

Phase2_1 : Practice Project

Write a Program for Validation of the User Login.

Source Code :

1. LoginServlet Code :

```
package code;

import java.io.IOException;
import java.io.PrintWriter;

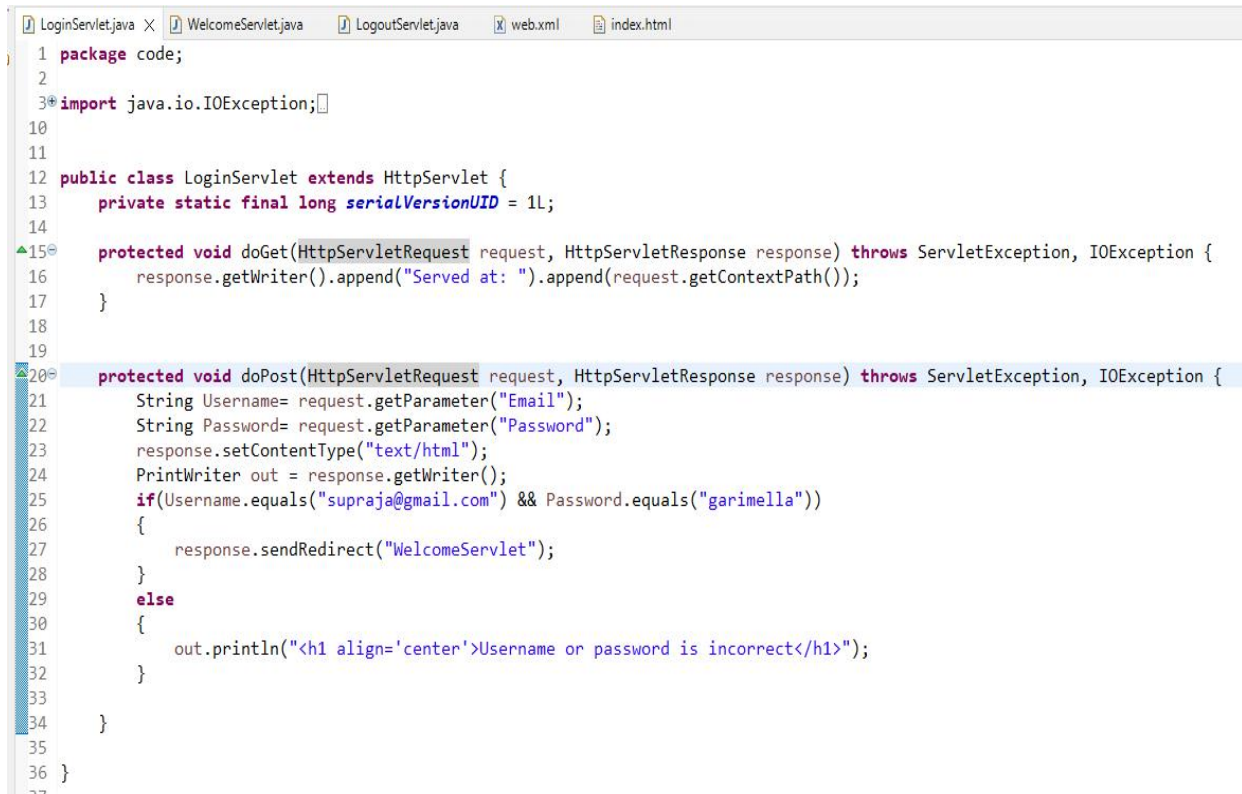
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

public class LoginServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        response.getWriter().append("Served at:
").append(request.getContextPath());
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        String Username= request.getParameter("Email");
        String Password= request.getParameter("Password");
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        if(Username.equals("supraja@gmail.com") &&
Password.equals("garimella"))
        {
            response.sendRedirect("WelcomeServlet");
        }
        else
        {
            out.println("<h1 align='center'>Username or password is
incorrect</h1>");
        }
    }
}
```

}



```
1 package code;
2
3 import java.io.IOException;
4
5
6
7
8
9
10
11
12 public class LoginServlet extends HttpServlet {
13     private static final long serialVersionUID = 1L;
14
15     protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
16         response.getWriter().append("Served at: ").append(request.getContextPath());
17     }
18
19
20     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
21         String Username= request.getParameter("Email");
22         String Password= request.getParameter("Password");
23         response.setContentType("text/html");
24         PrintWriter out = response.getWriter();
25         if(Username.equals("supraja@gmail.com") && Password.equals("garimella"))
26         {
27             response.sendRedirect("WelcomeServlet");
28         }
29         else
30         {
31             out.println("<h1 align='center'>Username or password is incorrect</h1>");
32         }
33     }
34 }
35
36 }
```

