.getSelectedItem().toString()!="General")
            {
```

```java
                //Creating object to help pass variable values to the next
JFrame
                PriceBasedSpecificReport pbsr= new
PriceBasedSpecificReport();
                //Passing the name, start date, comments, and ISBN to the
report layout

PriceBasedSpecificReport.Name.setText(CreateReports.NameChoice.getSelectedI
tem().toString());

PriceBasedSpecificReport.DisplayStartDate.setText(CreateReports.StartDate.g
etText());

PriceBasedSpecificReport.DisplayEndDate.setText(CreateReports.EndDate.getTe
xt());

PriceBasedSpecificReport.DisplayComments.setText(CreateReports.Comments.get
Text());

PriceBasedSpecificReport.IsbnDisplay.setText(CreateReports.DisplayIsbn.getT
ext());
                //Making the report visible
                pbsr.setVisible(true);
                setVisible(false);
            }
        }
        catch (ParseException ex)
        {

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

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

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

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

    private void BookChoiceKeyPressed(java.awt.event.KeyEvent evt) {
        // TODO add yosetISBN();ur handling code here:
    }

    private void BookChoiceActionPerformed(java.awt.event.ActionEvent evt)
{
        setISBN();
    }

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

    private void BookChoiceMousePressed(java.awt.event.MouseEvent evt) {
```

```java
        // TODO add your handling code here:
    }

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

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

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

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

java.util.logging.Logger.getLogger(CreateReports.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 CreateReports().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JComboBox<String> BookChoice;
    public static javax.swing.JTextArea Comments;
    public static javax.swing.JLabel DisplayIsbn;
    public static javax.swing.JFormattedTextField EndDate;
```

```java
        public static javax.swing.JComboBox<String> NameChoice;
        private javax.swing.JComboBox<String> ReportChoice;
        public static javax.swing.JFormattedTextField StartDate;
        private javax.swing.JButton jButton6;
        private javax.swing.JButton jButton7;
        private javax.swing.JLabel jLabel1;
        private javax.swing.JLabel jLabel10;
        private javax.swing.JLabel jLabel11;
        private javax.swing.JLabel jLabel12;
        private javax.swing.JLabel jLabel13;
        private javax.swing.JLabel jLabel14;
        private javax.swing.JLabel jLabel15;
        private javax.swing.JLabel jLabel16;
        private javax.swing.JLabel jLabel2;
        private javax.swing.JLabel jLabel3;
        private javax.swing.JLabel jLabel4;
        private javax.swing.JLabel jLabel5;
        private javax.swing.JLabel jLabel6;
        private javax.swing.JLabel jLabel7;
        private javax.swing.JLabel jLabel8;
        private javax.swing.JLabel jLabel9;
        private javax.swing.JPanel jPanel2;
        private javax.swing.JPanel jPanel3;
        private javax.swing.JPanel jPanel5;
        private javax.swing.JScrollPane jScrollPane1;
        // End of variables declaration
}
package Warehouse_Inventory_Management_Software;
import java.awt.Graphics;
import java.awt.Graphics2D;
import java.awt.Toolkit;
import java.awt.print.PageFormat;
import java.awt.print.Printable;
import java.awt.print.PrinterException;
import java.awt.print.PrinterJob;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;
public class PriceBasedGeneralReport extends javax.swing.JFrame {
    public PriceBasedGeneralReport()
    {
        initComponents();
        setDate();

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));

    }
    public void CreatePBGR()
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
```

```java
            Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
            String sql="Select
transaction_repository.ISBN,(SUM(Number_Damaged)*PriceRs) as
\"Losses\",(SUM(Inventory_Out)*PriceRs) as
\"Revenue\",((SUM(Inventory_Out)*PriceRs)-(SUM(Number_Damaged)*PriceRs)) as
\"Profits\" from book_identification join transaction_repository on
book_identification.ISBN = transaction_repository.ISBN where
book_identification.ISBN=transaction_repository.ISBN and Dates between ?
and ? group by transaction_repository.ISBN";
            PreparedStatement pst= Conn.prepareStatement(sql);
            pst.setString(1,DisplayStartDate.getText());
            pst.setString(2,DisplayEndDate.getText());
            ResultSet rs = pst.executeQuery();
            Display_Report.setModel(DbUtils.resultSetToTableModel(rs));
            if (Display_Report.getRowCount()==0)
            {
                JOptionPane.showMessageDialog(null,"There are no
transactions in that date range");
                CreateReports cr= new CreateReports();
                cr.setVisible(true);
                setVisible(false);
            }
        }
        catch(Exception e)
        {
            JOptionPane.showMessageDialog(null,e);
        }
    }
    public void setDate()
    {
        DateFormat df = new SimpleDateFormat("yyyy-MM-dd");
        Date dateobj = new Date();
        DateDisplay.setText(df.format(dateobj));
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel2 = new javax.swing.JPanel();
        Report_Print = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        Name = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        DisplayStartDate = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        DisplayEndDate = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        DateDisplay = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        Display_Report = new javax.swing.JTable();
        jLabel5 = new javax.swing.JLabel();
        jScrollPane2 = new javax.swing.JScrollPane();
        DisplayComments = new javax.swing.JTextArea();
        PrintButton = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
```

