Cookie Program

<!DOCTYPE html>

<html>

<head><meta charset="ISO-8859-1">

<title>Insert title here</title></head>

<body>

<form action="FirstServlet" method="post">

Name:<input type="text" name="userName"/><br/>

<input type="submit" value="go"/>

</form> </body></html>

public class FirstServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { try{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String n=request.getParameter("userName");

out.print("Welcome "+n);

Cookie ck=new Cookie("uname",n);

//creating cookie object

response.addCookie(ck);//adding cookie in the response

//creating submit button

out.print("<form action='SecondServlet'>");

out.print("<input type='submit' value='go'>");

out.print("</form>");

out.close();

}catch(Exception e){System.out.println(e);}

}}

public class SecondServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try{ response.setContentType("text/html");

PrintWriter out = response.getWriter();

Cookie ck[]=request.getCookies();

out.print("Hello "+ck[0].getValue());

out.close();

}catch(Exception e){System.out.println(e);}

}}

Online Exam Application

<!DOCTYPE html>

<html><head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title></head>

<body>

<h1>Online Examination</h1>

<form name=*"frm"* action=*"NewServlet"* method=*"get"*>

<div align=*"left"*><br></div>

<b>Seat Number:</b> <input type=*"text"* name=*"Seat\_no"*>

<div align=*"Right"*>

<b>Name:</b> <input type=*"text"* name=*"Name"* size=*"50"*><br>

</div><br><br>

<b>1. Every host implements transport layer.</b><br/>

<input type=*"radio"* name=*"group1"* value=*"True"*>True

<input type=*"radio"* name=*"group1"* value=*"False"*>False<br>

<b>2. It is a network layer's responsibility to forward packets reliably from source to destination</b><br/>

<input type=*"radio"* name=*"group2"* value=*"True"*>True

<input type=*"radio"* name=*"group2"* value=*"False"*>False<br>

<b>3. Packet switching is more useful in bursty traffic</b><br/>

<input type=*"radio"* name=*"group3"* value=*"True"*>True

<input type=*"radio"* name=*"group3"* value=*"False"*>False<br>

<b>4. A phone network uses packet switching</b><br/>

<input type=*"radio"* name=*"group4"* value=*"True"*>True

<input type=*"radio"* name=*"group4"* value=*"False"*>False<br>

<b>5. HTML is a Protocol for describing web contents</b><br/>

<input type=*"radio"* name=*"group5"* value=*"True"*>True

<input type=*"radio"* name=*"group5"* value=*"False"*>False<br>

<br><br><br>

<input type=*"submit"* value=*"Submit"*><br><br>

</form></body></body></html>

**public** **class** NewServlet **extends** HttpServlet {

String message,Seat\_no,Name,ans1,ans2,ans3,ans4,ans5;

**int** Total=0;

Connection connect;

Statement stmt=**null**;

ResultSet rs=**null**;

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

**try**

{

String url="jdbc:mysql://localhost:3306/paul";

Class.*forName*("com.mysql.jdbc.Driver");

connect=DriverManager.*getConnection*(url,"root","root");

message="Thank you for participating in online Exam";

}

**catch**(ClassNotFoundException cnfex) { cnfex.printStackTrace(); }

**catch**(SQLException sqlex) { sqlex.printStackTrace(); }

**catch**(Exception excp) { excp.printStackTrace(); }

Seat\_no=request.getParameter("Seat\_no");

Name=request.getParameter("Name");

ans1=request.getParameter("group1");

ans2=request.getParameter("group2");

ans3=request.getParameter("group3");

ans4=request.getParameter("group4");

ans5=request.getParameter("group5");

**if**(ans1.equals("True")) Total+=2;

**if**(ans2.equals("False")) Total+=2;

**if**(ans3.equals("True")) Total+=2;

**if**(ans4.equals("False")) Total+=2;

**if**(ans5.equals("False")) Total+=2;

**try** { Statement stmt=connect.createStatement();

String query="INSERT INTO student("+"Seat\_no,Name,Total"+") VALUES('"+Seat\_no+"','"+Name+"','"+Total+"')";

**int** result=stmt.executeUpdate(query);

stmt.close(); }

**catch**(SQLException ex) { ex.printStackTrace(); }

out.println("<html>");out.println("<head>"); out.println("</head>");

out.println("<body>"); out.println("<center>");

out.println("<h1>"+message+"</h1>\n");

out.println("<h3>Yours results stored in our database</h3>");

out.print("<br><br>");

out.println("<b>"+"Participants and their Marks"+"</b>");

out.println("<table border=5>");

**try**

{

Statement stmt=connect.createStatement();

