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What is MVC Architecture | | Login & Registration using MVC Design Pattern in Servlet & JSP

Register.java

```
package in.sp.controllers;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.PreparedStatement;
import in.sp.dbcon.DBConnection;
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
@WebServlet("/regfrom")
public class Register extends HttpServlet
{
       protected void doPost(HttpServletRequest req,HttpServletResponse res)throws
ServletException,IOException
       {
              PrintWriter out=res.getWriter();
              res.setContentType("text/html");
              String myname=req.getParameter("name1");
              String myemail=req.getParameter("email1");
              String mypass=req.getParameter("pass1");
              String mycity=req.getParameter("city1");
               try
               {
                      Connection con=DBConnection.getConnection();
                      String <u>insert_sql_query</u>="insert into register values(?,?,?,?)";
                      PreparedStatement ps=con.prepareStatement("insert_sql_query");
                      ps.setString(1,myname);
                      ps.setString(2,myemail);
                      ps.setString(3,mypass);
                      ps.setString(4,mycity);
```

```
int count= ps.executeUpdate();
                      if(count>0)
                             out.println("<h3 style='color:green'>Registered
Successfully..!!</h3>");
                              RequestDispatcher
rd=req.getRequestDispatcher("/login.html");
                             rd.include(req,res);
                      }
                      else
                   out.println("<h3 style='color:red'>User not registered dut to some
error..!!</h3>");
                              RequestDispatcher
rd=req.getRequestDispatcher("/register.html");
                             rd.include(req,res);
                      }
               }
               catch(Exception e)
                      e.printStackTrace();
       }
}
Login.java
package in.sp.controllers;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import in.sp.model.User;
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
```



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```
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
@WebServlet("/loginFrom")
public class Login extends HttpServlet
{
       protected void doPost(HttpServletRequest req,HttpServletResponse res)throws
ServletException,IOException
       {
              PrintWriter out=res.getWriter();
              res.setContentType("text/html");
              String myemail=req.getParameter("email1");
              String mypass=req.getParameter("pass1");
              try
                     Connection con=DbConnection.getConnection();
                     String select_sql_Query="select *from register where email=? and
password=?";
                     PreparedStatement ps=con.prepareStatement(select_sql_Query);
                      ps.setString(1,myemail);
                     ps.setString(2,mypass);
                     ResultSet rs=ps.executeQuery();
                     if(rs.next())
                             User user=new User();
                             user.setName(rs.getString("name"));
                             user.setEmail(rs.getString("email"));
                             user.setCity(rs.getString("city"));
                             HttpSession session=req.getSession();
                             session.setAttribute("session_user",user);
                             RequestDispatcher
rd=req.getRequestDispatcher("/profile.jsp");
                             rd.forward(req,res);
                     }
```

```
else
                             out.println("<h3 style='color:red'>Emai ID and Password didnt
matched</h3>");
                             RequestDispatcher
rd=req.getRequestDispatcher("/login.html");
                             rd.include(req,res);
                     }
              }
              catch(Exception e)
                     e.printStackTrace();
       }
}
DBConnection.java
package in.sp.dbcon;
import java.sql.Connection;
import java.sql.DriverManager;
public class DBConnection
       public static Connection getConnection()
              Connection con=null;
              try
              {
                     Class.forName("com.mysql.cj.jdbc.Driver");
       con=DriverManager.getConnection("jdbc:mysql://localhost:3306/yt_demo","root","r
oot");
              }
              catch(Exception e)
                     e.printStackTrace();
              return null;
       }
```

```
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      }
      User.java
      package in.sp.model;
      public class User
             private String name;
             private String email;
             private String city;
             public String getName() {
                     return name;
             }
             public void setName(String name) {
                     this.name = name;
             }
             public String getEmail() {
                     return email;
             public void setEmail(String email) {
                     this.email = email;
             public String getCity() {
                     return city;
             public void setCity(String city) {
                     this.city = city;
             }
      }
      Logout.java
      package in.sp.controllers;
      import java.io.IOException;
      import jakarta.servlet.RequestDispatcher;
      import jakarta.servlet.ServletException;
      import jakarta.servlet.annotation.WebServlet;
```

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

```
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```

```
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
@WebServlet("/logout")
public class Logout extends HttpServlet
{
       protected void doGet(HttpServletRequest req,HttpServletResponse res)throws
ServletException,IOException
       {
              HttpSession session=req.getSession();
              session.invalidate();
              RequestDispatcher rd=req.getRequestDispatcher("/login.html");
              rd.forward(req,res);
       }
}
Index.html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
       <h3>Welcome to Karan Academy</h3>
       <a href="register.html">Register Here</a><br><br>
       <a href="login.html">Login Here</a><br><br>
</body>
</html>
Register.html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
       <h3>Register Here</h3>
       <form action="regfrom" method="post">
                     Name:<input type="text" name="name1"><br><br>>
```

```
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```

```
Email ID:<input type="text" name="email1"><br><br>>
                    Password:<input type="password" name="pass1"><br><br>
                    City:<input type="text" name="city1"><br><br>
                    <input type="submit" value="Register">
      </form>
</body>
</html>
Login.html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
      <h3>Login Here</h3>
      <form action="loginFrom" method="post">
                    Email ID:<input type="text" name="email1"><br><br>>
                    Password:<input type="password" name="pass1"><br><br>
                    <input type="submit" value="login">
      </form>
</body>
</html>
Profile.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
  pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
      <%
             User user=(User)session.getAttribute("session_user");
      %>
      <h2>Welcome</h2>
```

```
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           <h3>Name :<%=user.getName() %></h3>
           <h3>Email :<%=user.getEmail() %></h3>
           <h3>City :<%=user.getCity() %></h3>
           <a href="logout">Logout</a>
     </body>
     </html>
```