

## 5. Write a program to demonstrate a Servletfilter:

### Index.html:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
    <a href="AccountDasboard?userid=admin">LoginFilter (allow filter)</a><br>
    <a href="AccountProfile?userid=admin">Account Profile (allow filter)</a><br>
    <a href="AccountDashboard">Account Dashboard (block filter)</a><br>
    <a href="info">Info Page </a><br>

</body>
</html>
```

### AccountProfile:

```
import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

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);
```

```
}
```

```
}
```

## InfoPage:

```
import java.io.IOException;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
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);

    }

}

```

## LoginFilter:

```

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
    }
}

```

## 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>filterdem</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>AccountProfile</display-name>
        <servlet-name>AccountProfile</servlet-name>
        <servlet-class>AccountProfile</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>AccountProfile</servlet-name>
        <url-pattern>/AccountProfile</url-pattern>
    </servlet-mapping>
    <servlet>
        <description></description>
        <display-name>AccountDashboard</display-name>
        <servlet-name>AccountDashboard</servlet-name>
        <servlet-class>AccountDashboard</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>AccountDashboard</servlet-name>
        <url-pattern>/AccountDashboard</url-pattern>
    </servlet-mapping>

```

```

</servlet-mapping>
<servlet>
  <description></description>
  <display-name>InfoPage</display-name>
  <servlet-name>InfoPage</servlet-name>
  <servlet-class>InfoPage</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>InfoPage</servlet-name>
  <url-pattern>/InfoPage</url-pattern>
</servlet-mapping>
<servlet>
  <description></description>
  <display-name>LoginFilter</display-name>
  <servlet-name>LoginFilter</servlet-name>
  <servlet-class>LoginFilter</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>LoginFilter</servlet-name>
  <url-pattern>/LoginFilter</url-pattern>
</servlet-mapping>
</web-app>

```

## Outputs:



