**UPDATE FORM**

import java.awt.Toolkit;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JOptionPane;

import static my.reuse.Connections.closeConnection;

import static my.reuse.Connections.makeConnection;

public class UpdateForm extends javax.swing.JPanel {

public UpdateForm() {

initComponents();

try{

Statement st=makeConnection();

ResultSet rs=null;

rs=st.executeQuery("select book\_isbn from Book");

jComboBox1.addItem("Select Book ISBN");

while(rs.next()){

long c=rs.getInt(1);

jComboBox1.addItem(c+"");}

closeConnection();

}catch(Exception e){

System.out.println(e); }

}

@SuppressWarnings("unchecked")

private void initComponents() {

jTextField5 = new javax.swing.JTextField();

jLabel5 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jLabel1 = new javax.swing.JLabel();

jTextField1 = new javax.swing.JTextField();

jLabel6 = new javax.swing.JLabel();

jTextField2 = new javax.swing.JTextField();

jTextField3 = new javax.swing.JTextField();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jTextField4 = new javax.swing.JTextField();

jComboBox1 = new javax.swing.JComboBox<>();

jLabel8 = new javax.swing.JLabel();

setBorder(javax.swing.BorderFactory.createTitledBorder("Update the book"));

setPreferredSize(new java.awt.Dimension(512, 454));

jTextField5.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

jTextField5.addKeyListener(new java.awt.event.KeyAdapter() {

public void keyTyped(java.awt.event.KeyEvent evt) {jTextField5KeyTyped(evt); }});

jLabel5.setFont(new java.awt.Font("Tahoma", 1, 11));

jLabel5.setText("Stock Position");

jLabel5.setPreferredSize(new java.awt.Dimension(75, 14));

jButton1.setText("Update");

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));

jLabel1.setText("Book Title");

jLabel1.setPreferredSize(new java.awt.Dimension(75, 14));

jTextField1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

jLabel6.setFont(new java.awt.Font("Tahoma", 1, 11));

jLabel6.setText("Book ISBN");

jLabel6.setPreferredSize(new java.awt.Dimension(75, 14));

jTextField2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

jTextField2.addKeyListener(new java.awt.event.KeyAdapter() {

public void keyTyped(java.awt.event.KeyEvent evt) {

jTextField2KeyTyped(evt); } });

jTextField3.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

jTextField3.addKeyListener(new java.awt.event.KeyAdapter() {

public void keyTyped(java.awt.event.KeyEvent evt) {jTextField3KeyTyped(evt); }});

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 11));

jLabel2.setText("Author");

jLabel2.setPreferredSize(new java.awt.Dimension(75, 14));

jLabel3.setFont(new java.awt.Font("Tahoma", 1, 11));

jLabel3.setText("Publisher");

jLabel3.setPreferredSize(new java.awt.Dimension(75, 14));

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 11));

jLabel4.setText("Price");

jLabel4.setPreferredSize(new java.awt.Dimension(75, 14));

jTextField4.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

jTextField4.addKeyListener(new java.awt.event.KeyAdapter() {

public void keyTyped(java.awt.event.KeyEvent evt) {jTextField4KeyTyped(evt); }});

jComboBox1.addItemListener(new java.awt.event.ItemListener() {

public void itemStateChanged(java.awt.event.ItemEvent evt) {

jComboBox1ItemStateChanged(evt); }});

jLabel8.setForeground(java.awt.Color.red);

jLabel8.setText(" ");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);

this.setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup().addGap(23, 23, 23)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING) .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, 84, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, 84, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 84, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 84, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 84, javax.swing.GroupLayout.PREFERRED\_SIZE) .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE,84, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

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

.addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED\_SIZE, 120, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createSequentialGroup()

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 125, javax.swing.GroupLayout.PREFERRED\_SIZE) .addGap(18, 18, 18)

.addComponent(jLabel8, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED\_SIZE, 348, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED\_SIZE, 120, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, 348, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, 136, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 348, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(40, Short.MAX\_VALUE)) );

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup() .addContainerGap()

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

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, 32, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(29, 29, 29)

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

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 32, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(29, 29, 29)

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

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, 32, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(29, 29, 29)

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

.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED\_SIZE, 32, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

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

.addGroup(layout.createSequentialGroup() .addGap(29, 29, 29)

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

.addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED\_SIZE, 32, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(29, 29, 29)

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

.addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED\_SIZE, 32, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(29, 29, 29)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

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

.addComponent(jLabel8))) .addContainerGap())

); }

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

jLabel8.setText("");

long bisbn;

int sp;

