



ASSIGNMENT
ON

JSP JDBC MySQL

COURSE NAME: ADVANCE ENTERPRISE JAVA (LAB)

COURSE CODE: SE 410

SUBMITTED TO:

MD. SAFAET HOSSAIN

ASSOCIATE PROFESSOR AND HEAD

DEPARTMENT OF CSE

SUBMITTED BY:

ZULKAR NINE

163432601

SAJEDUL ISLAM

163432559

43RD BATCH

DEPARTMENT OF CSE

SUBMITTED DATE: 30-11-2020

Java Server Pages (JSP) is a server-side programming technology that enables the creation of dynamic, platform-independent method for building Web-based applications. JSP have access to the entire family of Java APIs, including the JDBC API to access enterprise databases.

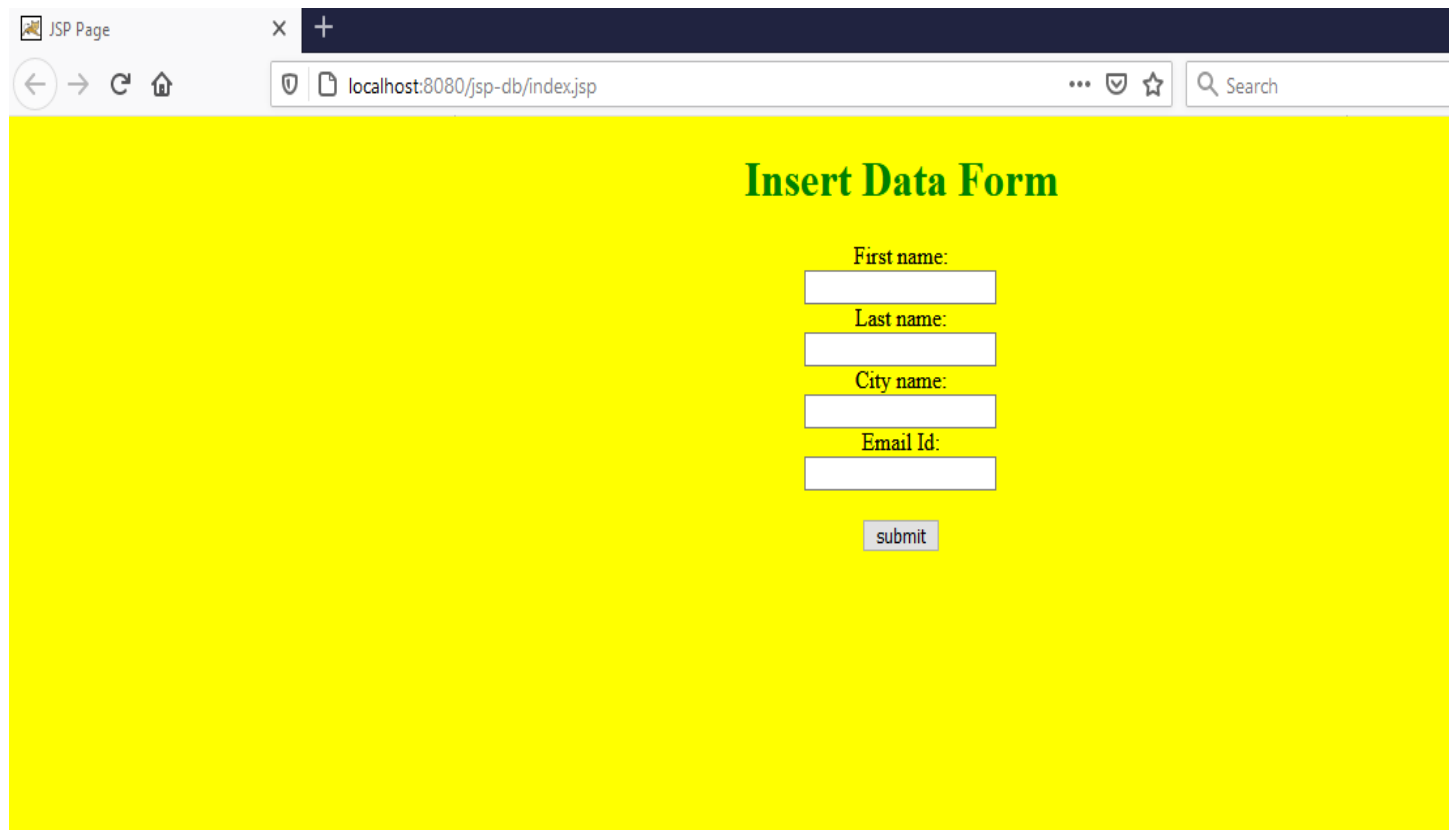
Insert data

index.jsp

```
<% @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 style="background-color: yellow">
    <div style="text-align: center;">
      <h1 style="color: green">Insert Data Form</h1>
      <form method="post" action="process.jsp" >
        First name:<br>
        <input type="text" name="first_name">
        <br>
        Last name:<br>
        <input type="text" name="last_name">
        <br>
        City name:<br>
        <input type="text" name="city_name">
        <br>
        Email Id:<br>
        <input type="email" name="email">
        <br><br>
```

```
        <input type="submit" value="submit">
    </form>
</div>
</body>
</html>
```

output:



The screenshot shows a web browser window with a single tab titled 'JSP Page'. The address bar displays 'localhost:8080/jsp-db/index.jsp'. The page content is on a solid yellow background and features a green title 'Insert Data Form'. Below the title, there are four text input fields stacked vertically, each preceded by a label: 'First name:', 'Last name:', 'City name:', and 'Email Id:'. At the bottom of the form is a light blue button with the text 'submit'.

process.jsp

```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<% @page import ="java.sql.*" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
