



## FINAL PROJECT

LORELEI T. ROBLES  
CPE-2203

### OUTPUT SCREEN SHOT

**ENTER ACCOUNT**

ENTER NAME

PASSWORD

Login

Sign up

BATANGAS STATE UNIVERSITY

### Log In Window

**NEW ACCOUNT**

ENTER NAME

ENTER SR-CODE

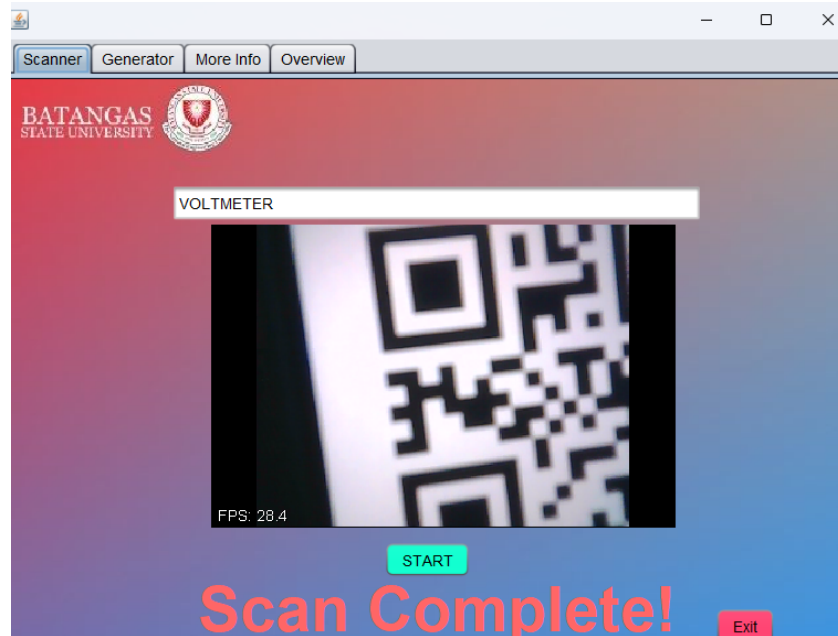
PASSWORD

Sign up

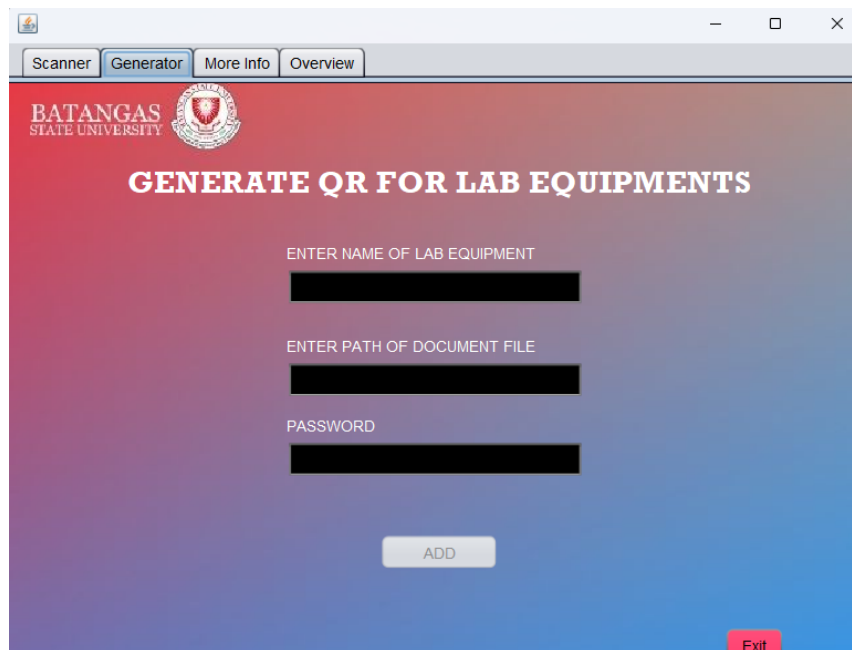
BACK

BATANGAS STATE UNIVERSITY

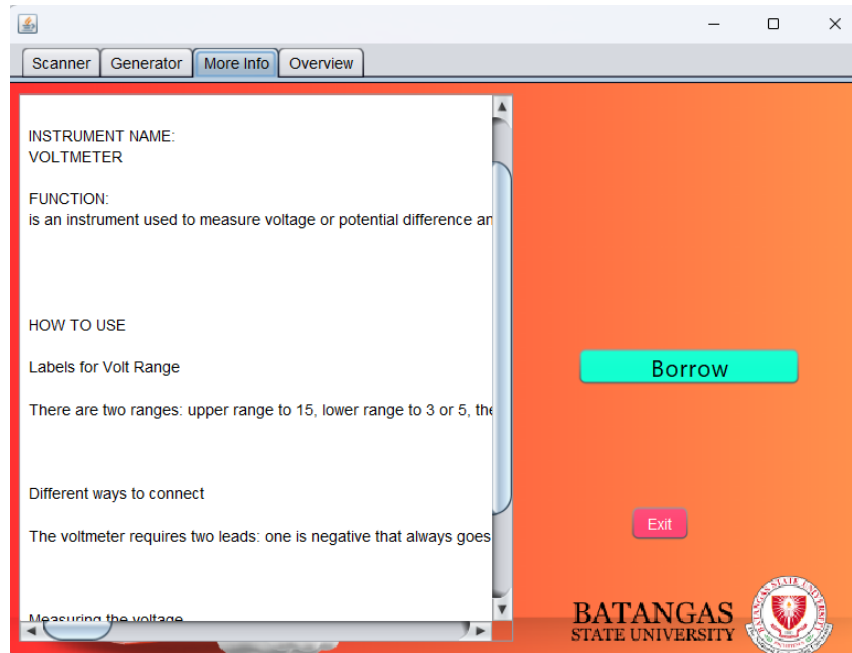
### Sign Up Window



**App - Scanning Tab where the QR code scanning happen if students want to borrow an equipment**



**This is where Lab Managers generate QR codes by filling up all the information needed**

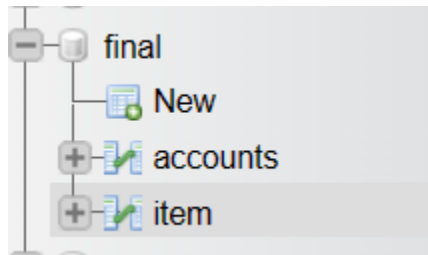


**This is where students borrow and the information of the equipment**

Scanner Generator More Info **Overview**

ID	Item	Possession	Status
5	AMMETER		Available
6	VOLTmeter	Lorelei	Borrowed
7	OHMMETER		Available
8	OSCILLOSCOPE		Available
9	MULTIMETER		Available

**This is the overview of the borrower and the equipments remaining and yet to be borrowed**



## PhpMyAdmin

Server: 127.0.0.1 » Database: final » Table: item

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 4 (5 total, Query took 0.0002 seconds.)

`SELECT * FROM `item``

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	ID	Name	Path	Possession	Status
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	5	AMMETER	C:\Users\Lorelei\Downloads\ELECTRICAL INSTRUMENTS...		Available
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	6	VOLTMETER	C:\Users\Lorelei\Downloads\ELECTRICAL INSTRUMENTS ...	Lorelei	Borrowed
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	7	OHMMETER	C:\Users\Lorelei\Downloads\Ohmmeter.docx		Available
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	8	OSCILLOSCOPE	C:\Users\Lorelei\Downloads\Oscilloscope.docx		Available
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	9	MULTIMETER	C:\Users\Lorelei\Downloads\Multimeter.docx		Available

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

## The items section

Extra options

	ID	Name	Pass	SR
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	2	Lorelei	123	123
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	Jayson	123	21-02337
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	4	Mickus	123	21-08635

