

5. Write a program to demonstrate a Servlet Filter

DashboardServlet.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;

import org.apache.catalina.connector.Response;

public class DashboardServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
        // TODO Auto-generated method stub

        PrintWriter out= resp.getWriter();
        out.print("<h1>Welcome user to the Dashboard<h1>");
    }

    @Override
    protected void doPost(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
        // TODO Auto-generated method stub

        doGet(req, resp);
    }

}
```

Filter1.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;

public class Filter1 implements Filter {
```

```

        public void destroy() {

        }

        public void doFilter(ServletRequest req, ServletResponse
res, FilterChain chain ) throws IOException, ServletException
        {
            //method
            String name=req.getParameter("username");
            if(name!=null)
                chain.doFilter(req, res);
            else

                res.getWriter().print("<h1>User is not Valid</h1>");

        }

        public void init (FilterConfig fConfig) throws ServletException
        {

        }

    }

```

InfoServlet.java

```

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.apache.catalina.connector.Response;

@WebServlet("/info")
public class InfoServlet extends HttpServlet {

```

```

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
        // TODO Auto-generated method stub

        PrintWriter out= resp.getWriter();
        out.print("<h1>Welcome to Information Servlet</h1>");
    }

    @Override
    protected void doPost(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
        // TODO Auto-generated method stub

        doGet(req, resp);
    }

```

ProfileServlet.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;

import org.apache.catalina.connector.Response;

public class ProfileServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
        // TODO Auto-generated method stub

        PrintWriter out= resp.getWriter();
        out.print("<h1>Welcome to Profile Servlet</h1>");
    }

    @Override

```

```

        protected void doPost(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
            // TODO Auto-generated method stub

            doGet(req, resp);
        }
    }
}

```

index.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Servlet filter</title>
</head>
<body>

<h1>Dashboard</h1>
<a href="dashboard?username=arul">Access Dashboard With Para</a>
<br><br>
<a href="dashboard">Access Dashboard Without Para</a>
<br><br>

<h1>Profile</h1>

<a href="profile?username=arul">Access Profile With Para</a>
<br><br>
<a href="profile">Access Profile Without Para</a>
<br><br>

<h1>Access Information</h1>

<a href="info">Access Info</a>

</body>
</html>

```

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.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>
  <servlet>
    <description></description>
    <display-name>DashboardServlet</display-name>
    <servlet-name>DashboardServlet</servlet-name>
    <servlet-class>DashboardServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>DashboardServlet</servlet-name>
    <url-pattern>/dashboard</url-pattern>
  </servlet-mapping>

  <servlet>
    <description></description>
    <display-name>InfoServlet</display-name>
    <servlet-name>InfoServlet</servlet-name>
    <servlet-class>InfoServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>InfoServlet</servlet-name>
    <url-pattern>/info</url-pattern>
  </servlet-mapping>
  <servlet>
    <description></description>
    <display-name>ProfileServlet</display-name>
    <servlet-name>ProfileServlet</servlet-name>
    <servlet-class>ProfileServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>ProfileServlet</servlet-name>
    <url-pattern>/profile</url-pattern>
  </servlet-mapping>

  <filter>
    <filter-name>Filter1</filter-name>
```

```
<filter-class>Filter1</filter-class>
</filter>

<filter-mapping>
  <filter-name>Filter1</filter-name>
  <url-pattern>/profile</url-pattern>
  <url-pattern>/dashboard</url-pattern>
</filter-mapping>
</web-app>
```

OUTPUT