String query="SELECT \* FROM student";

rs=stmt.executeQuery(query);

out.println("<th>"+"Seat\_no"+"</th>");

out.println("<th>"+"Name"+"</th>");

out.println("<th>"+"Marks"+"</th>");

**while**(rs.next())

{

out.println("<tr>");

out.print("<td>"+rs.getInt(1)+"</td>");

out.print("<td>"+rs.getString(2)+"</td>");

out.print("<td>"+rs.getString(3)+"</td>");

out.println("</tr>");

}

out.println("</table>");

}

**catch**(SQLException ex)

{

ex.printStackTrace();

}

**finally**{ **try** { **if**(rs!=**null**)

rs.close();

**if**(stmt!=**null**)

stmt.close();

**if**(connect!=**null**)

connect.close();

} **catch**(SQLException e) { e.printStackTrace(); }

}

out.println("</center>");

out.println("</body></html>");

Total=0;

}

}

CRUD Application

Index.html

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<h1>Add New Employee</h1>

<form action="SaveServlet" method="post">

<table>

<tr><td>Name:</td><td><input type="text" name="name"/></td></tr>

<tr><td>Password:</td><td><input type="password" name="password"/></td></tr>

<tr><td>Email:</td><td><input type="email" name="email"/></td></tr>

<tr><td>Country:</td><td>

<select name="country" style="width:150px">

<option>India</option>

<option>USA</option>

<option>UK</option>

<option>Other</option>

</select>

</td></tr>

<tr><td colspan="2"><input type="submit" value="Save Employee"/></td></tr>

</table>

</form>

<br/>

<a href="ViewServlet">view employees</a>

</body>

</html>

Emp.java

**public** **class** Emp {

**private** **int** id;

**private** String name,password,email,country;

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

**public** String getCountry() {

**return** country;

}

**public** **void** setCountry(String country) {

**this**.country = country;

}  }

EmpDao.java

**import** java.sql.\*;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** EmpDao {

**public** **static** Connection getConnection(){

Connection con=**null**;

**try**{

Class.*forName*("com.mysql.jdbc.Driver");

con=DriverManager.*getConnection*("jdbc:mysql://localhost:3306/paul","root","root");

}**catch**(Exception e){System.***out***.println(e);}

**return** con;

}

**public** **static** **int** save(Emp e){

**int** status=0;

**try**{

Connection con=EmpDao.*getConnection*();

PreparedStatement ps=con.prepareStatement(

"insert into user905(name,password,email,country) values (?,?,?,?)");

ps.setString(1,e.getName());

ps.setString(2,e.getPassword());

ps.setString(3,e.getEmail());

ps.setString(4,e.getCountry());

status=ps.executeUpdate();

con.close();

}**catch**(Exception ex){ex.printStackTrace();}

**return** status;

}

**public** **static** **int** update(Emp e){

**int** status=0;

**try**{

Connection con=EmpDao.*getConnection*();

PreparedStatement ps=con.prepareStatement(

"update user905 set name=?,password=?,email=?,country=? where id=?");

ps.setString(1,e.getName());

ps.setString(2,e.getPassword());

ps.setString(3,e.getEmail());

ps.setString(4,e.getCountry());

ps.setInt(5,e.getId());

status=ps.executeUpdate();

con.close();

}**catch**(Exception ex){ex.printStackTrace();}

**return** status;

}

**public** **static** **int** delete(**int** id){

**int** status=0;

**try**{

Connection con=EmpDao.*getConnection*();

PreparedStatement ps=con.prepareStatement("delete from user905 where id=?");

ps.setInt(1,id);

status=ps.executeUpdate();

con.close();

}**catch**(Exception e){e.printStackTrace();}

**return** status;

}

**public** **static** Emp getEmployeeById(**int** id){

Emp e=**new** Emp();

**try**{ Connection con=EmpDao.*getConnection*();

PreparedStatement ps=con.prepareStatement("select \* from user905 where id=?");

ps.setInt(1,id);

ResultSet rs=ps.executeQuery();

**if**(rs.next()){

e.setId(rs.getInt(1));

e.setName(rs.getString(2));

e.setPassword(rs.getString(3));

e.setEmail(rs.getString(4));

e.setCountry(rs.getString(5));

} con.close(); }**catch**(Exception ex){ex.printStackTrace();} **return** e; }

**public** **static** List<Emp> getAllEmployees()

{ List<Emp> list=**new** ArrayList<Emp>();

**try**{ Connection con=EmpDao.*getConnection*();

PreparedStatement ps=con.prepareStatement("select \* from user905");

ResultSet rs=ps.executeQuery();