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#)

## Accounts section



## **CODE**

App.Java

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
 * license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GuiForms/JFrame.java to edit this
 * template
 */
package electrical;

import org.apache.poi.xwpf.usermodel.XWPFDocument;
import com.github.sarxos.webcam.Webcam;
import com.github.sarxos.webcam.WebcamPanel;
import com.github.sarxos.webcam.WebcamResolution;
import com.google.zxing.BarcodeFormat;
import com.google.zxing.BinaryBitmap;
import com.google.zxing.LuminanceSource;
import com.google.zxing.MultiFormatReader;
import com.google.zxing.NotFoundException;
import com.google.zxing.Result;
import com.google.zxing.WriterException;
import com.google.zxing.client.j2se.BufferedImageLuminanceSource;
import com.google.zxing.client.j2se.MatrixToImageWriter;
import com.google.zxing.common.BitMatrix;
import com.google.zxing.common.HybridBinarizer;
import com.google.zxing.qrcode.QRCodeWriter;
import java.awt.Dimension;
import java.awt.image.BufferedImage;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.nio.file.FileSystems;
import java.nio.file.Path;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.List;
```



```
import java.util.Vector;
import java.util.concurrent.Executor;
import java.util.concurrent.Executors;
import java.util.concurrent.ThreadFactory;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.SwingUtilities;
import javax.swing.event.DocumentEvent;
import javax.swing.event.DocumentListener;
import javax.swing.table.DefaultTableModel;
import org.apache.poi.xwpf.usermodel.XWPFParagraph;
/**
 *
 * @author Lorelei
 */
public class App extends javax.swing.JFrame implements Runnable, ThreadFactory{
    private WebcamPanel panel = null;
    private Webcam webcam = null;
    private Executor executor = Executors.newSingleThreadExecutor(this);

    Result result = null;
    BufferedImage image = null;

    String txtstatus = "Scanning...";
    String status = "Unknown";
    int B_R = 0;
    private static final String DB_URL = "jdbc:mysql://localhost:3306/final";
    private static final String DB_USERNAME = "root";
    private static final String DB_PASSWORD = "";

