Forms in JSP

Forms.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Forms</title>
</head>
<body>
<h1>Basic Forms</h1>
    <form action="submit.jsp" method="get">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>
        <br>
        <label for="mobile">Mobile Number:</label>
        <input type="tel" id="mobile" name="mobile" pattern="[0-9]{10}"
required>
        <small>Enter a 10-digit mobile number.</small>
        <br>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
        <br>
        <label>Gender:</label>
        <input type="radio" id="male" name="gender" value="male" required>
        <label for="male">Male</label>
        <input type="radio" id="female" name="gender" value="female"
required>
        <label for="female">Female</label>
        <input type="radio" id="other" name="gender" value="other" required>
        <label for="other">Other</label>
        <br>
        <input type="submit" value="Submit">
    </form>
</body>
</html>
```

Submit.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Submit Page</title>
</head>
<body>
```
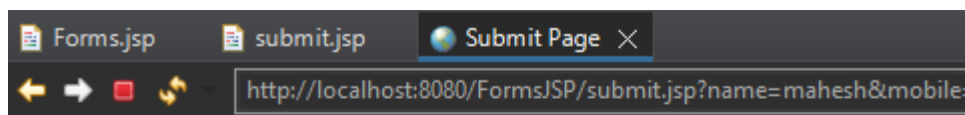
```
Name: <%=request.getParameter("name") %> <br/>
Email: <%=request.getParameter("email") %> <br/>
Mobile No: <%=request.getParameter("mobile") %> <br/>
</body>
</html>
```

Basic Forms

Name: mahesh
Mobile Number: 1234567890   Enter a 10-digit mobile number.
Email: mahesh@gmail.com
Gender: ⦿ Male ◯ Female ◯ Other
  Submit

Forms.jsp   submit.jsp   🌐 Submit Page ✕

← → ◻ ↻   http://localhost:8080/FormsJSP/submit.jsp?name=mahesh&mobile=

Name: mahesh
Email: mahesh@gmail.com
Mobile No: 1234567890

Sessions Forms:

```java
package org.example;
import java.io.IOException;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
public class SessionForms extends HttpServlet {
    private static final long serialVersionUID = 1L;
    public SessionForms() {
        // TODO Auto-generated constructor stub
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        // TODO Auto-generated method stub
    }
```

```java
            String username = request.getParameter("username");
            String password = request.getParameter("password");

            if(username.equals("maheshvaithi") && password.equals("123456"))
            {
                    request.getSession().invalidate();
                    HttpSession newSession = request.getSession();
                    newSession.setMaxInactiveInterval(500);
                    response.sendRedirect("member.jsp");
                    }
            else
            {
                    response.sendRedirect("index.jsp");
                    }
        }
}
```
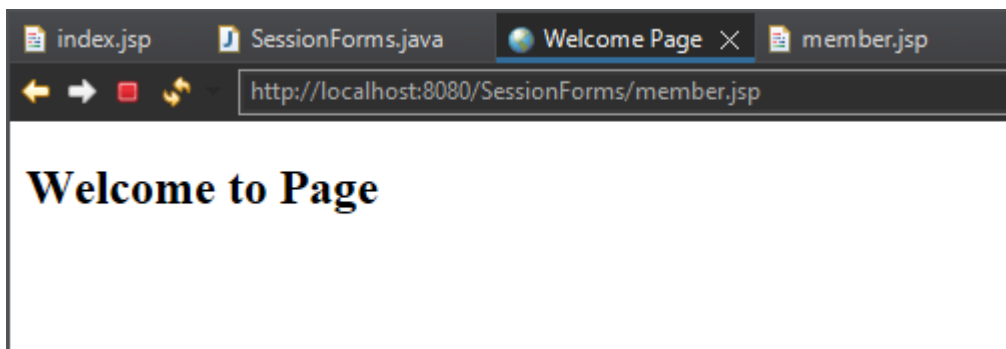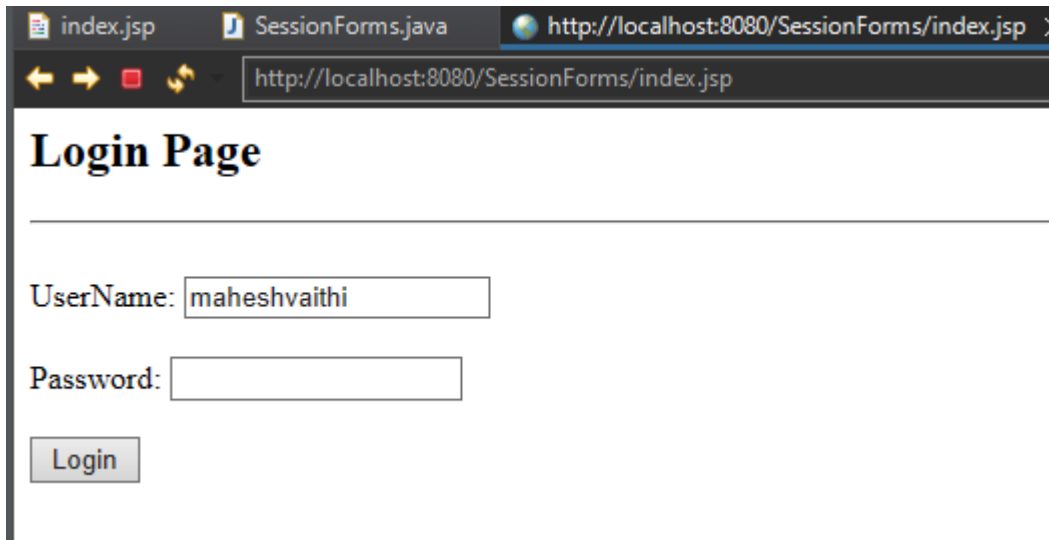
```html
<html>
<body>
<h2>Login Page</h2>
<hr/>
<br/>
<form action="<%=request.getContextPath()%>/SessionForms" method="post">
UserName: <input type="text" name="username"><br/><br/>
Password: <input type="password" name="password"><br/><br/>
<input type="submit" value="Login">
</form>
</body>
</html>
```

