ASSIGNMENT

ON

JSP JDBC MySQL

COURSE NAME: ADVANCE ENTERPRISE JAVA (LAB)

COURSE CODE: SE 410

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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">
```
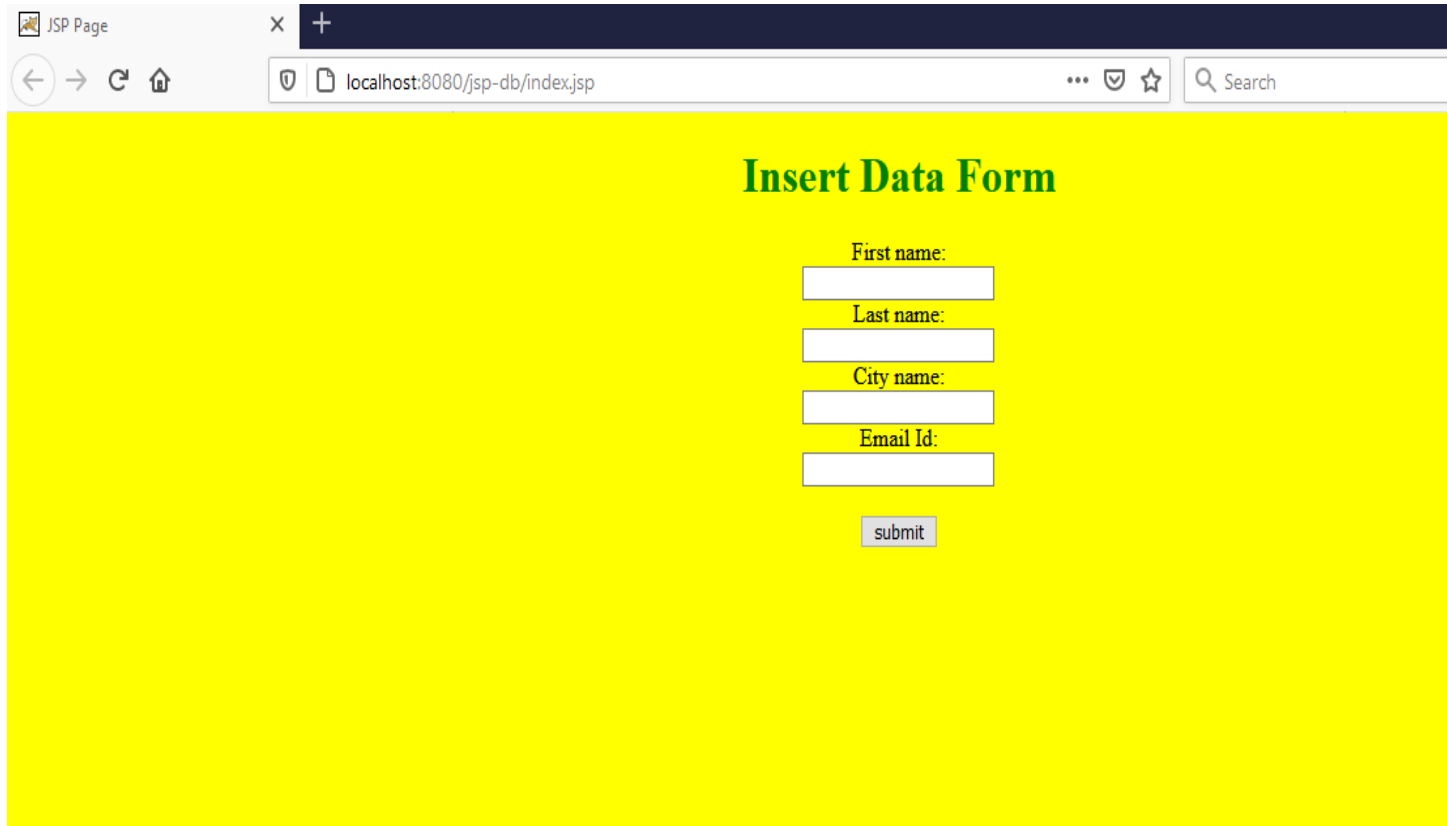
```
                  </form>