    // Define a connection object
    private Connection conn;
    private HashMap<String, ArrayList<String>> optionsMap;
    // Establish the database connection
    public void ctd() {
        try {
            conn = DriverManager.getConnection(DB_URL, DB_USERNAME, DB_PASSWORD);
            System.out.println("Connected to the database.");
        } catch (SQLException e) {
            System.out.println("Failed to connect to the database.");
            e.printStackTrace();
        }
    }
}
/**
 * Creates new form App
 */
```





```
public App() {
    ctd();
    initComponents();
    initWebcam();
    table_update();
}

private void table_update(){

    try {
        PreparedStatement pst = conn.prepareStatement("SELECT * FROM item");
        ResultSet stcRs = pst.executeQuery();

        ResultSetMetaData stcRSMD = stcRs.getMetaData();
        int stcCC = stcRSMD.getColumnCount();
        DefaultTableModel stcDFT = (DefaultTableModel) Check.getModel();
        stcDFT.setRowCount(0);

        while (stcRs.next()){
            Vector stcV2 = new Vector();

            for(int ii = 1; ii <= stcCC; ii++){
                stcV2.add(stcRs.getString("ID"));
                stcV2.add(stcRs.getString("Name"));
                stcV2.add(stcRs.getString("Possession"));
                stcV2.add(stcRs.getString("Status"));
            }
            stcDFT.addRow(stcV2);
        }
    } catch (SQLException ex) {
        Logger.getLogger(App.class.getName()).log(Level.SEVERE, null, ex);
    }
}

/**
 * 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() {

    jTabbedPane5 = new javax.swing.JTabbedPane();
```



```
jPanel1 = new javax.swing.JPanel();
camera = new javax.swing.JPanel();
start = new javax.swing.JButton();
qr = new javax.swing.JTextField();
lbStart = new javax.swing.JLabel();
Exit2 = new javax.swing.JButton();
jLabel1 = new javax.swing.JLabel();
jPanel2 = new javax.swing.JPanel();
Exit1 = new javax.swing.JButton();
jLabel4 = new javax.swing.JLabel();
pathDIR = new javax.swing.JTextField();
jLabel3 = new javax.swing.JLabel();
eqNAME = new javax.swing.JTextField();
jLabel2 = new javax.swing.JLabel();
add = new javax.swing.JButton();
passIN = new javax.swing.JPasswordField();
jLabel6 = new javax.swing.JLabel();
jLabel7 = new javax.swing.JLabel();
jPanel3 = new javax.swing.JPanel();
requestbtn = new javax.swing.JButton();
Exit = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
documentArea = new javax.swing.JTextArea();
jLabel5 = new javax.swing.JLabel();
jPanel4 = new javax.swing.JPanel();
jScrollPane2 = new javax.swing.JScrollPane();
Check = new javax.swing.JTable();
jLabel8 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(0, 0, 0));
getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jTabbedPane5.setBackground(new java.awt.Color(0, 255, 204));

jPanel1.setBackground(new java.awt.Color(0, 102, 102));
jPanel1.setForeground(new java.awt.Color(255, 255, 255));
jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

camera.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
jPanel1.add(camera, new org.netbeans.lib.awtextra.AbsoluteConstraints(160, 110, 350,
230));

start.setBackground(new java.awt.Color(0, 255, 204));
start.setText("START");
start.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
```





```
startActionPerformed(evt);
    }
});
jPanel1.add(start, new org.netbeans.lib.awtextra.AbsoluteConstraints(290, 350, -1, -1));
jPanel1.add(qr, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 80, 400, -1));

lbStart.setFont(new java.awt.Font("Tekton Pro Cond", 1, 48)); // NOI18N
lbStart.setForeground(new java.awt.Color(255, 102, 102));
lbStart.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
lbStart.setText(txtstatus);
jPanel1.add(lbStart, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 350, 400, 101));

Exit2.setBackground(new java.awt.Color(255, 51, 102));
Exit2.setText("Exit");
Exit2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        Exit2ActionPerformed(evt);
    }
});
jPanel1.add(Exit2, new org.netbeans.lib.awtextra.AbsoluteConstraints(540, 400, -1, -1));

jLabel1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/electrical/1aaaA.jpg"))); // NOI18N
jPanel1.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 650, 470));

jTabbedPane5.addTab("Scanner", jPanel1);

jPanel2.setBackground(new java.awt.Color(0, 102, 102));
jPanel2.setForeground(new java.awt.Color(255, 255, 255));
jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

