

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <title>Welcome</title>
6     <link rel="stylesheet" href="css/main.css">
7 </head>
8 <body>
9     <h1>Welcome to my website</h1>
10    <span>Please</span>
11    <form action="enter" method="post">
12        <input type="hidden" name="fromPage" value="idxSignUp">
13        <input type="submit" value="SignUp">
14    </form>
15    <span>or</span>
16    <form action="enter" method="post">
17        <input type="hidden" name="fromPage" value="idxLogin">
18        <input type="submit" value="Login">
19    </form>
20    <span>to have access to my website.</span>
21 </body>
22 </html>
```

```
1 <%--
2   Created by IntelliJ IDEA.
3   User: mhm85
4   Date: 9/30/2019
5   Time: 2:16 PM
6   To change this template use File | Settings | File Templates.
7 --%>
8 <%@ page contentType="text/html; charset=UTF-8" language="java" %>
9 <html>
10 <head>
11     <title>Log In</title>
12     <link rel="stylesheet" href="css/main.css">
13 </head>
14 <body>
15     <h1>Log in</h1>
16     <br>
17     <br>
18     <form action="enter" method="post">
19         <input type="hidden" name="fromPage" value="login">
20         <label>Username </label><input type="text" name="username"
21         required><br>
22         <label>Password </label><input type="password" name="password"
23         required><br>
24         <br>
25         <input type="submit" value="LoggingIn">
26     </form>
27 </body>
28 </html>
```

```
1 <%--
2   Created by IntelliJ IDEA.
3   User: mhm85
4   Date: 9/30/2019
5   Time: 2:13 PM
6   To change this template use File | Settings | File Templates.
7 --%>
8 <%@ page contentType="text/html; charset=UTF-8" language="java" %>
9 <html>
10 <head>
11     <title>Sign Up</title>
12     <link rel="stylesheet" href="css/main.css">
13 </head>
14 <body>
15     <h1>Sign Up providing the following information</h1>
16     <br>
17     <br>
18     <form action="enter" method="post">
19         <input type="hidden" name="fromPage" value="signUp">
20         <label>Username </label><input type="text" name="username"
21         required><br>
22         <label>Password </label><input type="password" name="password"
23         required><br>
24         <br>
25         <input type="submit" value="Submit">
26     </form>
27 </body>
28 </html>
```

```
1 <%--
2   Created by IntelliJ IDEA.
3   User: mhm85
4   Date: 9/30/2019
5   Time: 2:18 PM
6   To change this template use File | Settings | File Templates.
7 --%>
8 <%@ page contentType="text/html; charset=UTF-8" language="java" %>
9 <html>
10 <head>
11     <title>Success</title>
12     <link rel="stylesheet" href="css/main.css">
13 </head>
14 <body>
15     <h1>Successful Login Page</h1>
16     <p>${user.username} with ${user.password}</p>
17 </body>
18 </html>
19
```

```
1 body {
2     border: 2px solid black;
3     margin: auto;
4     width: 30%;
5     height: 250px;
6 }
7
8 span {
9     display: inline;
10 }
```

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
3         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4         xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http
: //xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd"
5         version="4.0">
6
7     <servlet>
8         <servlet-name>AuthServlet</servlet-name>
9         <servlet-class>AuthServlet</servlet-class>
10    </servlet>
11
12    <servlet-mapping>
13        <servlet-name>AuthServlet</servlet-name>
14        <url-pattern>/enter</url-pattern>
15    </servlet-mapping>
16
17 </web-app>
```

```
1 import java.io.Serializable;
2
3 public class User implements Serializable {
4     private String username;
5     private String password;
6
7     public User() {
8     }
9
10    public User(String username, String password) {
11        this.username = username;
12        this.password = password;
13    }
14
15    public String getUsername() {
16        return username;
17    }
18
19    public void setUsername(String username) {
20        this.username = username;
21    }
22
23    public String getPassword() {
24        return password;
25    }
26
27    public void setPassword(String password) {
28        this.password = password;
29    }
30 }
31
```

```
1 import javax.servlet.ServletException;
2 import javax.servlet.annotation.WebServlet;
3 import javax.servlet.http.HttpServlet;
4 import javax.servlet.http.HttpServletRequest;
5 import javax.servlet.http.HttpServletResponse;
6 import java.io.IOException;
7 import java.util.ArrayList;
8
9 @WebServlet(name = "AuthServlet")
10 public class AuthServlet extends HttpServlet {
11
12     @Override
13     protected void doPost(HttpServletRequest request,
14         HttpServletResponse response) throws ServletException, IOException {
15         ArrayList<User> arrLstUsers = new ArrayList<>();
16         arrLstUsers.add(new User("joe.smith", "1234"));
17         arrLstUsers.add(new User("harold.arnold", "1111"));
18         arrLstUsers.add(new User("sally.johnson", "9999"));
19
20         String fromPage = request.getParameter("fromPage");
21         String url = "/index.html";
22
23         if (fromPage == null) {
24             fromPage = "home";
25         }
26
27         if (fromPage.equals("home")) {
28             url = "/index.html";
29         }
30         else if (fromPage.equals("idxSignUp")) {
31             url = "/signup.jsp";
32         }
33         else if (fromPage.equals("idxLogin")) {
34             url = "/login.jsp";
35         }
36         else if (fromPage.equals("signUp")) {
37             User user = new User();
38             user.setUsername(request.getParameter("username"));
39             user.setPassword(request.getParameter("password"));
40
41             if (checkIfExists(arrLstUsers, user)) {
42                 url = "/login.jsp";
43             }
44             else {
45                 arrLstUsers.add(user);
46             }
47         }
48     }
49 }
```



```
45         url = "/index.html";
46     }
47 }
48 else if (fromPage.equals("login")) {
49     User user = new User();
50     user.setUsername(request.getParameter("username"));
51     user.setPassword(request.getParameter("password"));
52
53     if (checkIfExists(arrLstUsers, user)) {
54         request.setAttribute("user", user);
55         url = "/success.jsp";
56     }
57     else {
58         url = "/signup.jsp";
59     }
60 }
61
62     getServletContext().getRequestDispatcher(url).forward(request,
response);
63 }
64
65     @Override
66     protected void doGet(HttpServletRequest request,
HttpServletRequest response) throws ServletException, IOException {
67         doPost(request, response);
68     }
69
70     private boolean checkIfExists(ArrayList<User> aList, User ul) {
71         boolean exists = false;
72         int count = 0;
73
74         while (exists == false && count < aList.size()) {
75             if (aList.get(count).getUsername().equals(ul.getUsername())
76 )) {
77                 exists = true;
78             }
79             count++;
80         }
81         return exists;
82     }
83 }
84
```