**Practice project assisted**

Create an HTML page to send different requests via hyperlinks

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</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>

Creating an AccountProfile servlet

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().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* @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);

}

}

Creating an AccountDashboard servlet

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().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* @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);

}

}

Creating an InfoPage servlet

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().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* @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);

}

}

Creating a LoginFilter filter

**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

}

Configuring web.xml

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

<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>FilterDemo</display-name>

<welcome-file-list>

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

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

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

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

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

<welcome-file>default.htm</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>