PRACTICAL-8

AIM: To develop a web application using JSP and JDBC.

Code:

index.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
 pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.DriverManager" %>
<%@page import="java.sql.ResultSet" %>
<%@page import="java.sql.Statement" %>
<%@page import="java.sql.Connection" %>
<%
```

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```jsp
String id = request.getParameter("userId");
String driverName = "com.mysql.jdbc.Driver";
String connectionUrl = "jdbc:mysql://localhost:3306/";
String dbName = "demo";
String userId = "root";
String password = "";
try{
Class.forName(driverName);
}catch(ClassNotFoundException e){
e.printStackTrace();
}
Connection connection = null;
Statement statement = null;
ResultSet resultSet = null;
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Practical 8</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
KK94CHFLLe+nY2dmCWGMq91rCGa5gtU4mk92HdvYe+M/SXH301p5ILy+
dN9+nJOZ"
crossorigin="anonymous">
</head>
<body>
<h1>Add Books</h1>
<form class="row g-3" action="process.jsp">
```

```html
 <div class="col-auto">
 <label for="inputPassword2" class="visually-hidden">book_name</label>
 <input type="text" class="form-control" name="book_name"
id="inputPassword2"
placeholder="Book Name">
 </div>
 <div class="col-auto">
 <label for="inputPassword2" class="visually-hidden">book_price</label>
 <input type="number" class="form-control" name="price"
id="inputPassword2"
placeholder="Book Price">
 </div>
 <div class="col-auto">
 <label for="inputPassword2" class="visually-hidden">Author</label>
 <input type="text" class="form-control" name="Author" id="inputPassword2"
placeholder="Book Author">
 </div>
 <div class="col-auto">
 <button type="submit" class="btn btn-primary mb-3">Confirm
identity</button>
 </div>
</form>
<br><br><Br>
<table class="table">
<tr>
<th scope="col"><b>id</b></th>
<th scope="col"><b>book_name</b></th>
<th scope="col"><b>book_Price</b></th>
```

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```html
<th scope="col"><b>Author</b></th>
<th scope="col"><b>Action</b></th>
</tr>
<%
try{
connection = DriverManager.getConnection(connectionUrl+dbName, userId,
password);
statement = connection.createStatement();
String sql = "SELECT * From book";
resultSet = statement.executeQuery(sql);
while(resultSet.next()){
%>
```

```jsp
<tr>
<td><%=resultSet.getString("id") %></td>
<td><%=resultSet.getString("book_name") %></td>
<td><%=resultSet.getString("price") %></td>
<td><%=resultSet.getString("Author") %></td>
<td><a
href="update.jsp?id=<%=resultSet.getString("id")%>">Update</a></td>
</tr>
<%
}
}catch(Exception e){
e.printStackTrace();
}
%>
</table>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.7/dist/umd/popper.min.j
s"
integrity="sha384-
zYPOMqeu1DAVkHiLqWBUTcbYfZ8osu1Nd6Z89ify25QV9guujx43ITvfi12/
QExE"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/js/bootstrap.min.js" integrity="sha384-
Y4oOpwW3duJdCWv5ly8SCFYWqFDsfob/3GkgExXKV4idmbt98QcxXYs9U
oXAB7BZ"
crossorigin="anonymous"></script></body>
</html>
```

process.jsp
```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
 pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.*,java.util.*"%>
<%
String book_name = request.getParameter("book_name");
String price = request.getParameter("price");
String author = request.getParameter("Author");
try{
Class.forName("com.mysql.jdbc.Driver");
Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/demo","root","");
Statement st = conn.createStatement();
int i = st.executeUpdate("insert into book(book_name,price,author)
values ('"+book_name+"','"+price+"','"+author+"')");
```

```jsp
out.println("Data is Successfully inserted!");
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response.sendRedirect("index.jsp");
}
catch(Exception e){
System.out.print(e);
e.printStackTrace();
}
%>
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 = "demo";
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 book where id="+id;
resultSet = statement.executeQuery(sql);
while(resultSet.next()){
%>
<!DOCTYPE html>
<html>
```

```
<body>
<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") %>">
<br>
book_name:<br>
<input type="text" name="book_name"
value="<%=resultSet.getString("book_name")
%>">
<br>
price:<br>
<input type="text" name="price" value="<%=resultSet.getString("price") %>">
<br>
Author:<br>
<input type="text" name="Author" value="<%=resultSet.getString("Author")
%>">
<br><br>
<input type="submit" value="submit">
</form>
```

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

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/demo";%>
<%!String user = "root";%>
<%!String psw = "";%>
<%
String id = request.getParameter("id");
String book_name = request.getParameter("book_name");
```

```
String price = request.getParameter("price");
String Author = request.getParameter("Author");
if(id != null)
{
Connection con = null;
PreparedStatement ps = null;
int book_id = Integer.parseInt(id);
try
{
Class.forName(driverName);
con = DriverManager.getConnection(url,user,psw);
String sql="Update book set id=?,book_name=?,price=?,Author=? where
id="+id;
ps = con.prepareStatement(sql);
ps.setString(1,id);
ps.setString(2, book_name);
ps.setString(3, price);
ps.setString(4, Author);
int i = ps.executeUpdate();
if(i > 0)
{
out.print("Record Updated Successfully");
response.sendRedirect("index.jsp");
}
else
{
out.print("There is a problem in updating Record.");
}
}
catch(SQLException sql)
{
request.setAttribute("error", sql);
out.println(sql);
}
}
%>
```