Experiment No: 5

Aim: JSP, Servlet & MySQL (Backend)

Objective: understand Basic Concept of html, css
understand basic functionalities of JSP
Having knowledge of SQL query of create DB

Problem statement:
1] Design & build student login page using JSP, Servlet, MySQL.
2] Design & Build employee login page using JSP, Servlet & MySQL.

Software: Any Operating System, JDK, Editors - NetBeans/Eclipse, Web browser, Tomcat 7

Theory: Java Server pages -
- It is a server side programming technology ie. used to create dynamic web-based application
- It is a technology helps s/w developers to create dynamic web pages based on HTML, XML & other document types
- A JSP element is type of java servlet i.e. designed accomplished role of user interface for a java web appln
- Using JSP, you can collect i/p from users through webpage forms current records from database

why we need JSP :- JSP is used for design dynamic web page & servlet is used to code the logic i.e. present in MVC architecture servlet is controller & JSP preview.

Syntax of JSP:

```
declare variables <% text %>
// Hello.jsp
<html> <head>
<title> Jsp title </title> </head>
<body> <%
out.println(" welcome to JSP class");
%>
</body>
</html>
```

O/p → welcome to JSP class

Technology:
1. JSP & servlet
2. IDE - Net Beans 7.0
3. Database - Mysql

Test Cases : Manual testing is used validate fields like username, password, Mob no & email id's of user entered by user with database.

conclusion: Hence, we have performed dynamic web application using JSP, servlet & Mysql.

```
// index.jsp
<%--

Document : Login

Created on : Dec 31, 2017, 2:07:34 PM

Author : Admin --

%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>
```

