INDIAN SCHOOL AL WADI AL KABIR

Handout - Project Development Using Java Database Connectivity (2018-19)

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| Class: XII | Informatics Practices | 05.06.2018 |
| 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); | | |

**Project Guidelines:**

The students are asked to submit their project as per the following documentation format.

1. Covering Page
2. Certificate (Given by the School).
3. Acknowledgement
4. Synopsis
5. About Java Net Beans
6. About My SQL
7. System Requirement Specification
8. Source Code
9. Input / Output Screen
10. Bibliography

**Note:** Students have to submit the fair project report on or before 12.08.2018 to their respective Subject Teachers.