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	<b>EXP 6</b>	<b>Demonstrate Session Tracking using HttpSession</b>	
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## AIM:

To implement a simple login system using **HttpSession** to track user sessions in a Java Servlet.

## ALGORITHM:

**Step 1:** Create an HTML **Login Form** to take **username & password** as input.

**Step 2:** Develop a **Servlet** (`LoginServlet.java`) to handle login requests.

**Step 3:** Validate the user credentials and start an **HttpSession**.

**Step 4:** Redirect users to the **DashboardServlet**, where session details are displayed.

**Step 5:** Provide a **LogoutServlet** to end the session.

**Step 6:** Run the server and test session tracking.

## PROGRAM:

[index.html \(Login Page\)](#)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">   <title>Login
Page</title>
  <link rel="stylesheet" href="styles.css"> </head>
<body>
  <div class="container">
    <h2>Login System with Session Tracking</h2>
    <form action="LoginServlet" method="POST">
      <input type="text" name="username" placeholder="Enter Username" required>
      <input type="password" name="password" placeholder="Enter Password" required>
      <button type="submit">Login</button>
    </form>
  </div>
</body>
</html>
```

```

styles.css body { font-family: 'Poppins',
sans-serif; background: linear-gradient(to
right, #fbc2eb,
#a6c1ee); text-align: center; display:
flex; justify-content: center; align-
items: center; height: 100vh; margin:
0; } .container { background: #fff;
padding: 20px; border-radius: 15px;
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
width: 300px; } h2 { color: #5B86E5;
} input { width: 90%; padding:
10px; margin: 10px 0; border: 1px
solid #5B86E5; border-radius: 8px;
text-align: center; } button {
background: #36D1DC; color: white;
border: none; padding: 10px 15px;
border-radius: 8px; cursor: pointer;
transition: 0.3s; }
button:hover { background: #1e6e8c; }

```

### LoginServlet.java (Login & Session Creation) java

```

CopyEdit import java.io.IOException; import
java.io.PrintWriter; import
javax.servlet.ServletException; import
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet; import
javax.servlet.http.HttpServletRequest; import
javax.servlet.http.HttpServletResponse; import
javax.servlet.http.HttpSession;
@WebServlet("/LoginServlet")
public class LoginServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();

    String username = request.getParameter("username");
    String password = request.getParameter("password"); // Simple
validation (In real apps, use a database)

```

```

if(username.equals("admin") && password.equals("password")) {      HttpSession
session = request.getSession();      session.setAttribute("user",
username);      response.sendRedirect("DashboardServlet");
    // Redirect to Dashboard      } else
{
    out.println("<h3>Invalid Credentials! Try Again.</h3>");
request.getRequestDispatcher("index.html").include(request, response);
    }  } }

```

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### DashboardServlet.java (Session Tracking &

```

Dashboard) java CopyEdit import java.io.IOException;
import      java.io.PrintWriter;      import
javax.servlet.ServletException;      import
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet;

```

```

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

```

```

@WebServlet("/DashboardServlet")

```

```

public class DashboardServlet extends HttpServlet {

```

```

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
response.setContentType("text/html");      PrintWriter out =
response.getWriter();

```

```

        HttpSession session = request.getSession(false); // Get session without creating a new one
if (session != null && session.getAttribute("user") != null) {      String username =
(String) session.getAttribute("user");      out.println("<h2>Welcome, " + username +
"!</h2>");      out.println("<a href='LogoutServlet'>Logout</a>");
    } else {      out.println("<h3>Session expired! Please login again.</h3>");
request.getRequestDispatcher("index.html").include(request, response);
    }  } }

```

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### LogoutServlet.java (Session Invalidation)

```

import
java.io.IOException;      import java.io.PrintWriter;      import
javax.servlet.ServletException;      import
javax.servlet.annotation.WebServlet;      import
javax.servlet.http.HttpServlet;      import
javax.servlet.http.HttpServletRequest;      import

```