```java
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Price Based General Report");

        jPanel2.setBackground(new java.awt.Color(255, 255, 255));
        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 2));

        Report_Print.setBackground(new java.awt.Color(255, 255, 255));

Report_Print.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 2));
        Report_Print.setPreferredSize(new java.awt.Dimension(660, 924));

        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36)); //
NOI18N
        jLabel1.setText("Price Based General Report");

        jLabel2.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel2.setText("Made By:");

        Name.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        Name.setText("Name");

        jLabel4.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel4.setText("Start Date: ");

        DisplayStartDate.setFont(new java.awt.Font("Times New Roman", 0,
14)); // NOI18N
        DisplayStartDate.setText("DisplayStartDate");

        jLabel6.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel6.setText("End Date:");

        DisplayEndDate.setFont(new java.awt.Font("Times New Roman", 0,
14)); // NOI18N
        DisplayEndDate.setText("DisplayEndDate");

        jLabel8.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel8.setText("ISBN:");

        jLabel9.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel9.setText("All");

        jLabel10.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel10.setText("Current Date:");

        DateDisplay.setFont(new java.awt.Font("Times New Roman", 0, 14));
// NOI18N
        DateDisplay.setText("DateDisplay");

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

```java
                {null, null, null, null},
                {null, null, null, null},
                {null, null, null, null},
                {null, null, null, null}
            },
            new String [] {
                "Title 1", "Title 2", "Title 3", "Title 4"
            }
        ));

        Display_Report.setAutoResizeMode(javax.swing.JTable.AUTO_RESIZE_ALL_COLUMNS
);
        jScrollPane1.setViewportView(Display_Report);

        jLabel5.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel5.setText("Comments:");

        DisplayComments.setColumns(20);
        DisplayComments.setRows(5);
        jScrollPane2.setViewportView(DisplayComments);

        javax.swing.GroupLayout Report_PrintLayout = new
javax.swing.GroupLayout(Report_Print);
        Report_Print.setLayout(Report_PrintLayout);
        Report_PrintLayout.setHorizontalGroup(

Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
            .addGroup(Report_PrintLayout.createSequentialGroup()

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.LEADING)
                    .addGroup(Report_PrintLayout.createSequentialGroup()
                        .addGap(267, 267, 267)
                        .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(Name))
                    .addGroup(Report_PrintLayout.createSequentialGroup()
                        .addGap(127, 127, 127)
                        .addComponent(jLabel1))
                    .addGroup(Report_PrintLayout.createSequentialGroup()
                        .addGap(38, 38, 38)
                        .addComponent(jLabel4)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(DisplayStartDate)
                        .addGap(29, 29, 29)
                        .addComponent(jLabel6)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(DisplayEndDate)
                        .addGap(18, 18, 18)
                        .addComponent(jLabel8)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jLabel9)
                        .addGap(26, 26, 26)
                        .addComponent(jLabel10)
```

```java
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                .addComponent(DateDisplay))
                        .addGroup(Report_PrintLayout.createSequentialGroup()
                                .addGap(10, 10, 10)

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.LEADING, false)
                                    .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 634, Short.MAX_VALUE)
                                    .addComponent(jLabel5)
                                    .addComponent(jScrollPane2))))
                        .addGap(10, 10, 10))
            );
            Report_PrintLayout.setVerticalGroup(

Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
                .addGroup(Report_PrintLayout.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(jLabel1)

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

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE)
                        .addComponent(jLabel2)
                        .addComponent(Name))

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

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE)
                        .addComponent(jLabel4)
                        .addComponent(DisplayStartDate)
                        .addComponent(jLabel6)
                        .addComponent(DisplayEndDate)
                        .addComponent(jLabel8)
                        .addComponent(jLabel9)
                        .addComponent(jLabel10)
                        .addComponent(DateDisplay))
                    .addGap(20, 20, 20)
                    .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 637, Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jLabel5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 116,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addContainerGap())
            );

            PrintButton.setFont(new java.awt.Font("Times New Roman", 0, 16));
// NOI18N
            PrintButton.setText("Print");
            PrintButton.addActionListener(new java.awt.event.ActionListener() {
                public void actionPerformed(java.awt.event.ActionEvent evt) {
                    PrintButtonActionPerformed(evt);
```

```java
            }
        });

        jButton1.setFont(new java.awt.Font("Times New Roman", 0, 16)); //
NOI18N
        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        jButton4.setFont(new java.awt.Font("Times New Roman", 0, 16)); //
NOI18N
        jButton4.setText("Fetch Data");
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(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(10, 10, 10)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                        .addComponent(Report_Print,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(10, 10, 10))
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                        .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(PrintButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addContainerGap()))))
        );
        jPanel2Layout.setVerticalGroup(

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

```java
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addGap(10, 10, 10)
                    .addComponent(Report_Print,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(PrintButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addContainerGap())
        );

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .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(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, 0))
        );

