

```
1  <%--
2    Created by IntelliJ IDEA.
3    User: mhm85
4    Date: 11/18/2019
5    Time: 2:22 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>Index</title>
12 </head>
13 <body>
14 <form action="doSomething" method="post">
15     <input type="hidden" value="page1">
16     <label>Name:</label><input type="text" name="
   userName" required><br>
17     <label>Email:</label><input type="text" name="
   userEmail" required><br>
18     <input type="submit" value="Send">
19 </form>
20 </body>
21 </html>
22
```

```
1  <%--
2    Created by IntelliJ IDEA.
3    User: mhm85
4    Date: 11/18/2019
5    Time: 2:48 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>Page2</title>
12 </head>
13 <body>
14 <%
15     String userName = request.getParameter("
   userName");
16     String userEmail = request.getParameter("
   userEmail");
17
18     out.println(userName);
19     out.println(userEmail);
20 %>
21 </body>
22 </html>
23
```

```
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>MyServlet</servlet-name>
9         <servlet-class>MyServlet</servlet-class>
10    </servlet>
11    <servlet-mapping>
12        <servlet-name>MyServlet</servlet-name>
13        <url-pattern>/doSomething</url-pattern>
14    </servlet-mapping>
15
16    <filter>
17        <filter-name>MyFilter1</filter-name>
18        <filter-class>MyFilter1</filter-class>
19    </filter>
20    <filter-mapping>
21        <filter-name>MyFilter1</filter-name>
22        <url-pattern>/doSomething</url-pattern>
23    </filter-mapping>
24
25    <filter>
26        <filter-name>MyFilter2</filter-name>
27        <filter-class>MyFilter2</filter-class>
28    </filter>
29    <filter-mapping>
30        <filter-name>MyFilter2</filter-name>
```

```
31         <url-pattern>/doSomething</url-pattern>  
32     </filter-mapping>  
33 </web-app>
```

```
1 import java.io.Serializable;
2
3 public class User implements Serializable {
4
5     private String userName;
6     private String userEmail;
7
8     public User() {
9         userName = "";
10        userEmail = "";
11    }
12
13    public User(String userName, String userEmail)
14    {
15        this.userName = userName;
16        this.userEmail = userEmail;
17    }
18
19    public String getUserName() {
20        return userName;
21    }
22
23    public void setUserName(String userName) {
24        this.userName = userName;
25    }
26
27    public String getUserEmail() {
28        return userEmail;
29    }
30
31    public void setUserEmail(String userEmail) {
32        this.userEmail = userEmail;
33    }
34 }
```

```
33
34     // Must override equals method to use contains
    method of ArrayList of User objects.
35     @Override
36     public boolean equals(Object obj) {
37         User myUser = (User) obj;
38         if (userName.equals(myUser.getUserName())
    && userEmail.equals(myUser.getUserEmail())) {
39             return true;
40         }
41         else {
42             return false;
43         }
44     }
45 }
46
```

```
1 import javax.servlet.*;
2 import javax.servlet.annotation.WebFilter;
3 import javax.servlet.http.HttpServletResponse;
4 import java.io.IOException;
5
6 @WebFilter(filterName = "MyFilter1")
7 public class MyFilter1 implements Filter {
8     public void destroy() {
9     }
10
11     public void doFilter(ServletRequest req,
12         ServletResponse resp, FilterChain chain) throws
13         ServletException, IOException {
14
15         // Get value entered in textboxes.
16         String userName = req.getParameter("
17         userName");
18         String userEmail = req.getParameter("
19         userEmail");
20
21         // Check if user entered a value in
22         textboxes.
23         if (userName.trim().length() != 0 &&
24         userEmail.trim().length() != 0) {
25             // Go to next action in chain.
26             chain.doFilter(req, resp);
27         }
28         else {
29             // Convert ServletResponse to
30             HttpServletResponse
31             HttpServletResponse httpResp = (
32             HttpServletResponse) resp;
33         }
34     }
35 }
```

```
26             // Redirect user to homepage.
27             httpResp.sendRedirect("/index.jsp");
28         }
29
30     }
31
32     public void init(FilterConfig config) throws
33     ServletException {
34     }
35
36 }
37
```



```
1 import javax.servlet.*;
2 import javax.servlet.annotation.WebFilter;
3 import javax.servlet.http.HttpServletResponse;
4 import java.io.IOException;
5 import java.util.ArrayList;
6
7 @WebFilter(filterName = "MyFilter2")
8 public class MyFilter2 implements Filter {
9     public void destroy() {
10    }
11
12    public void doFilter(ServletRequest req,
13        ServletResponse resp, FilterChain chain) throws
14        ServletException, IOException {
15
16        // ArrayList of dummy users.
17        ArrayList<User> users = new ArrayList<>();
18        users.add(new User("Anna", "anna@yahoo.com"
19    ));
20        users.add(new User("John", "john@yahoo.com"
21    ));
22
23        // Get values entered in textboxes.
24        String userName = req.getParameter("
25    userName");
26        String userEmail = req.getParameter("
27    userEmail");
28
29        // Create User object
30        User user = new User(userName, userEmail);
31
32        // Checks if User object exists in list
33        if (users.contains(user)) {
```

```
28             // Do next action.
29             chain.doFilter(req, resp);
30         }
31         else {
32             // Convert ServletResponse to
33             HttpServletResponse
34             HttpServletResponse httpResp = (
35             HttpServletResponse) resp;
36             // Redirect user to homepage.
37             httpResp.sendRedirect("/index.jsp");
38         }
39
40     }
41
42     public void init(FilterConfig config) throws
43     ServletException {
44     }
45
46 }
47
```

```
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
8 @WebServlet(name = "MyServlet")
9 public class MyServlet extends HttpServlet {
10     protected void doPost(HttpServletRequest request,
11         HttpServletResponse response) throws
12         ServletException, IOException {
13         String url = "/page2.jsp";
14         getServletContext().getRequestDispatcher(
15             url).forward(request, response);
16     }
17
18     protected void doGet(HttpServletRequest request,
19         HttpServletResponse response) throws
20         ServletException, IOException {
21         doPost(request, response);
22     }
23 }
```