<title>JSP Page</title>

</head>

<body>

<%
String first_name=request.getParameter("first_name");
String last_name=request.getParameter("last_name");
String city_name=request.getParameter("city_name");
String email=request.getParameter("email");

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

Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/jspdb",
"root", "");

Statement st=conn.createStatement();

int i=st.executeUpdate("insert into
users(first_name,last_name,city_name,email)values('"+first_name+"','"+last_name+"','"+
city_name+"','"+email+"')");

out.println("Data is successfully inserted!");

//out.print("<a href='retrieve.jsp'>show details</a>");

}

catch(Exception e)
{
System.out.print(e);
e.printStackTrace();
}

%>

<br>

<a href="index.jsp">Insert More</a>

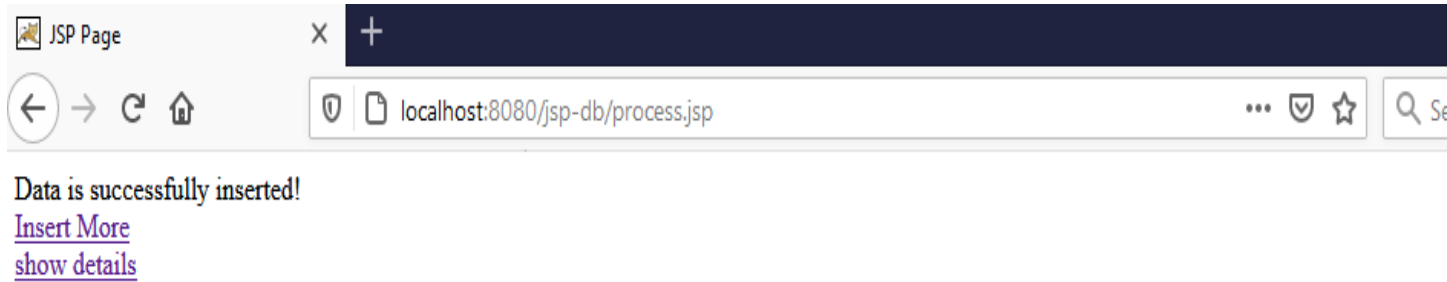
<br>

<a href="retrieve.jsp">show details</a>

</body>
```

</html>

output:



Read data

retrieve.jsp

```
<% @page import="java.sql.DriverManager"%>
<% @page import="java.sql.ResultSet"%>
<% @page import="java.sql.Statement"%>
<% @page import="java.sql.Connection"%>
<%
//String id = request.getParameter("userid");
String driver = "com.mysql.jdbc.Driver";
String connectionUrl = "jdbc:mysql://localhost:3306/";
String database = "jspdb";
String userid = "root";
String password = "";
try {
```

```

Class.forName(driver);
} catch (ClassNotFoundException e) {
e.printStackTrace();
}
Connection connection = null;
Statement statement = null;
ResultSet resultSet = null;
%>
<!DOCTYPE html>
<html>
<body>

<h1>Retrieve data from database in jsp</h1>
<table border="1">
<tr>
<td>first name</td>
<td>last name</td>
<td>City name</td>
<td>Email</td>
<td>Action</td>

</tr>
<%
try{
connection = DriverManager.getConnection(connectionUrl+database, userid, password);
statement=connection.createStatement();
String sql ="select * from users";
resultSet = statement.executeQuery(sql);
while(resultSet.next()){
%>