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

    private void PrintButtonActionPerformed(java.awt.event.ActionEvent evt)
{
        PrinterJob job = PrinterJob.getPrinterJob();
        job.setJobName(" Print Data ");
        job.setPrintable (new Printable()
        {
            public int print(Graphics pg, PageFormat pf, int pageNum)
            {
                pf.setOrientation(PageFormat.LANDSCAPE);
                if (pageNum > 0)
                {
                    return Printable.NO_SUCH_PAGE;
                }
                Graphics2D g2 = (Graphics2D) pg;
```

```java
                g2.translate(pf.getImageableX(), pf.getImageableY());
                g2.scale(0.92641,0.85628);
                Report_Print.paint(g2);
                return Printable.PAGE_EXISTS;
            }
        });
        boolean ok= job.printDialog();
        if(ok)
        {
            try
            {
                job.print();
            }
            catch (PrinterException ex)
            {

            }
        }
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        CreateReports cr = new CreateReports();
        cr.setVisible(true);
        setVisible(false);

    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        CreatePBGR();
    }

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

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

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

java.util.logging.Logger.getLogger(PriceBasedGeneralReport.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 PriceBasedGeneralReport().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JLabel DateDisplay;
    public static javax.swing.JTextArea DisplayComments;
    public static javax.swing.JLabel DisplayEndDate;
    public static javax.swing.JLabel DisplayStartDate;
    private javax.swing.JTable Display_Report;
    public static javax.swing.JLabel Name;
    private javax.swing.JButton PrintButton;
    private javax.swing.JPanel Report_Print;
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton4;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;
    // End of variables declaration
}
package Warehouse_Inventory_Management_Software;
import java.awt.Graphics;
import java.awt.Graphics2D;
import java.awt.Toolkit;
import java.awt.print.PageFormat;
import java.awt.print.Printable;
import java.awt.print.PrinterException;
import java.awt.print.PrinterJob;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;
import java.sql.Connection;
```

```java
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
public class PriceBasedSpecificReport extends javax.swing.JFrame {
    public PriceBasedSpecificReport() {
        initComponents();
        setDate();

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
    }
    public void CreatePBSR()
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
            String sql="Select
transaction_repository.ISBN,(SUM(Number_Damaged)*PriceRs) as
\"Losses\",(SUM(Inventory_Out)*PriceRs) as
\"Revenue\",((SUM(Inventory_Out)*PriceRs)-(SUM(Number_Damaged)*PriceRs)) as
\"Profits\" from book_identification join transaction_repository on
book_identification.ISBN = transaction_repository.ISBN where
book_identification.ISBN=? and transaction_repository.ISBN=? and Dates
between ? and ? group by transaction_repository.ISBN";
            PreparedStatement pst= Conn.prepareStatement(sql);
            pst.setString(1,IsbnDisplay.getText());
            pst.setString(2,IsbnDisplay.getText());
            pst.setString(3,DisplayStartDate.getText());
            pst.setString(4,DisplayEndDate.getText());
            ResultSet rs = pst.executeQuery();
            Display_Report.setModel(DbUtils.resultSetToTableModel(rs));
            if (Display_Report.getRowCount()==0)
            {
                JOptionPane.showMessageDialog(null,"There are no
transactions in that date range for that book");
                CreateReports cr= new CreateReports();
                cr.setVisible(true);
                setVisible(false);
            }
        }
        catch(Exception e)
        {
            JOptionPane.showMessageDialog(null,e);
        }
    }
    public void setDate()
    {
        DateFormat df = new SimpleDateFormat("yyyy-MM-dd");
        Date dateobj = new Date();
        DateDisplay.setText(df.format(dateobj));
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel2 = new javax.swing.JPanel();
        Report_Print = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
```

```java
        jLabel2 = new javax.swing.JLabel();
        Name = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        DisplayStartDate = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        DisplayEndDate = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        DateDisplay = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        Display_Report = new javax.swing.JTable();
        jLabel5 = new javax.swing.JLabel();
        jScrollPane2 = new javax.swing.JScrollPane();
        DisplayComments = new javax.swing.JTextArea();
        IsbnDisplay = new javax.swing.JLabel();
        PrintButton = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Price Based Specific Report");

        jPanel2.setBackground(new java.awt.Color(255, 255, 255));
        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 2));

        Report_Print.setBackground(new java.awt.Color(255, 255, 255));

Report_Print.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 2));
        Report_Print.setPreferredSize(new java.awt.Dimension(660, 924));

        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36)); //
NOI18N
        jLabel1.setText("Price Based Specific Report");

        jLabel2.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel2.setText("Made By:");

        Name.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        Name.setText("Name");

        jLabel4.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel4.setText("Start Date: ");

        DisplayStartDate.setFont(new java.awt.Font("Times New Roman", 0,
14)); // NOI18N
        DisplayStartDate.setText("DisplayStartDate");

        jLabel6.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel6.setText("End Date:");

        DisplayEndDate.setFont(new java.awt.Font("Times New Roman", 0,
14)); // NOI18N
        DisplayEndDate.setText("DisplayEndDate");
```

```java
        jLabel8.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel8.setText("ISBN:");

        jLabel10.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel10.setText("Current Date:");