```

javax.servlet.http.HttpServletResponse;                                import
javax.servlet.http.HttpSession;    @WebServlet("/LogoutServlet")
public class LogoutServlet extends HttpServlet {    protected void
doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {    response.setContentType("text/html"); PrintWriter out
= response.getWriter();    HttpSession session = request.getSession(false);    if (session !=
null) { session.invalidate();
    // Destroy session } out.println("You have been logged out successfully.");
request.getRequestDispatcher("index.html").include(request, response); } }

```

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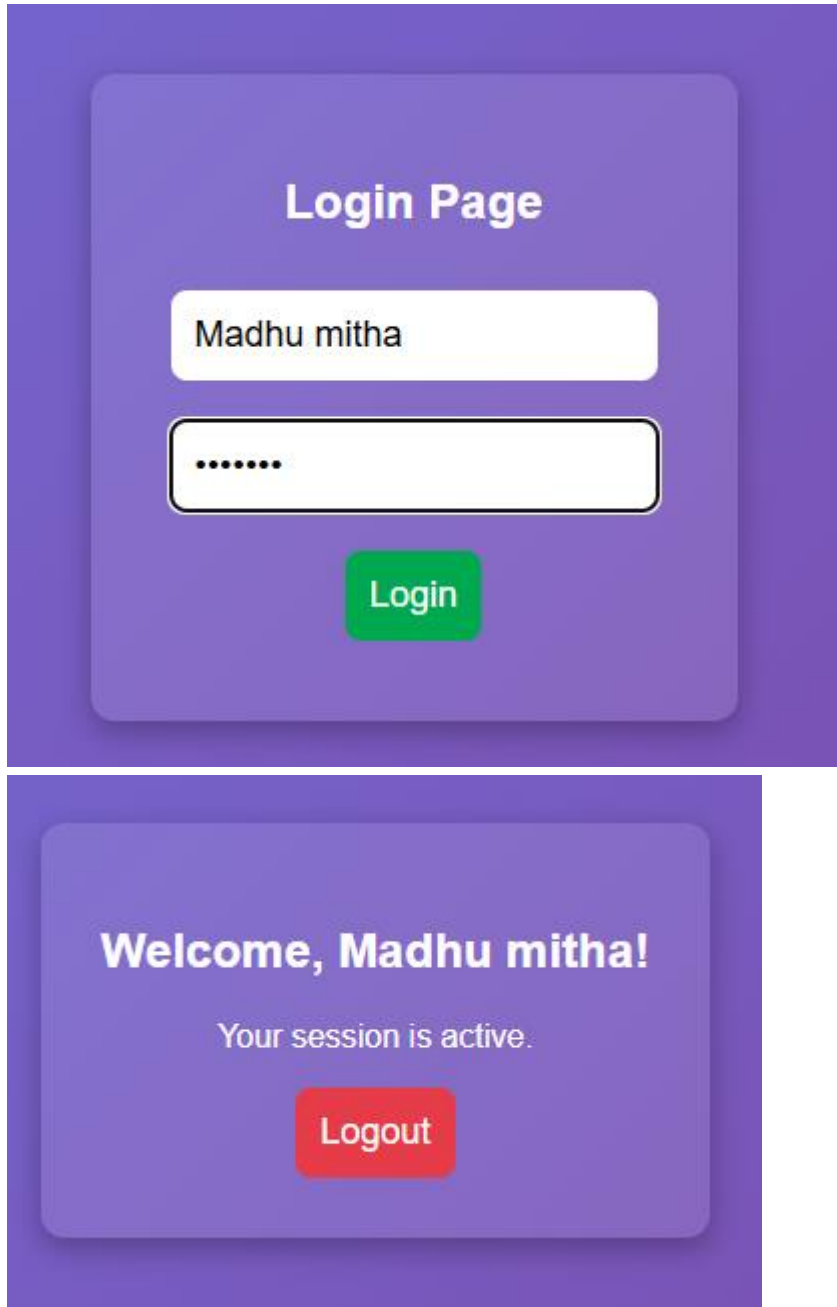
### web.xml (Servlet Configuration)

```

<web-app xmlns="http://java.sun.com/xml/ns/javaee" version="3.0">
<servlet>
    <servlet-name>LoginServlet</servlet-name>
    <servlet-class>LoginServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>LoginServlet</servlet-name>
    <url-pattern>/LoginServlet</url-pattern>
</servlet-mapping>
<servlet>
    <servlet-name>DashboardServlet</servlet-name>
    <servlet-class>DashboardServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>DashboardServlet</servlet-name>
    <url-pattern>/DashboardServlet</url-pattern>
</servlet-mapping>
<servlet>
    <servlet-name>LogoutServlet</servlet-name>
    <servlet-class>LogoutServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>LogoutServlet</servlet-name>
    <url-pattern>/LogoutServlet</url-pattern>
</servlet-mapping>
</web-app>

```

## OUTPUT:



## RESULT:

The Session Tracking using HttpSession executed successfully