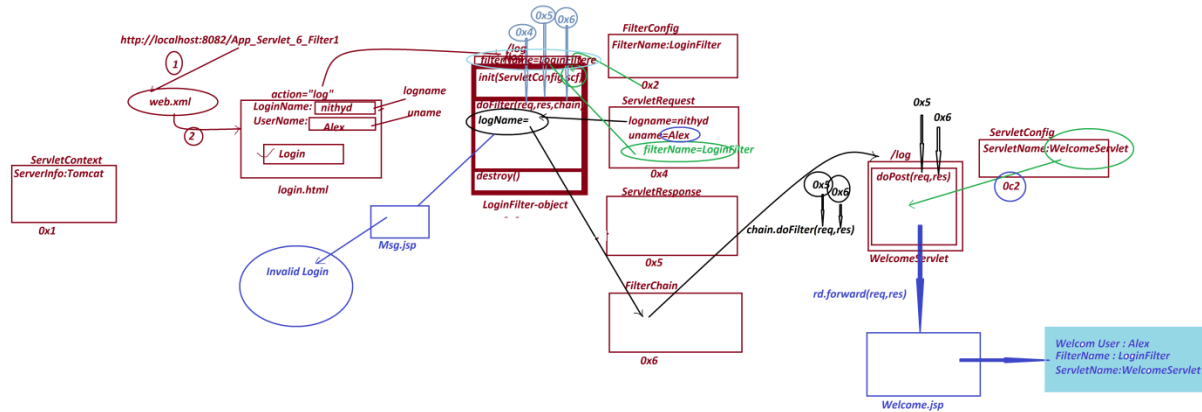


Dt : 14/11/2024(Day-40)

Ex:(Demonstrating Filter)

Layout:



login.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="Log" method="post">
LoginName:<input type="text" name="Logname"><br>
UserName:<input type="text" name="uname"><br>
<input type="submit" name="Login">
</form>
</body>
</html>
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
  <welcome-file-list>
    <welcome-file>Login.html</welcome-file>
  </welcome-file-list>
</web-app>
```

**LoginFilter.java**

**package test;**

**import java.io.\*;**

**import jakarta.servlet.\*;**

**import jakarta.servlet.annotation.\*;**

**@WebFilter("/log")**

**public class LoginFilter implements Filter**

**{**

**public String filterName = null;**

**@Override**

**public void init(FilterConfig fcf)throws ServletException**

**{**

**filterName = fcf.getFilterName();**

**}**

**@Override**

**public void doFilter(ServletRequest req,ServletResponse res,FilterChain chain)throws**

**ServletException,IOException**

**{**

**String logName = req.getParameter("logname");**

**if(logName.equals("nithyd")) {**

**req.setAttribute("filterName", filterName);**

**chain.doFilter(req, res);**

**}else {**

**req.setAttribute("msg","Invalid login process...<br>");**

**req.getRequestDispatcher("Msg.jsp").forward(req, res);**

```

    }

    }

    @Override

    public void destroy()

    {

        //NoCode

    }

}

```

*WelcomeServlet.java*

```

package test;

import java.io.*;

import jakarta.servlet.*;

import jakarta.servlet.http.*;

import jakarta.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/log")

public class WelcomeServlet extends HttpServlet

{

    @Override

    protected void doPost(HttpServletRequest req,HttpServletResponse res)throws ServletException,

    IOException

    {

        ServletConfig scf = this.getServletConfig();

        String servletName = scf.getServletName();

        req.setAttribute("servletName", servletName);
    }
}

```

```

        req.getRequestDispatcher("Welcome.jsp").forward(req, res);
    }
}

```

#### Welcome.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
String uName = request.getParameter("uname");
String filterName = (String)request.getAttribute("filterName");
String servletName = (String)request.getAttribute("servletName");
out.println("Welcome User:"+uName+"<br>");
out.println("FilterName:"+filterName+"<br>");
out.println("ServletName:"+servletName+"<br>");
%>
</body>
</html>