        DateDisplay.setFont(new java.awt.Font("Times New Roman", 0, 14));
// NOI18N
        DateDisplay.setText("DateDisplay");

        Display_Report.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 [] {
                "Title 1", "Title 2", "Title 3", "Title 4"
            }
        ));
        jScrollPane1.setViewportView(Display_Report);

        jLabel5.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel5.setText("Comments:");

        DisplayComments.setColumns(20);
        DisplayComments.setRows(5);
        jScrollPane2.setViewportView(DisplayComments);

        IsbnDisplay.setFont(new java.awt.Font("Times New Roman", 0, 14));
// NOI18N
        IsbnDisplay.setText("ISBN");

        javax.swing.GroupLayout Report_PrintLayout = new
javax.swing.GroupLayout(Report_Print);
        Report_Print.setLayout(Report_PrintLayout);
        Report_PrintLayout.setHorizontalGroup(

Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
            .addGroup(Report_PrintLayout.createSequentialGroup()
                .addContainerGap(36, Short.MAX_VALUE)

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.CENTER)
                    .addGroup(Report_PrintLayout.createSequentialGroup()
                        .addComponent(jLabel4)
                        .addGap(7, 7, 7)
                        .addComponent(DisplayStartDate)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 29,
Short.MAX_VALUE)
                        .addComponent(jLabel6)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(DisplayEndDate)
```

```java
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jLabel8)

                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                            .addComponent(IsbnDisplay)

                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jLabel10)

                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                            .addComponent(DateDisplay))
                        .addGroup(Report_PrintLayout.createSequentialGroup()
                            .addComponent(jLabel2)

                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                            .addComponent(Name))
                        .addComponent(jLabel1))
                    .addContainerGap(36, Short.MAX_VALUE))
                .addGroup(Report_PrintLayout.createSequentialGroup()
                    .addGap(10, 10, 10)

                .addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.LEADING)
                        .addGroup(Report_PrintLayout.createSequentialGroup()
                            .addComponent(jLabel5)

                    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                        .addGroup(Report_PrintLayout.createSequentialGroup()

                .addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.LEADING)
                                .addComponent(jScrollPane2)
                                .addComponent(jScrollPane1))
                            .addGap(10, 10, 10))))
            );
            Report_PrintLayout.setVerticalGroup(

Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
                .addGroup(Report_PrintLayout.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(jLabel1)

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

                .addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE)
                        .addComponent(jLabel2)
                        .addComponent(Name))

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

                .addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE)
                        .addComponent(jLabel4)
                        .addComponent(DisplayStartDate)
                        .addComponent(jLabel6)
                        .addComponent(DisplayEndDate)
```

```java
                    .addComponent(jLabel8)
                    .addComponent(jLabel10)
                    .addComponent(DateDisplay)
                    .addComponent(IsbnDisplay))
                .addGap(18, 18, 18)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 639, Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 116,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap())
        );

        PrintButton.setFont(new java.awt.Font("Times New Roman", 0, 16));
// NOI18N
        PrintButton.setText("Print");
        PrintButton.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                PrintButtonActionPerformed(evt);
            }
        });

        jButton1.setFont(new java.awt.Font("Times New Roman", 0, 16)); //
NOI18N
        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        jButton4.setFont(new java.awt.Font("Times New Roman", 0, 16)); //
NOI18N
        jButton4.setText("Fetch Data");
        jButton4.setActionCommand("Fetch Data");
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(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.Alignme
nt.LEADING)
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                        .addGap(10, 10, 10)
```

```java
                                .addComponent(Report_Print,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
                            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                                .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                .addComponent(PrintButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGap(10, 10, 10))
        );
        jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addComponent(Report_Print,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                    .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(PrintButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
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(jPanel2,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addGap(0, 0, 0))
```

```java
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        );

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

    private void PrintButtonActionPerformed(java.awt.event.ActionEvent evt)
{
        PrinterJob job = PrinterJob.getPrinterJob();
        job.setJobName(" Print Data ");
        job.setPrintable (new Printable()
        {
            public int print(Graphics pg, PageFormat pf, int pageNum)
            {
                pf.setOrientation(PageFormat.LANDSCAPE);
                if (pageNum > 0)
                {
                    return Printable.NO_SUCH_PAGE;
                }
                Graphics2D g2 = (Graphics2D) pg;
                g2.translate(pf.getImageableX(), pf.getImageableY());
                g2.scale(0.92641,0.85628);
                Report_Print.paint(g2);
                return Printable.PAGE_EXISTS;
            }
        });
        boolean ok= job.printDialog();
        if(ok)
        {
            try
            {
                job.print();
            }
            catch (PrinterException ex)
            {

            }
        }
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        CreateReports cr = new CreateReports();
        cr.setVisible(true);
        setVisible(false);
    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        CreatePBSR();
    }

