INDIAN SCHOOL AL WADI AL KABIR

Handout - Project Development Using Java Database Connectivity (2017-18)

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| Class: XII | Informatics Practices | 07.05.2017 |
| Step 1 : Open My SQL. Create a Database Stockdb and create a table stock with the fields to store item code(int), item name(varchar), item type(varchar), item price(float) and available stock(int).Step 2 : Open Java Net beans, create a project and include a jframe to design the item data form with 4 text fields and 1 combo box to store the item details. Include 6 buttons for Add, Delete, Update, Search, Clear and Close operation. Also include a JOptionPane to the frame to display messages. Step 3 : Select File Menu – Choose Project Properties – Select Libraries Tab – Add Library – Select My SQL JDBC Driver – Click Add Library and Click OK.Step 4 : In the Source code area at the beginning include the following code…import java.sql.\*;Step 5 : Include the following statements in the coding of the class stock form. Statement stmt=null; ResultSet rs=null; String query="Select \* from stock";Step 6 : Enter the following code in the corresponding button to run the application.**Coding for Add Button**private void AddActionPerformed(java.awt.event.ActionEvent evt) {  int icode=Integer.parseInt(jTextField1.getText()); String iname=jTextField2.getText(); String itype=(String) jComboBox1.getSelectedItem(); float iprice=Float.parseFloat(jTextField3.getText()); int avs=Integer.parseInt(jTextField4.getText()); try { Class.forName("java.sql.Driver"); Connection con=DriverManager.getConnection("jdbc:mysql://localhost/stockdb","root","mysql"); Statement stmt=con.createStatement(); String query="insert into stock values (" +icode + "," + "'" +iname +"'" +"," +"'" +itype +"'" +"," +iprice+","+ avs+");"; stmt.executeUpdate(query); jOptionPane1.showMessageDialog(this,"Record is Added Successfully"); } catch(Exception e) { jOptionPane1.showMessageDialog(null,e.getMessage()); } } **Coding for Search Button**int sicode=Integer.parseInt(jTextField1.getText()); try { Class.forName("java.sql.Driver"); Connection con=DriverManager.getConnection("jdbc:mysql://localhost/stockdb","root","mysql"); Statement stmt=con.createStatement(); String query="Select \* from stock where itemcode = "+sicode+";"; ResultSet rs=stmt.executeQuery(query); if(rs.next()) { int icode=rs.getInt("itemcode"); String iname=rs.getString("itemname"); String itype=rs.getString("itemtype"); float iprice=rs.getFloat("itemprice"); int avs=rs.getInt("Available\_stock"); jTextField1.setText(""+icode); jTextField2.setText(""+iname); jComboBox1.setSelectedItem(itype); jTextField3.setText(""+iprice); jTextField4.setText(""+avs); con.close(); stmt.close(); rs.close(); } else jOptionPane1.showMessageDialog(null,"Record does not found in the Stock Table..."); } catch(Exception e) { jOptionPane1.showMessageDialog(this,e.getMessage()); } } **Coding for Delete Button**int dicode=Integer.parseInt(jTextField1.getText()); try { Class.forName("java.sql.Driver"); Connection con=DriverManager.getConnection("jdbc:mysql://localhost/stockdb","root","mysql"); Statement stmt=con.createStatement(); String query="Delete from stock where itemcode = " +dicode+";"; int No\_Rows=stmt.executeUpdate(query); if(No\_Rows==0) jOptionPane1.showMessageDialog(this,"Record does not exists..."); else jOptionPane1.showMessageDialog(this,"Record is deleted..."); } catch(Exception e) { jOptionPane1.showMessageDialog(this,e.getMessage()); } } **Coding for Update Button** float uiprice=Float.parseFloat(jTextField3.getText()); int uicode=Integer.parseInt(jTextField1.getText()); try { Class.forName("java.sql.Driver"); Connection con=DriverManager.getConnection("jdbc:mysql://localhost/stockdb","root","mysql"); Statement stmt; stmt=con.createStatement(); String query="Update stock set itemprice = "+uiprice+" where itemcode="+uicode+";"; jOptionPane1.showMessageDialog(this,"Record is Updated"); stmt.executeUpdate(query); con.close(); stmt.close(); } catch(Exception e) { jOptionPane1.showMessageDialog(this,e.getMessage()); } }  |
| **Coding for Clear Button:** jTextField1.setText(""); jTextField2.setText(""); jTextField1.setText(""); jTextField2.setText(""); jComboBox1.setSelectedItem("LED TV");**Coding for Quit Button:** System.exit(0); |