Exit1.setBackground(new java.awt.Color(255, 51, 102));
Exit1.setText("Exit");
Exit1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        Exit1ActionPerformed(evt);
    }
});
jPanel2.add(Exit1, new org.netbeans.lib.awtextra.AbsoluteConstraints(540, 410, -1, -1));

jLabel4.setForeground(new java.awt.Color(255, 255, 255));
jLabel4.setText("PASSWORD");
jPanel2.add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 250, 218, -1));

pathDIR.setBackground(new java.awt.Color(0, 0, 0));
```



```
pathDIR.setForeground(new java.awt.Color(255, 255, 255));
// Add a document listener to the text field
pathDIR.getDocument().addDocumentListener(new DocumentListener() {
    @Override
    public void insertUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
    public void removeUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
    public void changedUpdate(DocumentEvent e) {
        updateButtonState();
    }

    private void updateButtonState() {
        // Check if all three text fields have at least one character
        boolean enableButton = !eqNAME.getText().isEmpty() &&
            !pathDIR.getText().isEmpty() &&
            passIN.getPassword().length > 0;
        add.setEnabled(enableButton);
    }
});
jPanel2.add(pathDIR, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 210, 224,
-1));

jLabel3.setForeground(new java.awt.Color(255, 255, 255));
jLabel3.setText("ENTER PATH OF DOCUMENT FILE");
jPanel2.add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 190, 218,
-1));

eqNAME.setBackground(new java.awt.Color(0, 0, 0));
eqNAME.setForeground(new java.awt.Color(255, 255, 255));
// Add a document listener to the text field
eqNAME.getDocument().addDocumentListener(new DocumentListener() {
    @Override
    public void insertUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
    public void removeUpdate(DocumentEvent e) {
        updateButtonState();
    }
})
```



```
@Override
public void changedUpdate(DocumentEvent e) {
    updateButtonState();
}

private void updateButtonState() {
    // Check if all three text fields have at least one character
    boolean enableButton = !eqNAME.getText().isEmpty() &&
        !pathDIR.getText().isEmpty() &&
        passIN.getPassword().length > 0;
    add.setEnabled(enableButton);
}
});
jPanel2.add(eqNAME, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 140,
224, -1));

jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("ENTER NAME OF LAB EQUIPMENT");
jPanel2.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 120, 215,
-1));

add.setBackground(new java.awt.Color(0, 255, 204));
add.setText("ADD");
add.setEnabled(false); // Initially disable the button
add.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        addActionPerformed(evt);
    }
});
jPanel2.add(add, new org.netbeans.lib.awtextra.AbsoluteConstraints(280, 340, 90, -1));

passIN.setBackground(new java.awt.Color(0, 0, 0));
passIN.setForeground(new java.awt.Color(255, 255, 255));
// Add a document listener to the text field
passIN.getDocument().addDocumentListener(new DocumentListener() {
    @Override
    public void insertUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
    public void removeUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
```



```
public void changedUpdate(DocumentEvent e) {
    updateButtonState();
}

private void updateButtonState() {
    // Check if all three text fields have at least one character
    boolean enableButton = !eqNAME.getText().isEmpty() &&
        !pathDIR.getText().isEmpty() &&
        passIN.getPassword().length > 0;
    add.setEnabled(enableButton);
}
});
jPanel2.add(passIN, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 270, 224,
-1));

jLabel6.setFont(new java.awt.Font("Rockwell", 1, 24)); // NOI18N
jLabel6.setForeground(new java.awt.Color(255, 255, 255));
jLabel6.setText("GENERATE QR FOR LAB EQUIPMENTS ");
jPanel2.add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(90, 60, -1, -1));

jLabel7.setIcon(new
javax.swing.ImageIcon("C:\\Users\\Lorelei\\Downloads\\1aaaA.jpg")); // NOI18N
jPanel2.add(jLabel7, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 650, 460));

jTabbedPane5.addTab("Generator", jPanel2);

jPanel3.setBackground(new java.awt.Color(0, 102, 102));
jPanel3.setForeground(new java.awt.Color(255, 255, 255));
jPanel3.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

requestbtn.setBackground(new java.awt.Color(0, 255, 204));
requestbtn.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
requestbtn.setText(status);
requestbtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        requestbtnActionPerformed(evt);
    }
});
jPanel3.add(requestbtn, new org.netbeans.lib.awtextra.AbsoluteConstraints(430, 200,
170, 30));

Exit.setBackground(new java.awt.Color(255, 51, 102));
Exit.setForeground(new java.awt.Color(255, 255, 255));
Exit.setText("Exit");
Exit.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        ExitActionPerformed(evt);
    }
});
```



```
}  
});  
jPanel3.add(Exit, new org.netbeans.lib.awtextra.AbsoluteConstraints(470, 320, -1, -1));  
  
documentArea.setColumns(20);  
documentArea.setRows(5);  
jScrollPane1.setViewportView(documentArea);  
  
jPanel3.add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(6, 6, 378,  
420));  
  
jLabel5.setIcon(new javax.swing.ImageIcon(getClass().getResource("/electrical/1aaa  
A1.png"))); // NOI18N  
jPanel3.add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, -20, 650,  
470));  
  
jTabbedPane5.addTab("More Info", jPanel3);  
  
jPanel4.setBackground(new java.awt.Color(0, 102, 102));  
jPanel4.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());  
  