```

```

<tr>
<td><%=resultSet.getString("first_name") %></td>
<td><%=resultSet.getString("last_name") %></td>
<td><%=resultSet.getString("city_name") %></td>
<td><%=resultSet.getString("email") %></td>
<td><a href="update.jsp?id=<%=resultSet.getString("id") %>">UPDATE</a></td>
<td><a href="delete.jsp?id=<%=resultSet.getString("id") %>">DELETE</a></td>

</tr>

<%
}
connection.close();
} catch (Exception e) {
e.printStackTrace();
}
%>

</table>

</body>

</html>

```

output:



Retrieve data from database in jsp

first name	last name	City name	Email	Action	
Zulkar	Nine	Dhaka	zns601@gmail.com	UPDATE	DELETE
faruqee	hasan	Dhaka	faruqe@gmail.com	UPDATE	DELETE
Aminul	islam	khulna	aminul@gmail.com	UPDATE	DELETE
Alomgir	hossain	Dhaka	alomgir@gmail.com	UPDATE	DELETE

Delete data

delete.jsp

```
<% @page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <% @page import = "java.sql.*" %>
    <title>JSP Page</title>
  </head>
  <body>
    <%
      String id=request.getParameter("id");
      try
      {
        Class.forName("com.mysql.jdbc.Driver");
        Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/jspdb",
          "root", "");
```



```
Statement st=conn.createStatement();

int i=st.executeUpdate("DELETE FROM users WHERE id="+id);

out.println("Data Deleted Successfully!");

}

catch(Exception e)

{

System.out.print(e);

e.printStackTrace();

}

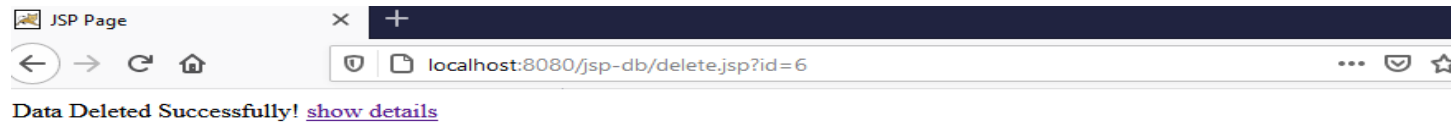
%>

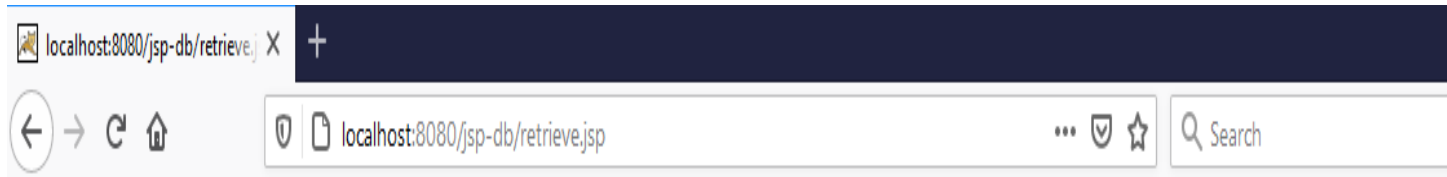

<a href="retrieve.jsp">show details</a>

</body>

</html>
```

output:





Retrieve data from database in jsp

first name	last name	City name	Email	Action	
Zulkar	Nine	Dhaka	zns601@gmail.com	UPDATE	DELETE
faruquee	hasan	Dhaka	faruqe@gmail.com	UPDATE	DELETE
Alomgir	hossain	Dhaka	alomgir@gmail.com	UPDATE	DELETE