**while**(rs.next()){

Emp e=**new** Emp();

e.setId(rs.getInt(1));

e.setName(rs.getString(2));

e.setPassword(rs.getString(3));

e.setEmail(rs.getString(4));

e.setCountry(rs.getString(5));

list.add(e);

} con.close();

}**catch**(Exception e){e.printStackTrace();}

**return** list;

} }

SaveServlet.java

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/SaveServlet")

**public** **class** SaveServlet **extends** HttpServlet {

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

        response.setContentType("text/html");

        PrintWriter out=response.getWriter();

        String name=request.getParameter("name");

        String password=request.getParameter("password");

        String email=request.getParameter("email");

        String country=request.getParameter("country");

        Emp e=**new** Emp();

        e.setName(name);

        e.setPassword(password);

        e.setEmail(email);

        e.setCountry(country);

**int** status=EmpDao.save(e);

**if**(status>0){

            out.print("<p>Record saved successfully!</p>");

            request.getRequestDispatcher("index.html").include(request, response);

        }**else**{

            out.println("Sorry! unable to save record");

        }        out.close();      }

}

EditServlet.java

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/EditServlet")

**public** **class** EditServlet **extends** HttpServlet {

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

        response.setContentType("text/html");          PrintWriter out=response.getWriter();

        out.println("<h1>Update Employee</h1>");

        String sid=request.getParameter("id");

**int** id=Integer.parseInt(sid);

        Emp e=EmpDao.getEmployeeById(id);

        out.print("<form action='EditServlet2' method='post'>");

        out.print("<table>");

out.print("<tr><td></td><td><input type='hidden' name='id' value='"+e.getId()+"'/></td></tr>");

out.print("<tr><td>Name:</td><td><input type='text' name='name' value='"+e.getName()+"'/></td></tr>");

 out.print("<tr><td>Password:</td><td><input type='password' name='password' value='"+e.getPassword()+"'/>    </td></tr>");

out.print("<tr><td>Email:</td><td><input type='email' name='email' value='"+e.getEmail()+"'/></td></tr>");

        out.print("<tr><td>Country:</td><td>");

        out.print("<select name='country' style='width:150px'>");

        out.print("<option>India</option>");

        out.print("<option>USA</option>");

        out.print("<option>UK</option>");

        out.print("<option>Other</option>");

        out.print("</select>");          out.print("</td></tr>");

out.print("<tr><td colspan='2'><input type='submit' value='Edit & Save '/></td></tr>");

        out.print("</table>");          out.print("</form>");

                  out.close();      }  }

EditServlet2.java

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/EditServlet2")

**public** **class** EditServlet2 **extends** HttpServlet {

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

        response.setContentType("text/html");

        PrintWriter out=response.getWriter();

        String sid=request.getParameter("id");

**int** id=Integer.parseInt(sid);

        String name=request.getParameter("name");

        String password=request.getParameter("password");

        String email=request.getParameter("email");

        String country=request.getParameter("country");

        Emp e=**new** Emp();

        e.setId(id);

        e.setName(name);

        e.setPassword(password);

        e.setEmail(email);

        e.setCountry(country);

**int** status=EmpDao.update(e);

**if**(status>0){

            response.sendRedirect("ViewServlet");

        }**else**{

            out.println("Sorry! unable to update record");

        }

        out.close();

    }

}

*File: DeleteServlet.java*

**import** java.io.IOException;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

@WebServlet("/DeleteServlet")

**public** **class** DeleteServlet **extends** HttpServlet {

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

        String sid=request.getParameter("id");

**int** id=Integer.parseInt(sid);

        EmpDao.delete(id);

        response.sendRedirect("ViewServlet");

    }  }

*File: ViewServlet.java*

**import** java.io.\*;

**import** java.util.List;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

@WebServlet("/ViewServlet")

**public** **class** ViewServlet **extends** HttpServlet {

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

        response.setContentType("text/html");

        PrintWriter out=response.getWriter();

        out.println("<a href='index.html'>Add New Employee</a>");

        out.println("<h1>Employees List</h1>");

        List<Emp> list=EmpDao.getAllEmployees();

        out.print("<table border='1' width='100%'");

out.print("<tr><th>Id</th><th>Name</th><th>Password</th><th>Email</th><th>Country</th>  <th>Edit</th><th>Delete</th></tr>");

**for**(Emp e:list){

 out.print("<tr><td>"+e.getId()+"</td><td>"+e.getName()+"</td><td>"+e.getPassword()+"</td>  <td>"+e.getEmail()+"</td><td>"+e.getCountry()+"</td><td><a href='EditServlet?id="+e.getId()+"'>edit</a></td><td><a href='DeleteServlet?id="+e.getId()+"'>delete</a></td></tr>");          }

        out.print("</table>");         out.close();      }  }