JSP – Adding the Student Details

Aim:

Programs in Java to create three-tier applications using JSP for adding student details.

Procedure:

StudentAdd.jsp

1. Establish a connection with a database, load the database specific driver by calling the forName() method of the Class class:
   Class.forName("com.mysql.jdbc.Driver")
2. Use the getConnection() method from the DriverManager class to establish a connection with a database.:
   <protocol>:<subprotocol>:<subname>
3. Use the PreparedStatement object to execute parameterized queries.
4. Create the PreparedStatement object using the prepareStatement() method of the Connection object.
   ps = connection.prepareStatement("insert into student values (?,?,?,?,?)") ;
5. Set the value of '?' parameter, by calling an appropriate setXXX() method, where XXX is the datatype of the parameter. For example:
   ps.setString(1, request.getParameter("rollno"));
   ps.setString(2, request.getParameter("sname"));
   ps.setString(3, request.getParameter("branch"));
   ps.setString(4, request.getParameter("sslc"));
   ps.setString(5, request.getParameter("hsc"));
   ps.executeUpdate();
6. Run the JSP and perform these steps to test this example:
   1. Start Tomcat (if it is not already running).
   2. Display the Web page in a browser.
   3. Enter an Roll No., Name in the text field.
   4. Select the branch.
   5. Enter 10th and 12th mark.
   6. Submit the Web page.
7. After following these steps, the browser will display a response that is dynamically generated by the JSP.

StudentViewAll.jsp

1. Establish a connection with a database, load the database specific driver by calling the forName() method of the Class class:
Class.forName("com.mysql.jdbc.Driver")

2. Use the getConnection() method from the DriverManager class to establish a connection with a database.:
<protocol>:<subprotocol>:<subname>

3. Use the Statement object to execute parameterized queries.
Statement st = connection.createStatement();

4. Create the executeQuery method of the Statement object and obtain the ResultSet.
ResultSet rs = st.executeQuery("select * from student");

5. Get the values of the result by calling an appropriate getXXX() method, where XXX is the datatype of the parameter and display in table format. For example:
<td><%=rs.getString("rollno")%></td>
<td><%=rs.getString("sname")%></td>
<td><%=rs.getString("branch")%></td>
<td><%=rs.getString("sslc")%></td>
<td><%=rs.getString("hsc")%></td>

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