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Web Technology Lab Manual

```
<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-
8"> <title> Login </title>

</head>

<body>

<table>

<tr>

<td width="300"></td>

<td> <font color="#339900" size="3.5">User Login</font>

<table>

<tr>

<td>

<form id="user1" method="post" action="User.jsp" name="s" onSubmit="return
valid()">

<table border="2.0">
```

```html
<tr>
<td>
User Id</td>
<td><input type="text" name="user1"></td>
</tr>
<tr>
<td>
Password</td>
<td><input type="password" name="pass"></td>
</tr>
<tr>
<td>
<center><input type="submit" name="user" value="Login"></center>
</td>
</tr></table>
<center><table>
<tr>
<td>
<a href="SignUp.jsp"><font color="#000000" size="2"><b>New
User?</b></font></a></td></tr></table>
</td>
</tr></table></center>
</td>
</tr>
</table>
</form>
</body>
</html>
```

```jsp
//SignUp.jsp
<%@ page import="java.sql.*"%>
<%@ page import =
"java.util.Date,java.text.SimpleDateFormat,java.text.ParseException"%> <%--
Document : SignUp
Created on : Dec 30, 2017, 11:52:03 PM
Author : Admin
--%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"> <title>JSP Page</title>
</head>
<body bgcolor="Skyblue">
<%
java.util.Date now = new java.util.Date();
String DATE_FORMAT1 = "dd/MM/yyyy";
SimpleDateFormat sdf1 = new SimpleDateFormat(DATE_FORMAT1);
String strDateNew1 = sdf1.format(now);
%>
<table border="black" bgcolor=" black" align ="center" >
<tr>
<td> <strong><em><font color="#990000" size="+1" face="Times New Roman"
style="text-decoration:underline">User Registration</font></em></strong>
</td>
</tr>
```

```html
</table>
<table border="black" align ="center">
<tr>
<td><form name="s" action="LoginServelt.jsp" method="get" onSubmit="return valid()">
<table align="center" cellpadding="6" cellspacing="6" width="400" height="300">
<td>
<tr>
<td><font face="Times New Roman" size="+1"><strong>Name</strong></font></td>
<td>     <input type="text" name="unn" class="b"></td>
</tr>
<tr>
<td><font face="Times New Roman" size="+1"><strong>User ID</strong></font></td>
<td>     <input type="text" name="uidd" id="name"></td>
</tr>
<tr>
<td><font face="Times New Roman"
size="+1"><strong>Password</strong></font></td>
<td>     <input type="password" name="passs" class="b"></td>
</tr>
<tr>
<td><font face="Times New Roman" size="+1"><strong>Mobile</strong></font></td>
<td>     <input type="text" name="mobb" class="b"></td>
</tr>
<tr>
<td><font face="Times New Roman" size="+1"><strong>Email
ID</strong></font></td>
<td>     <input type="text" name="eidd" class="b"></td>
```

```html
</tr>
<tr>
<td><font face="Times New Roman" size="+1"><strong>Date</strong></font></td>
<td>     <input type="text" name="date" class="b"
value="<%=strDateNew1%>"></td>
</tr>
<tr>
<td></td>
<td>     <input type="submit" name="s" value="submit"
class="b1" >
    <input type="reset" name="r" value="clear"
class="b1"></td> </tr></td>
<td></td>
</table>
</form></td>
</tr></table>
<center> <table><tr><td> <a href="index.jsp"><font color="#000000" size="2"><b>Login
Here</b></font></a>
</td>
</tr></table></center>
</body>
</html>
//LoginSuccess.jsp
<%--
Document : LoginSuccess
Author : Admin
--%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
```

```html
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"> <title>JSP Page</title>
</head>
<body>
<h1> User Logged In Successfully!...</h1>
</body>
</html>
//LoginFailure.jsp
<%--
Document : LoginFailure
Created on : Dec 31, 2017, 2:42:21 PM
Author : Admin
--%>
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"> <title>JSP Page</title>
</head>
<body>
<h1> <font color="Red"> Please Provide Correct Username or Password!..Retry Again!..
</font> </h1>
<table>
<tr>
```

```html
<td>
<form id="user1" method="post" action="User.jsp" name="s" onSubmit="return
valid()">
<table>
<tr>
<td>
User Id</td>
<td><input type="text" name="user1"></td>
</tr>
<tr>
<td>
Password</td>
<td><input type="password" name="pass"></td>
</tr>
<tr>
<td>
</td>
<td>
<input type="submit" name="user"
value="Login"></td> </tr></table>
</form>
</td>
</tr></table>
</body>
</html>
//LoginServlet.jsp
<%@page import="java.sql.*"%>
<%@ page import="java.io.*"%>
```

```jsp
<%@ page import = "java.util.Date,java.text.SimpleDateFormat,java.text.ParseException"%>
<%
String a = request.getParameter("uidd");
String x = request.getParameter("unn");
String b = request.getParameter("passs");
String c = request.getParameter("mobb");
String d = request.getParameter("eidd");
session.setAttribute("d",d);
//String f=request.getParameter("date");
//out.print(strDateNew1);
//out.print(x);
//out.print(b);
//out.print(c);
//out.print(d);
//out.print(f);
java.util.Date now = new java.util.Date();
String DATE_FORMAT = "yyyy-MM-dd";
SimpleDateFormat sdf = new SimpleDateFormat(DATE_FORMAT);
String strDateNew = sdf.format(now) ;
//response.sendRedirect("signup.jsp?message=success"); //String
userid=null;
//String m="avl";
try
{
Class.forName("com.mysql.jdbc.Driver");
Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/loginpage","root","root");
PreparedStatement ps=con.prepareStatement("insert into
```

```jsp
student(sname,suserid,spass,mobile,email,date) values(?,?,?,?,?,'"+strDateNew+"')");

//ResultSet rs=ps.executeQuery();

ps.setString(1,x);

ps.setString(2,a);

ps.setString(3,b);

ps.setString(4,c);

ps.setString(5,d);

ps.executeUpdate();

response.sendRedirect("SignUp.jsp?success");

} catch(Exception e1)

{

out.println(e1.getMessage());

response.sendRedirect("SignUp.jsp?Failure");%>

}

%>

//User.jsp

<%@ page import="java.sql.*;"%>

<%

String a=request.getParameter("user1");

String b=request.getParameter("pass");

String id=null,name=null,userid=null,email=null;

try{

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

Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/loginpage","root","root");

//Connection con = databasecon.getconnection();

PreparedStatement ps=con.prepareStatement("select sid,sname,suserid,email from student where

suserid='"+a+"' && spass='"+b+"'");
```

```
ResultSet rs=ps.executeQuery();

if(rs.next())

{i

d=rs.getString("sid");

name=rs.getString("sname");

userid=rs.getString("suserid");

email=rs.getString("email");

session.setAttribute("sid",id);

session.setAttribute("sname",name);

session.setAttribute("suserid",userid);

session.setAttribute("email",email);

//response.sendRedirect("user5.jsp");

response.sendRedirect("LoginSuccess.jsp?Success");

//out.print(name2);

} else

{ response.sendRedirect("LoginFailure.jsp?Failure");

}}

catch(Exception e2){

out.println(e2.getMessage());

}

%>
```