Check.setBackground(new java.awt.Color(0, 102, 102));  
Check.setForeground(new java.awt.Color(255, 255, 255));  
Check.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 [] {  
        "ID", "Item", "Possession", "Status"  
    }  
));  
jScrollPane2.setViewportView(Check);  
  
jPanel4.add(jScrollPane2, new org.netbeans.lib.awtextra.AbsoluteConstraints(10, 10,  
620, 457));  
  
jLabel8.setIcon(new javax.swing.ImageIcon(getClass().getResource("/electrical/1aaa  
C.png"))); // NOI18N  
jPanel4.add(jLabel8, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 650, 470));  
  
jTabbedPane5.addTab("Overview", jPanel4);  
  
getContentPane().add(jTabbedPane5, new  
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 650, 520));
```



```
setSize(new java.awt.Dimension(664, 502));
setLocationRelativeTo(null);
} // </editor-fold>

private void addActionPerformed(java.awt.event.ActionEvent evt) {
    String pass = "Shared Password";

    if (pass.equals(new String(passIN.getPassword()))) {

        try {
            generateQRcode(eqNAME.getText(), 1250, 1250, outputQr);    // TODO add your
handling code here:
        } catch (WriterException ex) {
            Logger.getLogger(App.class.getName()).log(Level.SEVERE, null, ex);
        }

        try {
            String selectSql = "SELECT * FROM item WHERE name = ?";
            PreparedStatement selectStatement = conn.prepareStatement(selectSql);
            selectStatement.setString(1, eqNAME.getText());
            ResultSet resultSet = selectStatement.executeQuery();

            if (resultSet.next()) {
                // Item already exists, perform the update
                JOptionPane.showMessageDialog(null, "Item already entered");

            } else {
                String insertSql = "INSERT INTO item (name, path, possession, status) VALUES
(?, ?, ?, ?)";
                PreparedStatement preparedStatement = conn.prepareStatement(insertSql);
                preparedStatement.setString(1, eqNAME.getText());
                preparedStatement.setString(2, pathDIR.getText());
                preparedStatement.setString(3, "");
                preparedStatement.setString(4, "Available");
                preparedStatement.executeUpdate();
            } catch (NumberFormatException ex) {
                JOptionPane.showMessageDialog(null, "Please enter entries");
            } catch (SQLException ex) {
                Logger.getLogger(App.class.getName()).log(Level.SEVERE, null, ex);
            }
        }

        System.out.println("done");

        table_update();
    } else {
```





```
}
eqNAME.setText("");
pathDIR.setText("");
passIN.setText("");
}

private void startActionPerformed(java.awt.event.ActionEvent evt) {
webcam.close();
SwingUtilities.invokeLater(new Runnable() {
@Override
public void run() {
// Create a new instance of your JFrame form
App newForm = new App();
newForm.setVisible(true);

// Dispose the existing form
dispose();
}
}); // TODO add your handling code here:
}

private void requestbtnActionPerformed(java.awt.event.ActionEvent evt) {
if (B_R == 0) {

} else if (B_R == 1) {

String Name = JOptionPane.showInputDialog(null, "Enter Borrower's name:");
if (Name != null && !Name.isEmpty()) {

try {
String updateSql = "UPDATE item SET status = ?, possession = ? WHERE name = ?";
PreparedStatement updateStatement = conn.prepareStatement(updateSql);
updateStatement.setString(1, "Borrowed");
updateStatement.setString(2, Name);
updateStatement.setString(3, result.getText());
updateStatement.executeUpdate();
} catch (SQLException ex) {
Logger.getLogger(App.class.getName()).log(Level.SEVERE, null, ex);
}
status = "Return";
requestbtn.setText(status);
B_R = 2;
} else {
JOptionPane.showMessageDialog(null, "You didn't enter a name.");
}
} else if (B_R == 2) {
String namedb = getname(result.getText());
```



```
String Name = JOptionPane.showInputDialog(null, "Enter Borrower's name:");
if (namedb.equals(Name)) {
    try {
        String updateSql = "UPDATE item SET status = ?, possession = ? WHERE name = ?";
        PreparedStatement updateStatement = conn.prepareStatement(updateSql);
        updateStatement.setString(1, "Available");
        updateStatement.setString(2, "");
        updateStatement.setString(3, result.getText());
        updateStatement.executeUpdate();
    } catch (SQLException ex) {
        Logger.getLogger(App.class.getName()).log(Level.SEVERE, null, ex);
    }
    status = "Borrow";
    requestbtn.setText(status);
    B_R = 1;
}
}
table_update(); // TODO add your handling code here:
}

private void ExitActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    System.exit(0);
}

private void Exit1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    System.exit(0);
}

private void Exit2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    System.exit(0);
}

