RABINO, MICO T.

BSIT-S-2A

MACHINE PROBLEM 2 (GROUP 2) SCREENSHOTS AND PDF

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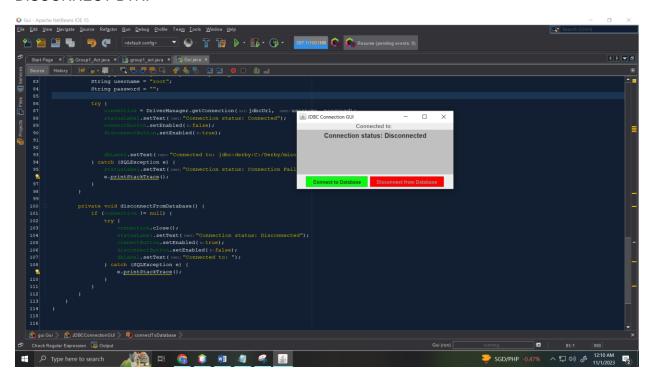
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CONNECT BTN:

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DISCONNECT BTN:



SOURCE CODE:

/*

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

*/

package gui;

import javax.swing.*;

import java.awt.*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

```
public class Gui {
  public static void main(String[] args) {
    SwingUtilities.invokeLater(() -> {
       JDBCConnectionGUI gui = new JDBCConnectionGUI();
       gui.setVisible(true);
    });
  }
  public static class JDBCConnectionGUI extends JFrame {
    private JLabel statusLabel;
    private JLabel dbLabel;
    private JButton connectButton;
    private JButton disconnectButton;
    private Connection connection;
    public JDBCConnectionGUI() {
       setTitle("JDBC Connection GUI");
       setSize(400, 200);
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setLayout(new BorderLayout());
       setBackground(Color.WHITE);
       JPanel statusPanel = new JPanel();
       statusPanel.setLayout(new FlowLayout(FlowLayout.CENTER));
       statusLabel = new JLabel("Connection status: Not Connected");
       statusLabel.setHorizontalAlignment(SwingConstants.CENTER);
       statusLabel.setFont(new Font("Arial", Font.BOLD, 16));
       statusPanel.add(statusLabel);
       statusPanel.setBackground(Color.LIGHT_GRAY);
```

```
dbLabel = new JLabel("Connected to: ");
dbLabel.setHorizontalAlignment(SwingConstants.CENTER);
dbLabel.setFont(new Font("Arial", Font.PLAIN, 14));
JPanel buttonPanel = new JPanel();
buttonPanel.setLayout(new FlowLayout(FlowLayout.CENTER));
connectButton = new JButton("Connect to Database");
disconnectButton = new JButton("Disconnect from Database");
disconnectButton.setEnabled(false);
connectButton.setBackground(Color.GREEN);
disconnectButton.setBackground(Color.RED);
connectButton.addActionListener(new ActionListener() {
  @Override
  public void actionPerformed(ActionEvent e) {
    connectToDatabase();
  }
});
disconnectButton.addActionListener(new ActionListener() {
  @Override
  public void actionPerformed(ActionEvent e) {
    disconnectFromDatabase();
  }
});
```

```
buttonPanel.add(connectButton);
  buttonPanel.add(disconnectButton);
  add(statusPanel, BorderLayout.CENTER);
  add(dbLabel, BorderLayout.NORTH);
  add(buttonPanel, BorderLayout.SOUTH);
}
private void connectToDatabase() {
  String jdbcUrl = "jdbc:derby:C:/Derby/mico_db";
  String username = "root";
  String password = "";
  try {
    connection = DriverManager.getConnection(jdbcUrl, username, password);
    statusLabel.setText("Connection status: Connected");
    connectButton.setEnabled(false);
    disconnectButton.setEnabled(true);
     java.sql.DatabaseMetaData metaData = connection.getMetaData();
    dbLabel.setText("Connected to: " + metaData.getURL());
  } catch (SQLException e) {
    statusLabel.setText("Connection status: Connection Failed");
    e.printStackTrace();
  }
}
private void disconnectFromDatabase() {
  if (connection != null) {
    try {
```

```
connection.close();
    statusLabel.setText("Connection status: Disconnected");
    connectButton.setEnabled(true);
    disconnectButton.setEnabled(false);
    dbLabel.setText("Connected to: ");
} catch (SQLException e) {
    e.printStackTrace();
}
}
}
```