

Validation of User Login Source code:

login.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
<h2>Login</h2>
<form action="login" method="POST">
<label for="email">Email:</label>
<input type="text" id="email" name="email" required><br>
<label for="password">Password:</label>
<input type="password" id="password" name="password" required><br>
<input type="submit" value="Login">
</form>
</body>
</html>
```

dashboard.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Dashboard</title>
</head>
<body>
<h2>Welcome to the Dashboard</h2>
<a href="logout">Logout</a>
</body>
</html>
```

error.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Error</title>
</head>
<body>
<h2>Error</h2>
```

```
<p><a href="login.html">Go back to Login</a></p>
</body>
</html>
```

LoginServlet:

```
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

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

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        String UserName = request.getParameter("email");
        String password = request.getParameter("password");

        // Hard-coded correct values for login
        String correctUserName = "admin@example.com";
        if (UserName.equals(correctUserName) && password.equals(correctPassword)) {
            HttpSession session = request.getSession();
            session.setAttribute("user", UserName);
            response.sendRedirect("dashboard");
        } else {
            request.setAttribute("error", "Invalid email or password");
            request.getRequestDispatcher("error.jsp").forward(request, response);
        }
    }
}
```

DashboardServlet:

```
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

public class DashboardServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession(false);

        if (session != null && session.getAttribute("user") != null) {
            request.getRequestDispatcher("dashboard.html").forward(request, response);
        } else {
            response.sendRedirect("login.html");
        }
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession(false);

        if (session != null) {
            session.invalidate();
        }

        response.sendRedirect("login.html");
    }
}
```

LogoutServlet:

```
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

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

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession(false);
```

```
if (session != null) {  
    session.invalidate();  
}  
  
response.sendRedirect("login.html");  
}  
}
```

web.xml

```
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xmlns="http://java.sun.com/xml/ns/javaee"  
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee  
http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"  
id="WebApp_ID" version="3.0">  
    <display-name>ServletBasedWebApp</display-name>  
    <servlet>  
        <servlet-name>LoginServlet</servlet-name>  
        <servlet-class>LoginServlet</servlet-class>  
    </servlet>  
    <servlet>  
        <servlet-name>DashboardServlet</servlet-name>  
        <servlet-class>DashboardServlet</servlet-class>  
    </servlet>  
    <servlet>  
        <servlet-name>LogoutServlet</servlet-name>  
        <servlet-class>LogoutServlet</servlet-class>  
    </servlet>  
    <servlet-mapping>  
        <servlet-name>LoginServlet</servlet-name>  
        <url-pattern>/login</url-pattern>  
    </servlet-mapping>  
    <servlet-mapping>  
        <servlet-name>DashboardServlet</servlet-name>  
        <url-pattern>/dashboard</url-pattern>  
    </servlet-mapping>  
    <servlet-mapping>  
        <servlet-name>LogoutServlet</servlet-name>  
        <url-pattern>/logout</url-pattern>  
    </servlet-mapping>  
    <welcome-file-list>  
        <welcome-file>login.html</welcome-file>  
    </welcome-file-list>  
</web-app>
```