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

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

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

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

/* Create and display the form */
java.awt.EventQueue.invokeLater(() -> {
    new App().setVisible(true);
});
}
private void initWebcam(){
    Dimension size = WebcamResolution.QVGA.getSize();
    webcam = Webcam.getDefault();
    webcam.setViewSize(size);

    panel = new WebcamPanel(webcam);
    panel.setPreferredSize(size);
    panel.setFPSDisplayed(true);

    camera.add(panel, new org.netbeans.lib.awtextra.AbsoluteConstraints(0,0,350,230));

    executor.execute(this);
}
```



```
// Variables declaration - do not modify
private javax.swing.JTable Check;
private javax.swing.JButton Exit;
private javax.swing.JButton Exit1;
private javax.swing.JButton Exit2;
private javax.swing.JButton add;
private javax.swing.JPanel camera;
private javax.swing.JTextArea documentArea;
private javax.swing.JTextField eqNAME;
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 jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
private javax.swing.JPanel jPanel4;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTabbedPane jTabbedPane5;
private javax.swing.JLabel lbStart;
private javax.swing.JPasswordField passIN;
private javax.swing.JTextField pathDIR;
private javax.swing.JTextField qr;
private javax.swing.JButton requestbtn;
private javax.swing.JButton start;
// End of variables declaration

@Override
public void run() {
    start.setEnabled(false);
    do{
        txtstatus = "Scanning...";
        try {
            Thread.sleep(100);
        } catch (InterruptedException ex) {
            Logger.getLogger(App.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
```



```
if(webcam.isOpen()){
    if((image =webcam.getImage()) == null){
        continue;
    }
}

LuminanceSource source = new BufferedImageLuminanceSource(image);
BinaryBitmap bitmap = new BinaryBitmap(new HybridBinarizer(source));

try {
    result = new MultiFormatReader().decode(bitmap);
} catch (NotFoundException ex) {

}

if(result != null){
    qr.setText(result.getText());
    txtstatus = "Scan Complete!";
    lbStart.setText(txtstatus);
    start.setEnabled(true);

    String filePath = getFile(result.getText());
    XWPFDocument document;
    try {
        FileInputStream fis = new FileInputStream(filePath);
        document = new XWPFDocument(fis);

        String docs = "";
        // Extract the content from the document
        List<XWPFParagraph> paragraphList = document.getParagraphs();
        for (XWPFParagraph paragraph: paragraphList) {
            docs = docs + "\n" + paragraph.getText();
        }
        documentArea.setText(docs);

    } catch (FileNotFoundException e){
        System.out.println(filePath);
    } catch (IOException e) {
        JOptionPane.showMessageDialog(this, "Failed to load the document.", "Error",
JOptionPane.ERROR_MESSAGE);
        e.printStackTrace();
    }
}
```



```
        return;
    }
    if (filePath.isEmpty()) {
        JOptionPane.showMessageDialog(this, "Please enter a file path.", "Error",
JOptionPane.ERROR_MESSAGE);
    }
    String stats = getstats(result.getText());

    if ("Available".equals(stats)) {
        status = "Borrow";
        requestbtn.setText(status);
        B_R = 1;
    } else {
        status = "Return";
        requestbtn.setText(status);
        B_R = 2;
    }

    break;
}
}while(true);

}
public static final String outputQr= "C:\\Users\\Lorelei\\Downloads\\outputqr.png";
//placeholder file path
public static void generateQRcode(String text, int width, int height, String filepath) throws
WriterException{
    QRCodeWriter qc = new QRCodeWriter();
    BitMatrix bm = qc.encode(text,BarcodeFormat.QR_CODE,width, height);
    Path pobj = FileSystems.getDefault().getPath(filepath);
    try {
        MatrixToImageWriter.writeToPath(bm, "PNG", pobj);
    } catch (IOException ex) {
        Logger.getLogger(App.class.getName()).log(Level.SEVERE, null, ex);
    }
}

}
private String getname(String selectedItem) {
    String file = null;

    try {
        String query = "SELECT possession FROM item WHERE name = ?";
        PreparedStatement statement = conn.prepareStatement(query);
        statement.setString(1, selectedItem);
        ResultSet resultSet = statement.executeQuery();
```





```
        if (resultSet.next()) {
            file = resultSet.getString("Possession");
        }

        resultSet.close();
        statement.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return file;
}

private String getstats(String selectedItem) {
    String file = null;

    try {
        String query = "SELECT status FROM item WHERE name = ?";
        PreparedStatement statement = conn.prepareStatement(query);
        statement.setString(1, selectedItem);
        ResultSet resultSet = statement.executeQuery();

        if (resultSet.next()) {
            file = resultSet.getString("Status");
        }

        resultSet.close();
        statement.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return file;
}

private String getfile(String selectedItem) {
    String file = null;

    try {
        String query = "SELECT path FROM item WHERE name = ?";
        PreparedStatement statement = conn.prepareStatement(query);
        statement.setString(1, selectedItem);
        ResultSet resultSet = statement.executeQuery();

        if (resultSet.next()) {
            file = resultSet.getString("Path");
        }

        resultSet.close();
        statement.close();
    } catch (SQLException e) {
```



```
e.printStackTrace();
    }
    return file;
}

@Override
public Thread newThread(Runnable r){
    Thread t = new Thread(r, "My Thread");
    t.setDaemon(true);
    return t;
}

