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

**Index.html**

**<html>**

**<head>**

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

**<title>Filter Demo</title>**

**</head>**

**<body>**

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

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

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

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

**</body>**

**</html>**

**Account profile:**

**package practice;**

**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;**

**/\*\***

**\* Servlet implementation class AccountDashboard**

**\*/**

**@WebServlet("/AccountDashboard")**

**public class AccountDashboard extends HttpServlet {**

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

**/\*\***

**\* @see HttpServlet#HttpServlet()**

**\*/**

**public AccountDashboard() {**

**super();**

**// TODO Auto-generated constructor stub**

**}**

**/\*\***

**\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse**

**response)**

**\*/**

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

**response) throws ServletException, IOException {**

**// TODO Auto-generated method stub**

**response.getWriter().write("I am in Account Dashboard after passing**

**through LoginFilter");**

**}**

**/\*\***

**\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse**

**response)**

**\*/**

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

**response) throws ServletException, IOException {**

**// TODO Auto-generated method stub**

**doGet(request, response); }**

**}**

**Account dashboard:**

**package practice;**

**package practice;**

**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;**

**/\*\***

**\* Servlet implementation class AccountDashboard**

**\*/**

**@WebServlet("/AccountDashboard")**

**public class AccountDashboard extends HttpServlet {**

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

**/\*\***

**\* @see HttpServlet#HttpServlet()**

**\*/**

**public AccountDashboard() {**

**super();**

**// TODO Auto-generated constructor stub**

**}**

**/\*\***

**\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse**

**response)**

**\*/**

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

**response) throws ServletException, IOException {**

**// TODO Auto-generated method stub**

**response.getWriter().write("I am in Account Dashboard after passing**

**through LoginFilter");**

**}**

**/\*\***

**\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse**

**response)**

**\*/**

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

**response) throws ServletException, IOException {**

**// TODO Auto-generated method stub**

**doGet(request, response);**

**}**

**}**

**Info page:**

**package practice;**

**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;**

**/\*\***

**\* Servlet implementation class InfoPage**

**\*/**

**@WebServlet("/InfoPage")**

**public class InfoPage extends HttpServlet {**

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

**/\*\***

**\* @see HttpServlet#HttpServlet()**

**\*/**

**public InfoPage() {**

**super();**

**// TODO Auto-generated constructor stub**

**}**

**/\*\***

**\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse**

**response)**

**\*/**

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

**response) throws ServletException, IOException {**

**// TODO Auto-generated method stub**

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

**}**

**/\*\***

**\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse**

**response)**

**\*/**

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

**response) throws ServletException, IOException {**

**// TODO Auto-generated method stub**

**doGet(request, response);**

**}**

**}**

**Login filter:**

**package practice;**

**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;**

**/\*\***

**\* Servlet Filter implementation class LoginFilter**

**\*/**

**@WebFilter("/LoginFilter")**

**public class LoginFilter implements Filter {**

**/\*\***

**\* Default constructor.**

**\*/**

**public LoginFilter() {**

**// TODO Auto-generated constructor stub**

**}**

**/\*\*\* @see Filter#destroy()**

**\*/**

**public void destroy() {**

**// TODO Auto-generated method stub**

**}**

**/\*\***

**\* @see Filter#doFilter(ServletRequest, ServletResponse, FilterChain)**

**\*/**

**public void doFilter(ServletRequest request, ServletResponse response,**

**FilterChain chain) throws IOException, ServletException {**

**// TODO Auto-generated method stub**

**// place your code here**

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

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

**chain.doFilter(request, response);**

**}**

**}**

**/\*\***

**\* @see Filter#init(FilterConfig)**

**\*/**

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

**// TODO Auto-generated method stub**

**}**

**}**