

```
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.DataInput;
7  import java.io.IOException;
8  import java.util.ArrayList;
9
10 @WebServlet(name = "MyServlet")
11 public class MyServlet extends HttpServlet {
12     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
13         ServletException, IOException {
14         String action = request.getParameter("
15         action");
16         String url = "/index.jsp";
17
18         if (action == null) {
19             action = "home";
20         }
21
22         if (action.equals("home")) {
23             url = "/index.jsp";
24         }
25         else if (action.equals("add")) {
26             String firstName = request.getParameter
27                 ("firstName");
28             String lastName = request.getParameter(
29                 "lastName");
30             String email = request.getParameter("
31             email");
32         }
33     }
34 }
```

```
28         User user = new User(0, firstName,
    lastName, email);
29
30         DatabaseTools.insert(user);
31
32         request.setAttribute("user", user);
33
34         url = "/thanks.jsp";
35     }
36     else if (action.equals("returnOrManage")) {
37         if (request.getParameter("return") !=
    null) {
38             url = "/index.jsp";
39         }
40         else if (request.getParameter("manage")
    != null) {
41             ArrayList<User> users =
    DatabaseTools.selectAllUsers();
42             request.setAttribute("users", users
    );
43             url = "/modify.jsp";
44         }
45     }
46     else if (action.equals("modify")) {
47         if (request.getParameter("update") !=
    null) {
48             String firstName = request.
    getParameter("firstName");
49             String lastName = request.
    getParameter("lastName");
50             String email = request.getParameter
    ("email");
51
```

```
52         User user = new User(0, firstName,
    lastName, email);
53
54         DatabaseTools.update(user);
55
56         ArrayList<User> users =
    DatabaseTools.selectAllUsers();
57
58         request.setAttribute("users", users
    );
59
60         url = "/modify.jsp";
61     }
62     else if (request.getParameter("delete")
    != null) {
63         String firstName = request.
    getParameter("firstName");
64         String lastName = request.
    getParameter("lastName");
65
66         DatabaseTools.delete(firstName,
    lastName);
67
68         ArrayList<User> users =
    DatabaseTools.selectAllUsers();
69
70         request.setAttribute("users", users
    );
71
72         url = "/modify.jsp";
73     }
74 }
75
```

```
76         getServletContext().getRequestDispatcher(  
            url).forward(request, response);  
77     }  
78  
79     protected void doGet(HttpServletRequest request  
        request, HttpServletResponse response) throws  
        ServletException, IOException {  
80         doPost(request, response);  
81     }  
82 }  
83
```