               </div>

            </body>

         </html>
```

output:

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>
```

```jsp
    </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:

Data is successfully inserted!
Insert More
show details

Read data

retrieve.jsp
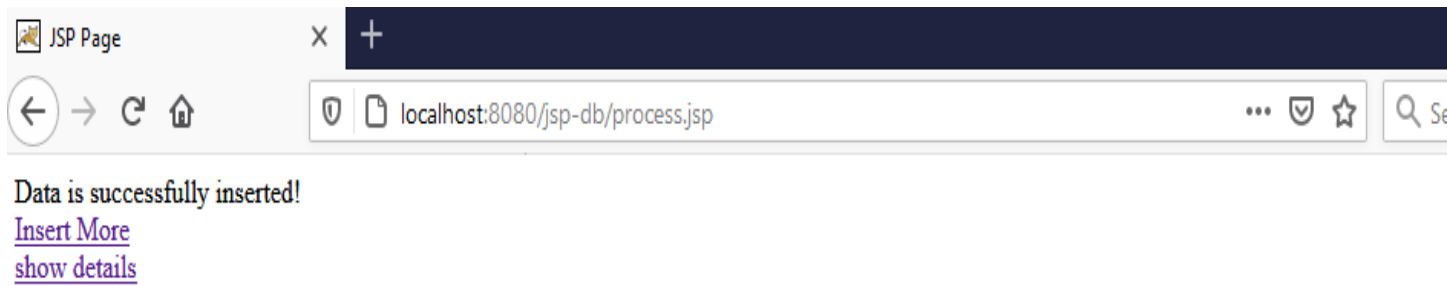
```
<%@page import="java.sql.DriverManager"%>

<%@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);
```

```jsp
} catch (ClassNotFoundException e) {

e.printStackTrace();

}

Connection connection = null;

Statement statement = null;

ResultSet resultSet = null;

%>
```

```html
<!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>
```

```jsp
<%

try{

connection = DriverManager.getConnection(connectionUrl+database, userid, password);

statement=connection.createStatement();

String sql ="select * from users";

resultSet = statement.executeQuery(sql);

while(resultSet.next()){

%>
```

```jsp
<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:

localhost:8080/jsp-db/retrieve.j × +

← → C ⌂   🛇 🗋 localhost:8080/jsp-db/retrieve.jsp   … ☑ ☆   Q Search

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

```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();
}
%>
```
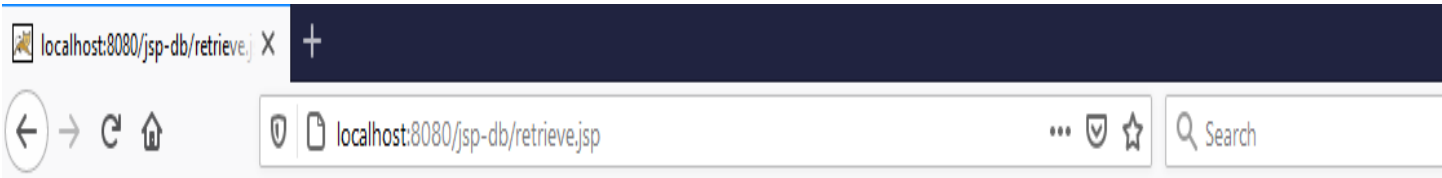
```
<a href="retrieve.jsp">show details</a>

    </body>

</html>
```

output:

Data Deleted Successfully! show details

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
Alomgir	hossain	Dhaka	alomgir@gmail.com	UPDATE	DELETE

