**Servlet Filters**

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Filter Demo</title>

</head>

<body>

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

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

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

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

</body>

</html>

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 AccountProfile

\*/

@WebServlet("/AccountProfile")

public class AccountProfile extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public AccountProfile() {

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 Profile 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);

}

}

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);

}

}

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);

}

}

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

}

}

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

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_4\_0.xsd" id="WebApp\_ID" version="4.0">

<display-name>FilterDemo</display-name>

<welcome-file-list>

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

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

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

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

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

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

</welcome-file-list>

<filter>

<filter-name>loginFilter</filter-name>

<filter-class>LoginFilter</filter-class>

</filter>

<filter-mapping>

<filter-name>loginFilter</filter-name>

<url-pattern>/dashboard</url-pattern>

<url-pattern>/profile</url-pattern>

</filter-mapping>

<servlet>

<servlet-name>AccountDashboard</servlet-name>

<servlet-class>AccountDashboard</servlet-class>

</servlet>

<servlet>

<servlet-name>AccountProfile</servlet-name>

<servlet-class>AccountProfile</servlet-class>

</servlet>

<servlet>

<servlet-name>InfoPage</servlet-name>

<servlet-class>InfoPage</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>AccountDashboard</servlet-name>

<url-pattern>/dashboard</url-pattern>

</servlet-mapping>

<servlet-mapping>

<servlet-name>AccountProfile</servlet-name>

<url-pattern>/profile</url-pattern>

</servlet-mapping>

<servlet-mapping>

<servlet-name>InfoPage</servlet-name>

<url-pattern>/info</url-pattern>

</servlet-mapping>

</web-app>