2. WelcomeServlet Code :

package code;

import java.io.IOException;
import java.io.PrintWriter;

import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

public class WelcomeServlet extends HttpServlet {
 private static final long serialVersionUID = 1L;

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

response.setContentType("text/html");
 PrintWriter out = response.getWriter();

```

        out.println("<h2 align='center'>Welcome User</h2><hr>");
        out.print("<h3 align='center'><a
href='LogoutServlet'>Logout</a></h3>");
    }

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

        doGet(request, response);
    }
}

```

```

1 package code;
2
3 import java.io.IOException;
4
10
11 public class WelcomeServlet extends HttpServlet {
12     private static final long serialVersionUID = 1L;
13
14
15     protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
16
17         response.setContentType("text/html");
18         PrintWriter out = response.getWriter();
19
20         out.println("<h2 align='center'>Welcome User</h2><hr>");
21         out.print("<h3 align='center'><a href='LogoutServlet'>Logout</a></h3>");
22     }
23
24     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
25
26         doGet(request, response);
27     }
28
29 }
30

```

3. LogoutServlet Code :

```

package code;

import java.io.IOException;
import java.io.PrintWriter;

import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

```

```

public class LogoutServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        PrintWriter out=response.getWriter();
        out.print("<h1 align='center'>Logged Out Successfully</h1>");
    }
    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {

        doGet(request, response);
    }
}

```



```

1 package code;
2
3 import java.io.IOException;
4
5
6
7
8
9
10
11
12 public class LogoutServlet extends HttpServlet {
13     private static final long serialVersionUID = 1L;
14
15
16     protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
17         PrintWriter out=response.getWriter();
18         out.print("<h1 align='center'>Logged Out Successfully</h1>");
19     }
20
21
22
23     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
24
25         doGet(request, response);
26     }
27
28 }
29

```

4. index.html :

```

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

```

```
<title>User Validation</title>

</head>

<body>

    <h1>Validation of UserLogin</h1>

    <div class='center'>

        <form action="LoginServlet" method="post">

            User Name: <input type="text" name="Email" placeholder="Enter UserName"
/><br>

            <br>

            Password: <input type="password" name="Password" placeholder="Enter
Password" /><br>

            <br>

            <input type="submit" value="Submit"/>

        </form>

    </div>

</body>

</html>
```



The screenshot shows an IDE with several tabs: LoginServlet.java, WelcomeServlet.java, LogoutServlet.java, web.xml, and index.html. The index.html tab is active, displaying the following HTML code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="UTF-8">
5 <title>User Validation</title>
6 </head>
7 <body>
8     <h1>Validation of UserLogin</h1>
9     <div class='center'>
10         <form action="LoginServlet" method="post">
11             User Name: <input type="text" name="Email" placeholder="Enter UserName" /><br>
12             <br>
13             Password: <input type="password" name="Password" placeholder="Enter Password" /><br>
14             <br>
15             <input type="submit" value="Submit"/>
16         </form>
17     </div>
18 </body>
19 </html>
```

5. web.xml :

```
<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="https://jakarta.ee/xml/ns/jakartaee"
xmlns:web="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
https://jakarta.ee/xml/ns/jakartaee/web-app_5_0.xsd" id="WebApp_ID"
version="5.0">

    <display-name>ValidationOfUser</display-name>

    <welcome-file-list>

        <welcome-file>index.html</welcome-file>

        <welcome-file>index.jsp</welcome-file>

        <welcome-file>index.htm</welcome-file>

        <welcome-file>default.html</welcome-file>

        <welcome-file>default.jsp</welcome-file>

        <welcome-file>default.htm</welcome-file>

    </welcome-file-list>

    <!-- Login Servlet -->

    <servlet>

        <servlet-name>LoginServlet</servlet-name>

        <servlet-class>code.LoginServlet</servlet-class>

    </servlet>

    <servlet-mapping>

        <servlet-name>LoginServlet</servlet-name>

        <url-pattern>/LoginServlet</url-pattern>

    </servlet-mapping>
```

<!-- Logout Servlet -->

<servlet>

<servlet-name>LogoutServlet</servlet-name>

<servlet-class>code.LogoutServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>LogoutServlet</servlet-name>

<url-pattern>/LogoutServlet</url-pattern>

</servlet-mapping>

<!-- Welcome Servlet -->

<servlet>

<servlet-name>WelcomeServlet</servlet-name>

<servlet-class>code.WelcomeServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>WelcomeServlet</servlet-name>

<url-pattern>/WelcomeServlet</url-pattern>

</servlet-mapping>

</web-app>