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Welcome Page</title>
</head>
<body>
<h2>Welcome to Page</h2>
</body>
</html>
```

Login Page

UserName: maheshvaithi

Password:

Login

Welcome to Page

All the concepts of cookies and beans refer code Session Forms.

Database Connectivity in JSP Maven:

Some of the Output :

```java
package org.example;
import java.io.IOException;
import java.util.*;
import org.example.entity.User;
import org.example.model.UsersModel;
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("/Home")
public class Home extends HttpServlet {
        private static final long serialVersionUID = 1L;
        protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
                String page = request.getParameter("page").toLowerCase();
```

```java
            switch(page) {
            case "home":{
                    request.getRequestDispatcher("index.jsp").forward(request,
response);
                    break;
            }
            case "listusers":{

                    List<User> users = new ArrayList<>();
                    users = new UsersModel().listuser();
                    request.setAttribute("listusers",users);

request.getRequestDispatcher("listusers.jsp").forward(request, response);
                    break;
            }
            default:
                    request.getRequestDispatcher("error.jsp").forward(request,
response);
                    break;
            }


        }

        protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {

            doGet(request, response);
        }
}
```

```java
package org.example;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
public class DatabaseConfig {

        // to setup the database connection

        public static Connection getConnection(){

                //database connection

                String dburl =
"jdbc:mysql://localhost:3306/exampledb?useSSL=false";
                String dbname = "root";
                String dbpass = "root";

                Connection con = null;

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

```java
                con = DriverManager.getConnection(dburl,dbname,dbpass);
            }
            catch(ClassNotFoundException e)
            {
                e.printStackTrace();
            }
            catch(SQLException e)
            {
                e.printStackTrace();
            }
            return con;

    }

}
```

```java
package org.example.entity;
public class User {

    private int user_id;
    private String user_name;

    public User(int user_id, String user_name) {
        super();
        this.user_id = user_id;
        this.user_name = user_name;
    }
    public int getUser_id() {
        return user_id;
    }
    public void setUser_id(int user_id) {
        this.user_id = user_id;
    }
    public String getUser_name() {
        return user_name;
    }
    public void setUser_name(String user_name) {
        this.user_name = user_name;
    }

}
```

```java
package org.example.model;
import java.util.*;
import java.sql.*;
import org.example.DatabaseConfig;
import org.example.entity.User;
public class UsersModel {
```

```java
    public List<User> listuser(){
        List<User> listusers = new ArrayList<User>();

        //initialize the connection object
        Connection connect = DatabaseConfig.getConnection();

        Statement stmt = null;

        ResultSet rs = null;

        // creation of query and execute it

        String q = "Select * from users";

        try {
            stmt=connect.createStatement();

            // execution of query

            rs = stmt.executeQuery(q);

            while(rs.next()) {
                listusers.add(new
User(rs.getInt("user_id"),rs.getString("user_name")));
            }


        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }




        return listusers;

    }
}
```