    /**
     * @param args the command line arguments
```

```java
     */
    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(PriceBasedSpecificReport.class.getName()
).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

java.util.logging.Logger.getLogger(PriceBasedSpecificReport.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 PriceBasedSpecificReport().setVisible(true);
            }
        });
    }
// Java SWING components used to create UI
    // Variables declaration - do not modify
    private javax.swing.JLabel DateDisplay;
    public static javax.swing.JTextArea DisplayComments;
    public static javax.swing.JLabel DisplayEndDate;
    public static javax.swing.JLabel DisplayStartDate;
    private javax.swing.JTable Display_Report;
    public static javax.swing.JLabel IsbnDisplay;
    public static javax.swing.JLabel Name;
    private javax.swing.JButton PrintButton;
    private javax.swing.JPanel Report_Print;
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton4;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
```

```java
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;
    // End of variables declaration
}
package Warehouse_Inventory_Management_Software;
import java.awt.Graphics;
import java.awt.Graphics2D;
import java.awt.Toolkit;
import java.awt.print.PageFormat;
import java.awt.print.Printable;
import java.awt.print.PrinterException;
import java.awt.print.PrinterJob;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;
public class StockBasedGeneralReport extends javax.swing.JFrame {
    public StockBasedGeneralReport() {
        initComponents();
        setDate();

setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
    }
    public void CreateSBGR()
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
            String sql="Select
transaction_repository.ISBN,SUM(Number_Damaged) as \"No.Damaged\",
SUM(Inventory_In) as \"Inventory In\",SUM(Inventory_Out) as \"Inventory
Out\",(SUM(Inventory_In)-SUM(Number_Damaged)-SUM(Inventory_Out)) as \"Stock
Flow\",((SUM(Number_Damaged)/SUM(Inventory_In))*100) as \"% Damaged\" from
book_identification JOIN transaction_repository ON book_identification.ISBN
= transaction_repository.ISBN where
book_identification.ISBN=transaction_repository.ISBN and Dates between ?
and ? group by transaction_repository.ISBN";
            PreparedStatement pst= Conn.prepareStatement(sql);
            pst.setString(1,DisplayStartDate.getText());
            pst.setString(2,DisplayEndDate.getText());
            ResultSet rs = pst.executeQuery();
            Display_Report.setModel(DbUtils.resultSetToTableModel(rs));
            if (Display_Report.getRowCount()==0)
            {
                JOptionPane.showMessageDialog(null,"There are no
transactions in that date range");
```

```java
                CreateReports cr= new CreateReports();
                cr.setVisible(true);
                setVisible(false);
            }
        }
        catch(Exception e)
        {
            JOptionPane.showMessageDialog(null,e);
        }

    }
    public void setDate()
    {
        DateFormat df = new SimpleDateFormat("yyyy-MM-dd");
        Date dateobj = new Date();
        DateDisplay.setText(df.format(dateobj));
    }
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel2 = new javax.swing.JPanel();
        Report_Print = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        Name = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        DisplayStartDate = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        DisplayEndDate = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        DateDisplay = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        Display_Report = new javax.swing.JTable();
        jLabel5 = new javax.swing.JLabel();
        jScrollPane2 = new javax.swing.JScrollPane();
        DisplayComments = new javax.swing.JTextArea();
        PrintButton = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Stock Based General Report");

        jPanel2.setBackground(new java.awt.Color(255, 255, 255));
        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 2));

        Report_Print.setBackground(new java.awt.Color(255, 255, 255));

Report_Print.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 2));
        Report_Print.setPreferredSize(new java.awt.Dimension(660, 924));

        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36)); //
NOI18N
        jLabel1.setText("Stock Based General Report");
```

```java
        jLabel2.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel2.setText("Made By:");

        Name.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        Name.setText("Name");

        jLabel4.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel4.setText("Start Date: ");

        DisplayStartDate.setFont(new java.awt.Font("Times New Roman", 0,
14)); // NOI18N
        DisplayStartDate.setText("DisplayStartDate");

        jLabel6.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel6.setText("End Date:");

        DisplayEndDate.setFont(new java.awt.Font("Times New Roman", 0,
14)); // NOI18N
        DisplayEndDate.setText("DisplayEndDate");

        jLabel8.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel8.setText("ISBN:");

        jLabel9.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel9.setText("All");

        jLabel10.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel10.setText("Current Date:");

        DateDisplay.setFont(new java.awt.Font("Times New Roman", 0, 14));
// NOI18N
        DateDisplay.setText("DateDisplay");

        Display_Report.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 [] {
                "Title 1", "Title 2", "Title 3", "Title 4"
            }
        ));

Display_Report.setAutoResizeMode(javax.swing.JTable.AUTO_RESIZE_ALL_COLUMNS
);
        Display_Report.setName(""); // NOI18N
        jScrollPane1.setViewportView(Display_Report);

        jLabel5.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel5.setText("Comments:");
```

```java
        DisplayComments.setColumns(20);
        DisplayComments.setRows(5);
        jScrollPane2.setViewportView(DisplayComments);

        javax.swing.GroupLayout Report_PrintLayout = new
javax.swing.GroupLayout(Report_Print);
        Report_Print.setLayout(Report_PrintLayout);
        Report_PrintLayout.setHorizontalGroup(

Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
            .addGroup(Report_PrintLayout.createSequentialGroup()