String bn,an,pn;

float p;

bisbn=Long.parseLong(jComboBox1.getSelectedItem().toString());

bn=jTextField1.getText();

if(bn.equals("")){

jLabel8.setText("\*Invalid Book Title");

jTextField1.requestFocus();

return;

}

an=jTextField2.getText();

if(an.equals("")||validateAlpha(an)){

jLabel8.setText("\*Invalid Author Name");

jTextField1.requestFocus();

return;}

pn=jTextField3.getText();

if(pn.equals("")||validateAlphaD(pn)){

jLabel8.setText("\*Invalid Publisher Name");

jTextField2.requestFocus();

return;}

try{

p=Float.parseFloat(jTextField4.getText());

}catch(Exception e){

jLabel8.setText("\*Invalid Price");

jTextField4.requestFocus();

return;}

try{

sp=Integer.parseInt(jTextField5.getText());

}catch(Exception e){

jLabel8.setText("\*Invalid Stock Position");

jTextField5.requestFocus();

return;}

Statement st=null;

try{

st=makeConnection();

ResultSet rs=st.executeQuery("select \* from author where author\_name='"+an+"'");

if(!rs.next()){

st.executeUpdate("insert into author values('"+an+"','-')");

}

st.executeUpdate(

"update Book set book\_isbn= "+bisbn+", book\_title= '"+bn+"', author='"+an+"', publisher='"+pn+"', price="+p+", stock\_position="+sp+" where book\_isbn="+bisbn);

closeConnection();

JOptionPane.showMessageDialog(this, "Values Updated");

jComboBox1.setSelectedIndex(0);

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

jTextField4.setText(""); jTextField5.setText("");}

catch(Exception e){

System.out.println(e);}

}

public boolean validateAlpha(String text){

for(int i=0;i<text.length();i++){

char c=text.charAt(i);

if(!((c>='a'&&c<='z')||(c>='A'&&c<='Z')||c==32)){

return true;

} }

return false;

}

public boolean validateAlphaD(String text){

for(int i=0;i<text.length();i++){

char c=text.charAt(i);

if(!((c>='a'&&c<='z')||(c>='A'&&c<='Z')||c=='.'||c==32)){

return true; }

} return false;

}

private void jComboBox1ItemStateChanged(java.awt.event.ItemEvent evt) {

try{

String item=jComboBox1.getSelectedItem().toString();

if(item.equals("Select Book ISBN")){}

else{

long bisbn=Integer.parseInt(item);

Statement st=makeConnection();

ResultSet rs=st.executeQuery("select \* from Book where book\_isbn= "+bisbn);

if(rs.next()){

jTextField1.setText(rs.getString(2));

jTextField2.setText(rs.getString(3));

jTextField3.setText(rs.getString(4));

jTextField4.setText(rs.getFloat(5)+"");

jTextField5.setText(rs.getInt(6)+"");

closeConnection(); }

}

}catch(Exception e) {

System.out.println(e);

jTextField1.setText("");

jTextField2.setText("");

jTextField3.setText("");

jTextField4.setText("");

jTextField5.setText("");}

}

private void jTextField2KeyTyped(java.awt.event.KeyEvent evt) {

char ch=evt.getKeyChar();

if(!((ch>='a'&&ch<='z')||(ch>='A'&&ch<='Z')||ch=='.'||(ch==8)||(ch==32))) {

Toolkit.getDefaultToolkit().beep();

evt.consume(); }

}

private void jTextField3KeyTyped(java.awt.event.KeyEvent evt) {

char ch=evt.getKeyChar();

if(!((ch>='a'&&ch<='z')||(ch>='A'&&ch<='Z')||(ch=='.')||(ch==8)||(ch==32))) {

Toolkit.getDefaultToolkit().beep();

evt.consume(); }

}

private void jTextField4KeyTyped(java.awt.event.KeyEvent evt) {

char ch=evt.getKeyChar();

if(!((ch>='0'&&ch<='9')||ch=='.'||(ch==8))) {

Toolkit.getDefaultToolkit().beep();

evt.consume(); }

}

private void jTextField5KeyTyped(java.awt.event.KeyEvent evt) {

char ch=evt.getKeyChar();

if(!((ch>='0'&&ch<='9')||(ch==8))) {

Toolkit.getDefaultToolkit().beep();

evt.consume(); }

}

private javax.swing.JButton jButton1;

private javax.swing.JComboBox<String> jComboBox1;

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 jLabel8;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

private javax.swing.JTextField jTextField3;

private javax.swing.JTextField jTextField4;

private javax.swing.JTextField jTextField5;

}