}
```

#### Login.Java

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

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;

/**
 *
 * @author Lorelei
 */
public class Login extends javax.swing.JFrame {
    private static final String DB_URL = "jdbc:mysql://localhost:3306/final";
    private static final String DB_USERNAME = "root";
    private static final String DB_PASSWORD = "";
    String result = null;
```



```
public void ctd() {
    try {
        conn = DriverManager.getConnection(DB_URL, DB_USERNAME, DB_PASSWORD);
        System.out.println("Connected to the database.");
    } catch (SQLException e) {
        System.out.println("Failed to connect to the database.");
        e.printStackTrace();
    }
}

// Define a connection object
private Connection conn;
/**
 * Creates new form Login
 */
public Login() {
    ctd();
    initComponents();
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    passIN = new javax.swing.JTextField();
    nameIN = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jLabel5 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setBackground(new java.awt.Color(0, 0, 0));
    getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jPanel1.setBackground(new java.awt.Color(0, 0, 0));
    jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

    jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
```



```
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("ENTER ACCOUNT");
jPanel1.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 440, 230,
49));

jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("ENTER NAME");
jPanel1.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 510, 230,
-1));

jLabel4.setForeground(new java.awt.Color(255, 255, 255));
jLabel4.setText("PASSWORD");
jPanel1.add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 580, 230,
-1));

passIN.setBackground(new java.awt.Color(0, 0, 0));
passIN.setForeground(new java.awt.Color(255, 255, 255));
jPanel1.add(passIN, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 600, 230,
-1));

nameIN.setBackground(new java.awt.Color(0, 0, 0));
nameIN.setForeground(new java.awt.Color(255, 255, 255));
jPanel1.add(nameIN, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 530, 230,
-1));

jButton1.setBackground(new java.awt.Color(0, 255, 204));
jButton1.setText("Login");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jPanel1.add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(270, 660, 90,
-1));

jButton2.setBackground(new java.awt.Color(0, 255, 204));
jButton2.setText("Sign up");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
jPanel1.add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(270, 700, 90,
-1));

jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setIcon(new javax.swing.ImageIcon(getClass().getResource("/electrical/Blue 3D
```



```
English Parts of Speech Noun Educational Presentation.gif"))); // NOI18N
jPanel1.add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 370, 650,
510));

getContentPane().add(jPanel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0,
-380, 650, 880));

setSize(new java.awt.Dimension(664, 501));
setLocationRelativeTo(null);
} // </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    String pass = getpass(nameIN.getText());

    if (pass.equals(passIN.getText())){
        App newForm = new App();
        newForm.setVisible(true);

        // Dispose the existing form
        dispose();
    } else {
        JOptionPane.showMessageDialog(null, "Please enter the correct Name and
Password");
        nameIN.setText("");
        passIN.setText("");
    }

    // TODO add your handling code here:
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    Signup newForm = new Signup();
    newForm.setVisible(true);

    // Dispose the existing form
    dispose(); // 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(Login.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);
    } catch (InstantiationException ex) {

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JPanel jPanel1;
private javax.swing.JTextField nameIN;
private javax.swing.JTextField passIN;
// End of variables declaration
```





```
private String getpass(String selectedItem) {  
    String file = null;  
  
    try {  
        String query = "SELECT pass FROM accounts WHERE name = ?";  
        PreparedStatement statement = conn.prepareStatement(query);  
        statement.setString(1, selectedItem);  
        ResultSet resultSet = statement.executeQuery();  
  
        if (resultSet.next()) {  
            file = resultSet.getString("Pass");  
        }  
  
        resultSet.close();  
        statement.close();  
    } catch (SQLException e) {  
        e.printStackTrace();  
    }  
    return file;  
}  
}
```