```

#### Msg.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
String msg = (String)request.getAttribute("msg");
out.println(msg);
%>
<%@include file="login.html" %>
</body>
</html>

```

=====

**\*imp**

**Listeners in Servlet programming:**

**=>The program which is executed background to servlet-objects is known as**

**"listener"**

**=>In Servlet-Programming the listeners can be added to the following Objects:**

**1.ServletContext Object**

**2.ServletRequest Object**

**3.HttpSession Object**

**1.ServletContext Object:**

**=>The following are the listeners added to ServletContext-Object:**

**(a)ServletContextListener**

**Methods:**

**public void contextInitialized(jakarta.servlet.ServletContextEvent);**

**public void contextDestroyed(jakarta.servlet.ServletContextEvent);**

**(b)ServletContextAttributeListener**

**Methods:**

**public void attributeAdded(jakarta.servlet.ServletContextAttributeEvent);**

**public void attributeRemoved(jakarta.servlet.ServletContextAttributeEvent);**

**public void attributeReplaced(jakarta.servlet.ServletContextAttributeEvent);**

**2.ServletRequest Object:**

**=>The following are the listeners added to ServletRequest Object:**

**(a)ServletRequestListener**

**Methods:**

*public void requestDestroyed(jakarta.servlet.ServletRequestEvent);*

*public void requestInitialized(jakarta.servlet.ServletRequestEvent);*

*(b)ServletRequestAttributeListener*

*public void attributeAdded(jakarta.servlet.ServletRequestAttributeEvent);*

*public void attributeRemoved(jakarta.servlet.ServletRequestAttributeEvent);*

*public void attributeReplaced(jakarta.servlet.ServletRequestAttributeEvent);*

### **3.HttpSession Object:**

**=>The following are the listeners added to HttpSession Object:**

*(a)HttpSessionListener*

*Methods:*

*public void sessionCreated(jakarta.servlet.http.HttpSessionEvent);*

*public void sessionDestroyed(jakarta.servlet.http.HttpSessionEvent);*

*(b)HttpSessionAttributeListener*

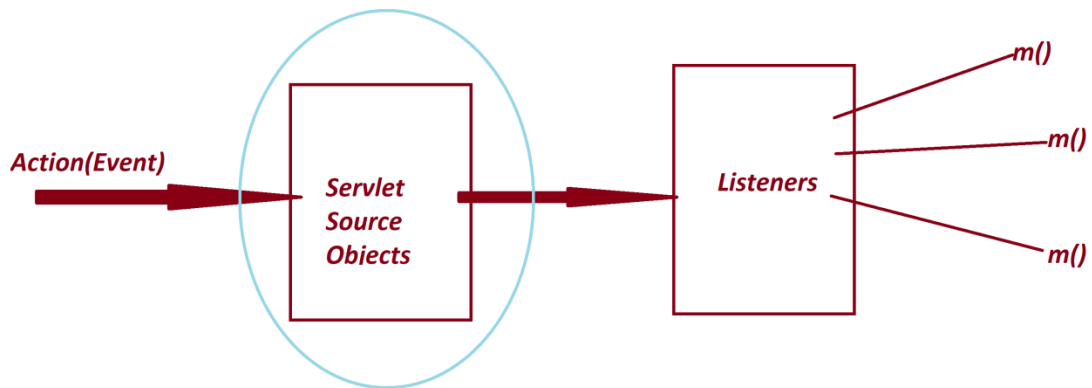
*Methods:*

*public void attributeAdded(jakarta.servlet.http.HttpSessionBindingEvent);*

*public void attributeRemoved(jakarta.servlet.http.HttpSessionBindingEvent);*

*public void attributeReplaced(jakarta.servlet.http.HttpSessionBindingEvent);*

---



Venkatesh Maipati