

```
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
```