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.LEADING)
                    .addGroup(Report_PrintLayout.createSequentialGroup()

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.LEADING)

.addGroup(Report_PrintLayout.createSequentialGroup()
                                .addGap(294, 294, 294)
                                .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                .addComponent(Name))

.addGroup(Report_PrintLayout.createSequentialGroup()
                                .addGap(120, 120, 120)
                                .addComponent(jLabel1))

.addGroup(Report_PrintLayout.createSequentialGroup()
                                .addContainerGap()
                                .addComponent(jLabel5)))
                        .addGap(0, 90, Short.MAX_VALUE))
                    .addGroup(Report_PrintLayout.createSequentialGroup()
                        .addGap(10, 10, 10)

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.LEADING)
                            .addComponent(jScrollPane1)
                            .addComponent(jScrollPane2))))
                .addGap(10, 10, 10))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
Report_PrintLayout.createSequentialGroup()
                .addGap(0, 0, Short.MAX_VALUE)
                .addComponent(jLabel4)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(DisplayStartDate)
                .addGap(29, 29, 29)
                .addComponent(jLabel6)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(DisplayEndDate)
                .addGap(18, 18, 18)
                .addComponent(jLabel8)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel9)
                .addGap(26, 26, 26)
```

```java
                        .addComponent(jLabel10)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(DateDisplay)
                        .addGap(27, 27, 27))
                );
        Report_PrintLayout.setVerticalGroup(

Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
                .addGroup(Report_PrintLayout.createSequentialGroup()
                        .addContainerGap()
                        .addComponent(jLabel1)
                        .addGap(1, 1, 1)

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE)
                                .addComponent(jLabel2)
                                .addComponent(Name))
                        .addGap(18, 18, 18)

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE)
                                .addComponent(jLabel4)
                                .addComponent(DisplayStartDate)
                                .addComponent(jLabel6)
                                .addComponent(DisplayEndDate)
                                .addComponent(jLabel8)
                                .addComponent(jLabel9)
                                .addComponent(jLabel10)
                                .addComponent(DateDisplay))
                        .addGap(15, 15, 15)
                        .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 630, Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jLabel5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 123,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addContainerGap())
                );

        PrintButton.setFont(new java.awt.Font("Times New Roman", 0, 16));
// NOI18N
        PrintButton.setText("Print");
        PrintButton.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                PrintButtonActionPerformed(evt);
            }
        });

        jButton1.setFont(new java.awt.Font("Times New Roman", 0, 16)); //
NOI18N
        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
```

```java
        });

        jButton4.setFont(new java.awt.Font("Times New Roman", 0, 16)); //
NOI18N
        jButton4.setText("Fetch Data");
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(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.Alignme
nt.LEADING)
                    .addGroup(jPanel2Layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(PrintButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                        .addGap(10, 10, 10)
                        .addComponent(Report_Print,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)))
                .addGap(10, 10, 10))
        );
        jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addComponent(Report_Print,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

```java
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(PrintButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap())
        );

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .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(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, 0))
        );

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

    private void PrintButtonActionPerformed(java.awt.event.ActionEvent evt)
{
        PrinterJob job = PrinterJob.getPrinterJob();
        job.setJobName(" Print Data ");

        job.setPrintable (new Printable()
        {
            public int print(Graphics pg, PageFormat pf, int pageNum)
            {
                pf.setOrientation(PageFormat.LANDSCAPE);
                if (pageNum > 0)
                {
                    return Printable.NO_SUCH_PAGE;
                }
                Graphics2D g2 = (Graphics2D) pg;
                g2.translate(pf.getImageableX(), pf.getImageableY());
                g2.scale(0.92641,0.85628);
                Report_Print.paint(g2);
                return Printable.PAGE_EXISTS;
            }
        });
        boolean ok= job.printDialog();
```

```java
        if(ok)
        {
            try
            {
                job.print();
            }
            catch (PrinterException ex)
            {

            }
        }
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        CreateReports cr = new CreateReports();
        cr.setVisible(true);
        setVisible(false);

    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        CreateSBGR();
    }

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

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

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

```java
                java.util.logging.Logger.getLogger(StockBasedGeneralReport.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 StockBasedGeneralReport().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JLabel DateDisplay;
    public static javax.swing.JTextArea DisplayComments;
    public static javax.swing.JLabel DisplayEndDate;
    public static javax.swing.JLabel DisplayStartDate;
    private javax.swing.JTable Display_Report;
    public static javax.swing.JLabel Name;
    private javax.swing.JButton PrintButton;
    private javax.swing.JPanel Report_Print;
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton4;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;
    // End of variables declaration
}
package Warehouse_Inventory_Management_Software;
import java.awt.Graphics;
import java.awt.Graphics2D;
import java.awt.Toolkit;
import java.awt.print.PageFormat;
import java.awt.print.Printable;
import java.awt.print.PrinterException;
import java.awt.print.PrinterJob;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;
public class StockBasedSpecificReport extends javax.swing.JFrame {
    public StockBasedSpecificReport() {
        initComponents();
```

