Expt. No: 06
Date: 03/03/20

Database Connectivity using servlet

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Aim:

To establish connection to the database & to store the form details using Java Servlet.

Procedure:

Step 1: Open any one of the text editor.

Step 2: Create a HTML file named as index.html, a XML file named as WEB.xml and a java file named as db.java.

Step 3: Include all necessary tags includes html, body & head.

Step 4: Create two classes to evaluate the input fields & to store the data in database.

Step 5: Run the java file to generate class file.

Step 6: Run the Apache Tomcat server.

Step 7: Run the HTML file & Validate the input fields & Store it in database.

Design code:

index.html

```
<!DOCTYPE html>
<html>
```

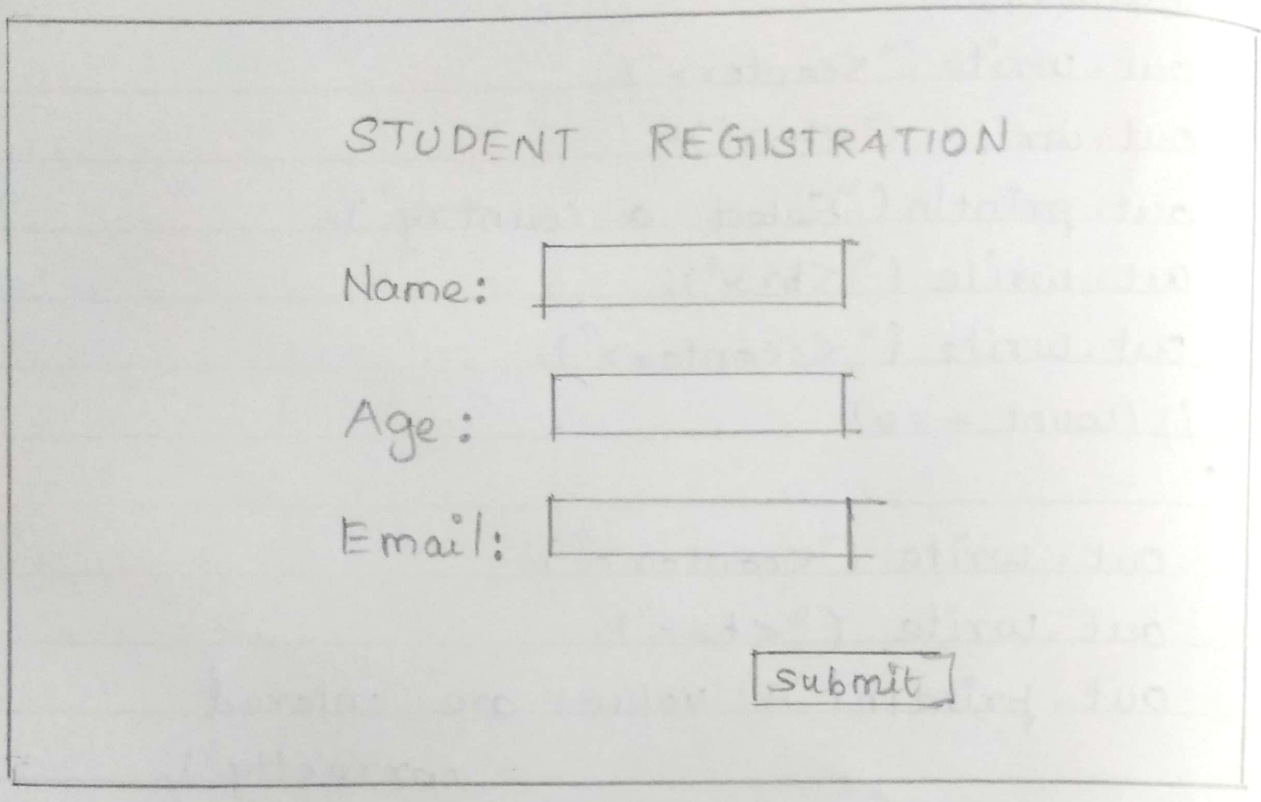
```
<head> <title> DB Connection </title> </head>
<body>
 <form action = "db" method = "post">
     <table>
         <tr>
            <td> Name </td>
            <td> <input type="text" name="name">
                                        </td>
         </tr>
         <tr>
            <td> RegNo </td>
            <td> <input type="text" name="regno">
                                        </td>
         </tr>
         <tr>
            <td> <input type="submit"> </td>
            <td> <button type="reset"> cancel
                                    </button> </td>
         </tr>
     </table>
 </form>
</body>
</html>
```

db.java

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
import java.sql.*;
```

```
public class DB extends HttpServlet
{
  public void doPost(HttpServletRequest
req, HttpServletResponse res) throws
    ServletException, IOException
{
   res.setContentType("text/html");
   PrintWriter out=res.getWriter();
String dbURL ="jdbc:mysql://localhost:3306/";
String dbName="student";
String dbUsername="root";
string dbPassword=" ";
String uname= req.getParameter("name");
String uregno= req.getParameter("regno");
try{
   Class.forname("com.mysql.jdbc.Driver");
Connection con=Drivermanager.getConnection
      (dbURL+dbName+dbUsername,
                    dbPassword);
PreparedStatement st=con.prepareStatement
      ("insert into details values(?,?)");
st.setString(1,uname);
st.setString(2,uregno);
int i=st.executeUpdate();
out.println("<p>"+i+"records inserted</p>");
Statement stmt=con.createStatement();
String sql;
Sql="SELECT * FROM details";
ResultSet rs=stmt.executeQuery(sql);
```

Output:



Added Successfully!

Name	Age	Email
Ram	18	xyz@gmail.com
Rahul	23	mnp@gmail.com

```
out.write ("<table>");
out.write ("<tr>");
out.write ("<th> Name </th>");
out. write ("<th> RegNo </th>");
out. write ("</tr>");
while (rs.next())
{
    String name = rs.getString ("name");
    String regno = rs.getString ("regno");
    out.write ("<tr>");
}
out.write ("</table>");
}
catch (SQLException se){
    out.println (se + "\n");
}
catch ( Exception e){
    out.println (e);
}
}
```

	Mark	Sign
Preparation		
Observation		
Result		
Viva		
Record		

Result : Thus the form input data is successfully stored in the databases & also validated successfully.