#### Signup.Java

```
/*  
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this  
 license  
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this  
 template  
 */  
package electrical;  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.SQLException;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.swing.JOptionPane;  
import javax.swing.event.DocumentEvent;  
import javax.swing.event.DocumentListener;  
  
/**
```



```
*
* @author Lorelei
*/
public class Signup extends javax.swing.JFrame {
    private static final String DB_URL = "jdbc:mysql://localhost:3306/final";
    private static final String DB_USERNAME = "root";
    private static final String DB_PASSWORD = "";
    String result = null;
    public void ctd() {
        try {
            conn = DriverManager.getConnection(DB_URL, DB_USERNAME, DB_PASSWORD);
            System.out.println("Connected to the database.");
        } catch (SQLException e) {
            System.out.println("Failed to connect to the database.");
            e.printStackTrace();
        }
    }
    // Define a connection object
    private Connection conn;
    /**
     * Creates new form Signup
     */
    public Signup() {
        ctd();
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        srIN = new javax.swing.JTextField();
        jLabel4 = new javax.swing.JLabel();
        nameIN = new javax.swing.JTextField();
        Sign = new javax.swing.JButton();
        passIN = new javax.swing.JPasswordField();
        jButton1 = new javax.swing.JButton();
        jLabel5 = new javax.swing.JLabel();
    }
}
```



```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jPanel1.setBackground(new java.awt.Color(0, 0, 0));
jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
jLabel1.setText("NEW ACCOUNT");
jPanel1.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 100, 230,
49));

jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("ENTER NAME");
jPanel1.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 160, 201,
-1));

jLabel3.setForeground(new java.awt.Color(255, 255, 255));
jLabel3.setText("ENTER SR-CODE");
jPanel1.add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 210, 224,
-1));

srIN.setBackground(new java.awt.Color(0, 0, 0));
srIN.setForeground(new java.awt.Color(255, 255, 255));
srIN.getDocument().addDocumentListener(new DocumentListener() {
    @Override
    public void insertUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
    public void removeUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
    public void changedUpdate(DocumentEvent e) {
        updateButtonState();
    }
})

private void updateButtonState() {
    // Check if all three text fields have at least one character
    boolean enableButton = !nameIN.getText().isEmpty() &&
        !srIN.getText().isEmpty() &&
        passIN.getPassword().length > 0;
```



```
        Sign.setEnabled(enableButton);
    }
});
jPanel1.add(srIN, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 230, 230, -1));

jLabel4.setForeground(new java.awt.Color(255, 255, 255));
jLabel4.setText("PASSWORD");
jPanel1.add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 270, 224,
-1));

nameIN.setBackground(new java.awt.Color(0, 0, 0));
nameIN.setForeground(new java.awt.Color(255, 255, 255));
nameIN.getDocument().addDocumentListener(new DocumentListener() {
    @Override
    public void insertUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
    public void removeUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
    public void changedUpdate(DocumentEvent e) {
        updateButtonState();
    }

    private void updateButtonState() {
        // Check if all three text fields have at least one character
        boolean enableButton = !nameIN.getText().isEmpty() &&
            !srIN.getText().isEmpty() &&
            passIN.getPassword().length > 0;
        Sign.setEnabled(enableButton);
    }
});
jPanel1.add(nameIN, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 180, 230,
-1));

Sign.setBackground(new java.awt.Color(0, 255, 204));
Sign.setText("Sign up");
Sign.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        SignActionPerformed(evt);
    }
});
jPanel1.add(Sign, new org.netbeans.lib.awtextra.AbsoluteConstraints(270, 340, 90, -1));
```



```
passIN.setBackground(new java.awt.Color(0, 0, 0));
passIN.setForeground(new java.awt.Color(255, 255, 255));
passIN.getDocument().addDocumentListener(new DocumentListener() {
    @Override
    public void insertUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
    public void removeUpdate(DocumentEvent e) {
        updateButtonState();
    }

    @Override
    public void changedUpdate(DocumentEvent e) {
        updateButtonState();
    }

    private void updateButtonState() {
        // Check if all three text fields have at least one character
        boolean enableButton = !nameIN.getText().isEmpty() &&
            !srlIN.getText().isEmpty() &&
            passIN.getPassword().length > 0;
        Sign.setEnabled(enableButton);
    }
});
jPanel1.add(passIN, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 290, 230,
-1));

jButton1.setBackground(new java.awt.Color(153, 255, 255));
jButton1.setText("BACK");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jPanel1.add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(270, 380, 90,
30));

jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/electrical/1aaa.gif"))); // NOI18N
jPanel1.add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, -10, 650,
500));

getContentPane().add(jPanel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0,
```



```
660, 480));
```

```
setSize(new java.awt.Dimension(664, 501));  
setLocationRelativeTo(null);  
} // </editor-fold>
```

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

```
try {  
    String selectSql = "SELECT * FROM accounts WHERE name = ?";  
    PreparedStatement selectStatement = conn.prepareStatement(selectSql);  
    selectStatement.setString(1, nameIN.getText());  
    ResultSet resultSet = selectStatement.executeQuery();  
  
    if (resultSet.next()) {  
        // Item already exists, perform the update  
        JOptionPane.showMessageDialog(null, "Item already entered");  
    } else {  
        String insertSql = "INSERT INTO accounts (name, pass, sr) VALUES (?, ?, ?)";  
        PreparedStatement preparedStatement = conn.prepareStatement(insertSql);  
        preparedStatement.setString(1, nameIN.getText());  
        preparedStatement.setString(2, new String(passIN.getPassword()));  
        preparedStatement.setString(3, srIN.getText());  
        preparedStatement.executeUpdate();  
    } catch (NumberFormatException ex) {  
        JOptionPane.showMessageDialog(null, "Please enter entries");  
    } catch (SQLException ex) {  
        Logger.getLogger(App.class.getName()).log(Level.SEVERE, null, ex);  
    }  
    App newForm = new App();  
    newForm.setVisible(true);
```

```
    // Dispose the existing form  
    dispose();  
    // TODO add your handling code here:  
}
```

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

```
    // Dispose the existing form  
    dispose(); // TODO add your handling  
}
```





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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton Sign;
```



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```
private javax.swing.JButton jButton1;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JTextField nameIN;  
private javax.swing.JPasswordField passIN;  
private javax.swing.JTextField srlIN;  
// End of variables declaration  
}
```