**Phase 2: Practice Project:Assissted Practice: 1**

**5. Write a program to demonstrate a Servlet Filter.**

**Source Code:**

index.html:

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Filter Demo</title>

</head>

<body>

<p style="text-align: *center*; width: *100%*;">

<a href=*"dashboard?userid=alex"*>Account Dashboard (allow filter)</a><br>

<a href=*"profile?userid=alex"*>Account Profile (allow filter)</a><br>

<a href=*"dashboard"*>Account Dashboard (block filter)</a><br>

<a href=*"info"*>Info Page </a><br>

</p>

</body>

</html>

AccountProfile:

**import** java.io.IOException;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/AccountProfile")

**public** **class** AccountProfile **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** AccountProfile() {

**super**();

}

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.getWriter().write("I am in Account Profile after passing through LoginFilter");

}

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

doGet(request, response);

}

}

AccountDashboard:

**import** java.io.IOException;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/AccountDashboard")

**public** **class** AccountDashboard **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** AccountDashboard() {

**super**();

}

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.getWriter().write("I am in Account Dashboard after passing through LoginFilter");

}

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

doGet(request, response);

}

}

InfoPage:

**import** java.io.IOException;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/InfoPage")

**public** **class** InfoPage **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** InfoPage() {

**super**();

}

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.getWriter().write("I am in InfoPage");

}

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

doGet(request, response);

}

}

LoginFilter:

**import** java.io.IOException;

**import** javax.servlet.Filter;

**import** javax.servlet.FilterChain;

**import** javax.servlet.FilterConfig;

**import** javax.servlet.ServletException;

**import** javax.servlet.ServletRequest;

**import** javax.servlet.ServletResponse;

**import** javax.servlet.annotation.WebFilter;

@WebFilter("/LoginFilter")

**public** **class** LoginFilter **implements** Filter {

**public** LoginFilter() {

}

**public** **void** destroy() {

}

**public** **void** doFilter(ServletRequest request, ServletResponse response, FilterChain chain)

**throws** IOException, ServletException {

String userId = request.getParameter("userid");

**if** (userId != **null**) {

chain.doFilter(request, response);

}

}

**public** **void** init(FilterConfig fConfig) **throws** ServletException {

}

}

**Output:**