```java
        setIconImage(Toolkit.getDefaultToolkit().getImage(getClass().getResource("k
aradi.jpg")));
        setDate();

    }
    public void CreateSBSR()
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection Conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/cs_ia_data","root"
,"xeno28972");
            String sql="select
transaction_repository.ISBN,SUM(Number_Damaged) as \"No.Damaged\",
SUM(Inventory_In) as \"Inventory In\","
            + "SUM(Inventory_Out) as \"Inventory Out\",(SUM(Inventory_In)-
SUM(Number_Damaged)-SUM(Inventory_Out)) as \"Stock Flow\","
            + "((SUM(Number_Damaged)/SUM(Inventory_In))*100) as \"%
Damaged\" from book_identification JOIN transaction_repository "
            + "ON book_identification.ISBN = transaction_repository.ISBN
where book_identification.ISBN=? and transaction_repository.ISBN=? "
            + "and Dates between ? and ? group by
transaction_repository.ISBN";
            PreparedStatement pst= Conn.prepareStatement(sql);
            pst.setString(1,IsbnDisplay.getText());
            pst.setString(2,IsbnDisplay.getText());
            pst.setString(3,DisplayStartDate.getText());
            pst.setString(4,DisplayEndDate.getText());
            ResultSet rs = pst.executeQuery();
            Display_Report.setModel(DbUtils.resultSetToTableModel(rs));
            if (Display_Report.getRowCount()==0)
            {
                JOptionPane.showMessageDialog(null,"There are no
transactions in that date range for that book");
                CreateReports cr= new CreateReports();
                cr.setVisible(true);
                setVisible(false);
            }
        }
        catch(Exception e)
        {
            JOptionPane.showMessageDialog(null,e);
        }

    }
    public void setDate()
    {
        DateFormat df = new SimpleDateFormat("yyyy-MM-dd");
        Date dateobj = new Date();
        DateDisplay.setText(df.format(dateobj));
    }

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

        jPanel2 = new javax.swing.JPanel();
        Report_Print = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
```

```java
        jLabel2 = new javax.swing.JLabel();
        Name = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        DisplayStartDate = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        DisplayEndDate = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        IsbnDisplay = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        DateDisplay = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        Display_Report = new javax.swing.JTable();
        jLabel5 = new javax.swing.JLabel();
        jScrollPane2 = new javax.swing.JScrollPane();
        DisplayComments = new javax.swing.JTextArea();
        PrintButton = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Stock Based Specific Report");

        jPanel2.setBackground(new java.awt.Color(255, 255, 255));
        jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 2));

        Report_Print.setBackground(new java.awt.Color(255, 255, 255));

Report_Print.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0), 2));
        Report_Print.setPreferredSize(new java.awt.Dimension(660, 924));

        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 36)); //
NOI18N
        jLabel1.setText("Stock Based Specific Report");

        jLabel2.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel2.setText("Made By:");

        Name.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        Name.setText("Name");

        jLabel4.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel4.setText("Start Date: ");

        DisplayStartDate.setFont(new java.awt.Font("Times New Roman", 0,
14)); // NOI18N
        DisplayStartDate.setText("DisplayStartDate");

        jLabel6.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel6.setText("End Date:");

        DisplayEndDate.setFont(new java.awt.Font("Times New Roman", 0,
14)); // NOI18N
        DisplayEndDate.setText("DisplayEndDate");
```

```java
        jLabel8.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel8.setText("ISBN:");

        IsbnDisplay.setFont(new java.awt.Font("Times New Roman", 0, 14));
// NOI18N
        IsbnDisplay.setText("ISBN");

        jLabel10.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel10.setText("Current Date:");

        DateDisplay.setFont(new java.awt.Font("Times New Roman", 0, 14));
// NOI18N
        DateDisplay.setText("DateDisplay");

        Display_Report.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 [] {
                "Title 1", "Title 2", "Title 3", "Title 4"
            }
        ));
        jScrollPane1.setViewportView(Display_Report);

        jLabel5.setFont(new java.awt.Font("Times New Roman", 0, 14)); //
NOI18N
        jLabel5.setText("Comments:");

        DisplayComments.setColumns(20);
        DisplayComments.setRows(5);
        jScrollPane2.setViewportView(DisplayComments);

        javax.swing.GroupLayout Report_PrintLayout = new
javax.swing.GroupLayout(Report_Print);
        Report_Print.setLayout(Report_PrintLayout);
        Report_PrintLayout.setHorizontalGroup(

Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
            .addGroup(Report_PrintLayout.createSequentialGroup()

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.LEADING)
                    .addGroup(Report_PrintLayout.createSequentialGroup()

.addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.LEADING)

.addGroup(Report_PrintLayout.createSequentialGroup()
                                .addGap(6, 6, 6)
                                .addComponent(jLabel4)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                .addComponent(DisplayStartDate)
                                .addGap(29, 29, 29)
                                .addComponent(jLabel6)
```