Update data

```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;
```

```jsp
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>

            <%
```
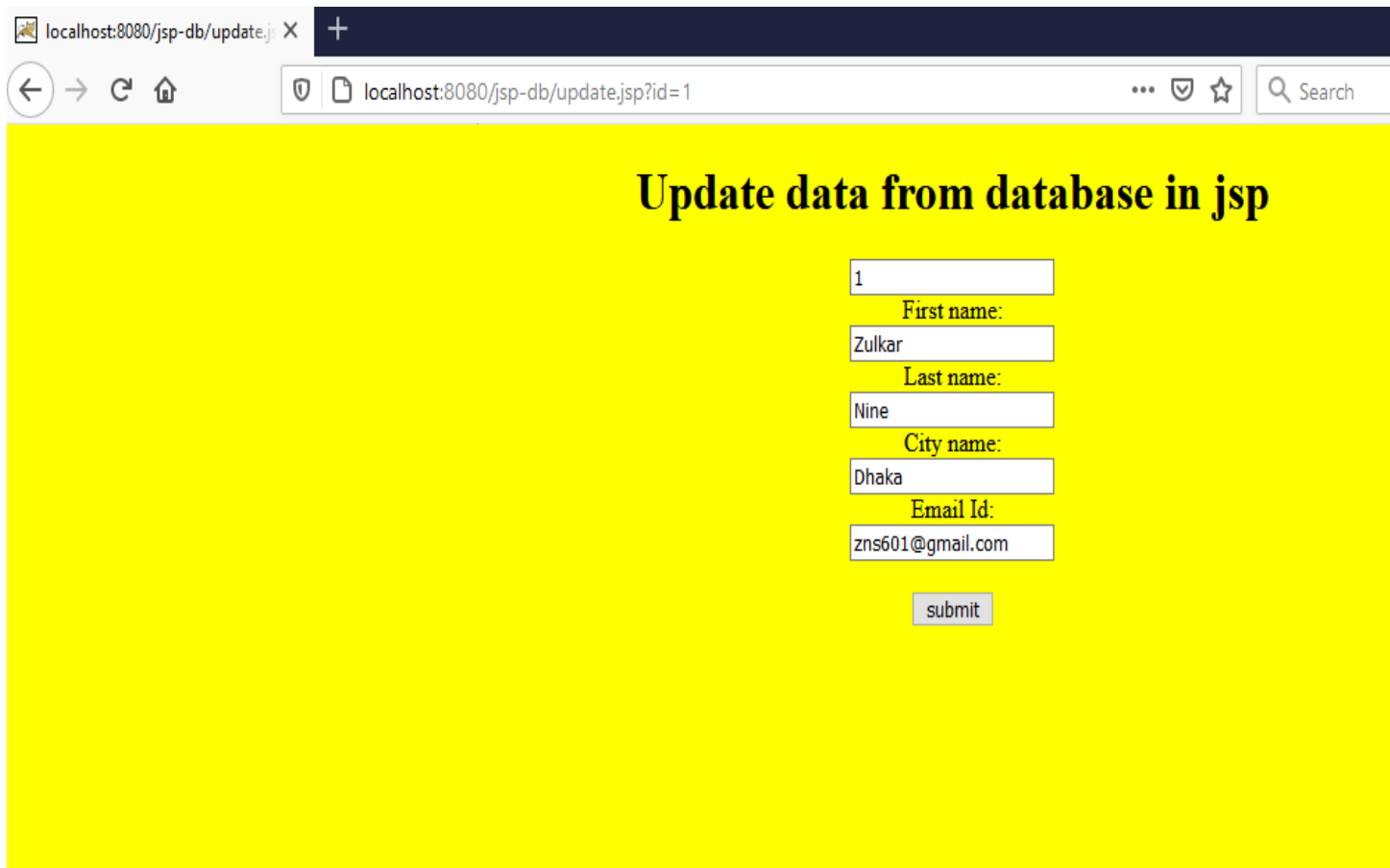
```
                }
                connection.close();
                } catch (Exception e) {
                e.printStackTrace();
                }
                %>
            </div>
        </body>
    </html>
```

output:

update-process.jsp

```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);
```
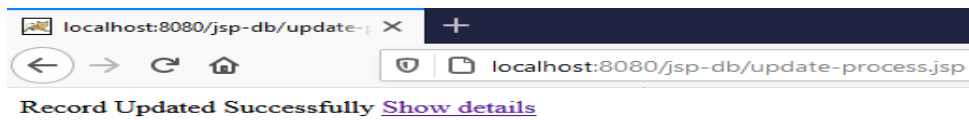
```
ps.setString(5, email);

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:

localhost:8080/jsp-db/update-process.jsp

Record Updated Successfully Show details

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