Update data

update.jsp

```
<% @page import="java.sql.DriverManager"%>
<% @page import="java.sql.ResultSet"%>
<% @page import="java.sql.Statement"%>
<% @page import="java.sql.Connection"%>
<%
String id = request.getParameter("id");

String driver = "com.mysql.jdbc.Driver";
String connectionUrl = "jdbc:mysql://localhost:3306/";
String database = "jspdb";
```

```

String userid = "root";
String password = "";
try {
    Class.forName(driver);
} catch (ClassNotFoundException e) {
    e.printStackTrace();
}
Connection connection = null;
Statement statement = null;
ResultSet resultSet = null;
%>
<%
try{
    connection = DriverManager.getConnection(connectionUrl+database, userid, password);
    statement=connection.createStatement();
    String sql ="select * from users where id="+id;
    resultSet = statement.executeQuery(sql);
    while(resultSet.next()){
    %>
<!DOCTYPE html>
<html>
    <body style="background-color: yellow">
        <div style="text-align: center;">
            <h1>Update data from database in jsp</h1>
            <form method="post" action="update-process.jsp">
                <input type="hidden" name="id" value="<%=resultSet.getString("id") %>">
                <input type="text" name="id" value="<%=resultSet.getString("id") %>"
readonly="">
                <br>
                First name:<br>

```

```

        <input type="text" name="first_name"
value="<%=resultSet.getString("first_name") %>">

        <br>

        Last name:<br>

        <input type="text" name="last_name"
value="<%=resultSet.getString("last_name") %>">

        <br>

        City name:<br>

        <input type="text" name="city_name"
value="<%=resultSet.getString("city_name") %>">

        <br>

        Email Id:<br>

        <input type="email" name="email" value="<%=resultSet.getString("email")
%>">

        <br><br>

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

        </form>

        <%

        }

        connection.close();

        } catch (Exception e) {

        e.printStackTrace();

        }

        %>

    </div>

</body>

</html>

```

output:

localhost:8080/jsp-db/update.jsp X +

localhost:8080/jsp-db/update.jsp?id=1 Search

Update data from database in jsp

1
First name:
Zulkar
Last name:
Nine
City name:
Dhaka
Email Id:
zns601@gmail.com
submit

update-process.jsp

```
<% @ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

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

<%! String driverName = "com.mysql.jdbc.Driver";%>

<%!String url = "jdbc:mysql://localhost:3306/jspdb";%>

<%!String user = "root";%>

<%!String psw = "";%>

<%

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

String first_name=request.getParameter("first_name");
```

```

String last_name=request.getParameter("last_name");
String city_name=request.getParameter("city_name");
String email=request.getParameter("email");
if(id != null)
{
    Connection con = null;
    PreparedStatement ps = null;
    int personID = Integer.parseInt(id);
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection(url,user,psw);
        String sql="Update users set id=?,first_name=?,last_name=?,city_name=?,email=? where
id="+id;
        ps = con.prepareStatement(sql);
        ps.setString(1,id);
        ps.setString(2, first_name);
        ps.setString(3, last_name);
        ps.setString(4, city_name);
        ps.setString(5, email);
        int i = ps.executeUpdate();
        if(i > 0)
        {
            out.print("Record Updated Successfully");
        }
        else
        {
            out.print("There is a problem in updating Record.");
        }
    }
}

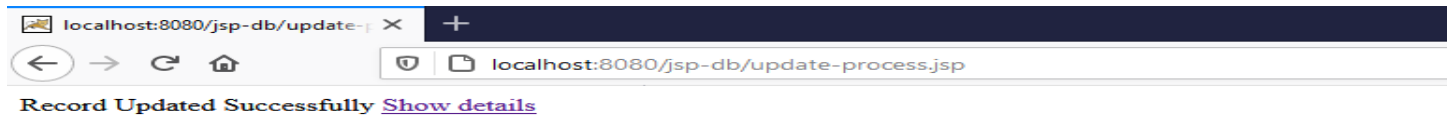
```

```
catch(SQLException sql)
{
    request.setAttribute("error", sql);
    out.println(sql);
}
}

%>

<a href="retrieve.jsp">Show details</a>
```

output:



Retrieve data from database in jsp

first name	last name	City name	Email	Action	
Zulkar	Nine	Narayangonj	zns601@gmail.com	UPDATE	DELETE
faruqee	hasan	Dhaka	faruqe@gmail.com	UPDATE	DELETE
Alomgir	hossain	Dhaka	alomgir@gmail.com	UPDATE	DELETE