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); | | |