```java
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                        .addComponent(DisplayEndDate)
                                        .addGap(23, 23, 23)
                                        .addComponent(jLabel8)
                                        .addGap(10, 10, 10)
                                        .addComponent(IsbnDisplay,
javax.swing.GroupLayout.DEFAULT_SIZE, 48, Short.MAX_VALUE)
                                        .addGap(16, 16, 16)
                                        .addComponent(jLabel10)
                                        .addGap(18, 18, 18))

                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
Report_PrintLayout.createSequentialGroup()
                                        .addGap(0, 0, Short.MAX_VALUE)
                                        .addComponent(jLabel2)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                        .addComponent(Name)
                                        .addGap(192, 192, 192)))
                                .addComponent(DateDisplay))
                            .addGroup(Report_PrintLayout.createSequentialGroup()
                                .addGap(10, 10, 10)
                                .addComponent(jScrollPane1)))
                        .addGap(10, 10, 10))
                    .addGroup(Report_PrintLayout.createSequentialGroup()
                        .addContainerGap()

                .addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(Report_PrintLayout.createSequentialGroup()
                                    .addComponent(jLabel5)
                                    .addGap(0, 0, Short.MAX_VALUE))
                                .addComponent(jScrollPane2))
                            .addContainerGap())
                        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
Report_PrintLayout.createSequentialGroup()
                            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                            .addComponent(jLabel1)
                            .addGap(105, 105, 105))
                );
                Report_PrintLayout.setVerticalGroup(

Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(Report_PrintLayout.createSequentialGroup()
                            .addContainerGap()
                            .addComponent(jLabel1)

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

                .addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                .addComponent(jLabel2)
                                .addComponent(Name))

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

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

```java
                        .addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE)
                            .addComponent(jLabel4)
                            .addComponent(DisplayStartDate)
                            .addComponent(jLabel6)
                            .addComponent(DisplayEndDate))

                        .addGroup(Report_PrintLayout.createParallelGroup(javax.swing.GroupLayout.Al
ignment.BASELINE)
                            .addComponent(IsbnDisplay,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                            .addComponent(jLabel10)
                            .addComponent(DateDisplay)
                            .addComponent(jLabel8)))
                    .addGap(18, 18, 18)
                    .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 645, Short.MAX_VALUE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jLabel5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 110,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addContainerGap())
            );

        PrintButton.setFont(new java.awt.Font("Times New Roman", 0, 16));
// NOI18N
        PrintButton.setText("Print");
        PrintButton.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                PrintButtonActionPerformed(evt);
            }
        });

        jButton1.setFont(new java.awt.Font("Times New Roman", 0, 16)); //
NOI18N
        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        jButton4.setFont(new java.awt.Font("Times New Roman", 0, 16)); //
NOI18N
        jButton4.setText("Fetch Data");
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
        jPanel2.setLayout(jPanel2Layout);
        jPanel2Layout.setHorizontalGroup(
```

```java
            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                .addGap(10, 10, 10)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.TRAILING)
                    .addComponent(Report_Print,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(PrintButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(10, 10, 10))
        );
        jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING
)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addComponent(Report_Print,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.BASELINE)
                    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(PrintButton,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap())
        );

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

```java
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jPanel2,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addGap(0, 0, 0))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jPanel2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, 0))
        );

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

    private void PrintButtonActionPerformed(java.awt.event.ActionEvent evt)
{
        //Printer Instance is created when the "Print" button is clicked
        PrinterJob job = PrinterJob.getPrinterJob();
        job.setJobName(" Print Data ");
        //The characteristics of the printable sheet are determined
        job.setPrintable (new Printable()
        {
            public int print(Graphics pg, PageFormat pf, int pageNum)
            {
                pf.setOrientation(PageFormat.LANDSCAPE);
                if (pageNum > 0)
                {
                    return Printable.NO_SUCH_PAGE;
                }
                Graphics2D g2 = (Graphics2D) pg;
                g2.translate(pf.getImageableX(), pf.getImageableY());
                //Scaling of Report_Print Jframe to the A4 sheet size
                g2.scale(0.92641,0.85628);
                Report_Print.paint(g2);
                return Printable.PAGE_EXISTS;
            }
        });
        //Checking whether the button "OK" is pressed in the print dialogue
        boolean ok= job.printDialog();
        if(ok)
        {
            try
            {
                //Document is printed
                job.print();
            }
            catch (PrinterException ex)
            {

            }
        }
    }
```

```java
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        CreateReports cr = new CreateReports();
        cr.setVisible(true);
        setVisible(false);
    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        CreateSBSR();
    }

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

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

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

java.util.logging.Logger.getLogger(StockBasedSpecificReport.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 StockBasedSpecificReport().setVisible(true);
            }
        });
    }
```

```java
    // Variables declaration - do not modify
    private javax.swing.JLabel DateDisplay;
    public static javax.swing.JTextArea DisplayComments;
    public static javax.swing.JLabel DisplayEndDate;
    public static javax.swing.JLabel DisplayStartDate;
    private javax.swing.JTable Display_Report;
    public static javax.swing.JLabel IsbnDisplay;
    public static javax.swing.JLabel Name;
    private javax.swing.JButton PrintButton;
    private javax.swing.JPanel Report_Print;
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton4;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;
    // End of variables declaration
}
```

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