HelloServlet.java

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class HelloServlet

\*/

public class HelloServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public HelloServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#service(HttpServletRequest request, HttpServletResponse response)

\*/

protected void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

PrintWriter pw = response.getWriter();

response.setContentType("text/html");

System.out.println("2");

pw.println("Hello....");

System.out.println("4");

}

}

LogFilter.java

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;

/\*\*

\* Servlet Filter implementation class LogFilter

\*/

public class LogFilter implements Filter {

/\*\*

\* Default constructor.

\*/

public LogFilter() {

// 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

// pass the request along the filter chain

System.out.println("1");

chain.doFilter(request, response);

System.out.println("3");

}

/\*\*

\* @see Filter#init(FilterConfig)

\*/

public void init(FilterConfig fConfig) throws ServletException {

// TODO Auto-generated method stub

}

}

SessionFilter.java

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;

/\*\*

\* Servlet Filter implementation class SessionFilter

\*/

public class SessionFilter implements Filter {

/\*\*

\* Default constructor.

\*/

public SessionFilter() {

// 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

// pass the request along the filter chain

System.out.println(5);

chain.doFilter(request, response);

System.out.println(6);

}

/\*\*

\* @see Filter#init(FilterConfig)

\*/

public void init(FilterConfig fConfig) throws ServletException {

// TODO Auto-generated method stub

}

}

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\_2\_5.xsd"* id=*"WebApp\_ID"* version=*"2.5"*>

<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>

<display-name>SessionFilter</display-name>

<filter-name>SessionFilter</filter-name>

<filter-class>SessionFilter</filter-class>

</filter>

<filter-mapping>

<filter-name>SessionFilter</filter-name>

<url-pattern>/\*</url-pattern>

</filter-mapping>

<filter>

<display-name>LogFilter</display-name>

<filter-name>LogFilter</filter-name>

<filter-class>LogFilter</filter-class>

</filter>

<filter-mapping>

<filter-name>LogFilter</filter-name>

<url-pattern>/\*</url-pattern>

</filter-mapping>

<servlet>

<description></description>

<display-name>HelloServlet</display-name>

<servlet-name>HelloServlet</servlet-name>

<servlet-class>HelloServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>HelloServlet</servlet-name>

<url-pattern>/hello</url-pattern>

</servlet-mapping>

</web-app>

Welcome.html

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

Hi........

</body>

</html>

What is Listener?

How to create a Listener in Servlets?

1. Define the listener class by implementing the required listener interfaces
2. Provide the listener information in web.xml
3. How to configure the listener in web.xml?

<listener>

<listener-class>

com.sssit.listenersd.listeners.RequestReponseListener

</listener-class>

</listener>

How to define a listener class?

Step 1: implement our java class from the required listener interfaces

Step 2: override all the methods defined in the implemented interfaces.

|  |  |
| --- | --- |
| **Listener Class** | **Different Methods available in Listener** |
| ServletRequestListener, | public void requestInitialized(ServletRequestEvent arg0) |
| public void requestDestroyed(ServletRequestEvent arg0) |
| Serv  letRequestAttributeListener | public void attributeAdded(ServletRequestAttributeEvent arg0) |
| public void attributeRemoved(ServletRequestAttributeEvent arg0) |
| public void attributeReplaced(ServletRequestAttributeEvent arg0) |
| HttpSessionListener, | public void sessionCreated(HttpSessionEvent arg0) |
| public void sessionDestroyed(HttpSessionEvent arg0) |
| HttpSessionAttributeListener | public void attributeReplaced(HttpSessionBindingEvent arg0) |
| public void attributeAdded(HttpSessionBindingEvent arg0) |
| public void attributeRemoved(HttpSessionBindingEvent arg0) |
| ServletContextAttributeListener, | public void attributeRemoved(ServletContextAttributeEvent arg0) |
| public void attributeAdded(ServletContextAttributeEvent arg0) |
| public void attributeReplaced(ServletContextAttributeEvent arg0) |
| ServletContextListener, | public void contextInitialized(ServletContextEvent arg0) |
| public void contextDestroyed(ServletContextEvent arg0) |