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page import="java.util.*" %>
    <%@ page import="org.example.entity.User" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>List Users</title>
```

```
</head>
<body>
<h3>List Users</h3>
<hr/>
<table border="1">
<thead>
<th>UserId</th>
<th>UserName</th>
</thead>
<%
List<User> listusers = (List)request.getAttribute("listusers");
for(User u:listusers){
    out.print("<tr>");
    out.print("<td>"+u.getUser_id()+"</td>");
    out.print("<td>"+u.getUser_name()+"</td>");
    out.print("<tr>");
}
%>
</table>
</body>
</html>
```

```
<html>
<body>
<jsp:include page="include/header.jsp"/>
<hr/>
<br/>
<h2>Database Connectivity in Maven</h2>
<br/>
<hr/>
<jsp:include page="include/footer.jsp"/>
</body>
</html>
```

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title></title>
</head>
<body>
<h2>HomePage</h2>
<br/>
<h3><a href="<%=request.getContextPath()%>/Home?page=home">Home</a></h3>
<br/>
<h3><a
href="<%=request.getContextPath()%>/Home?page=listusers">UsersList</a></h3>
</body>
</html>
```
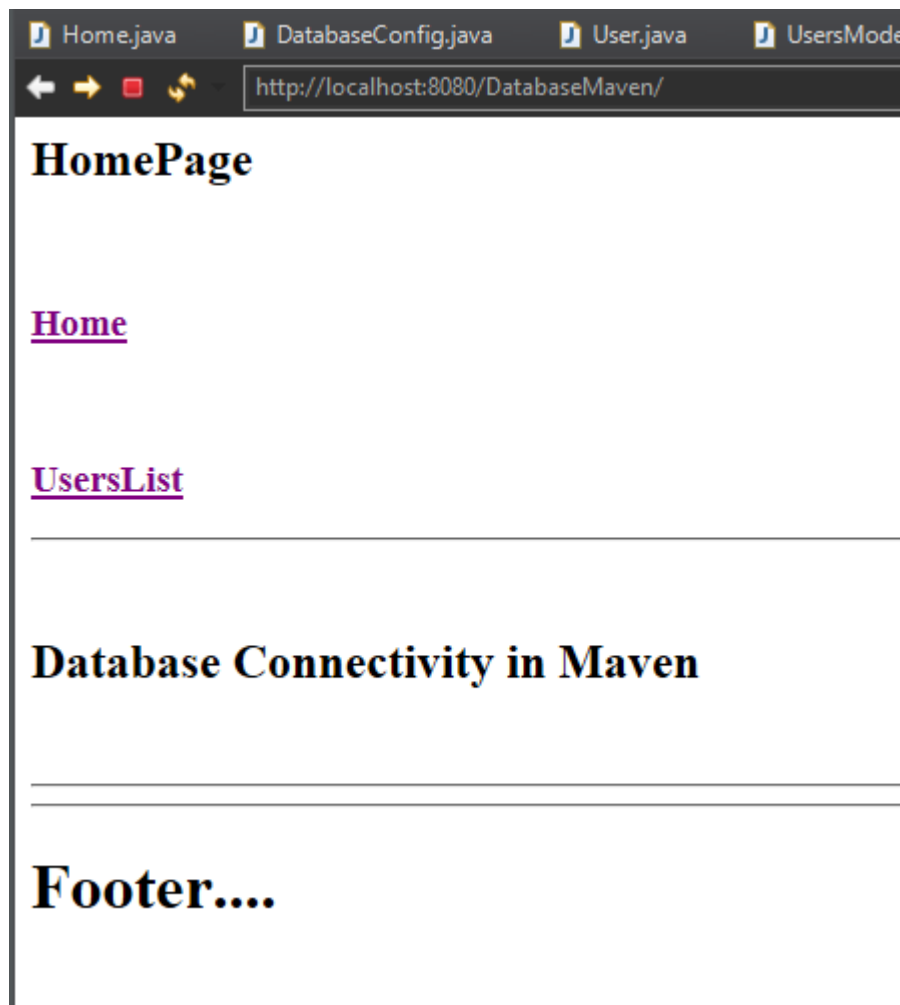
```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title></title>
</head>
<body>
<hr/>
<h1>Footer....</h1>
</body>
</html>
```

Output as follows:

While clicking home it will be into home directory:

On clicking users list it navigate to users page.