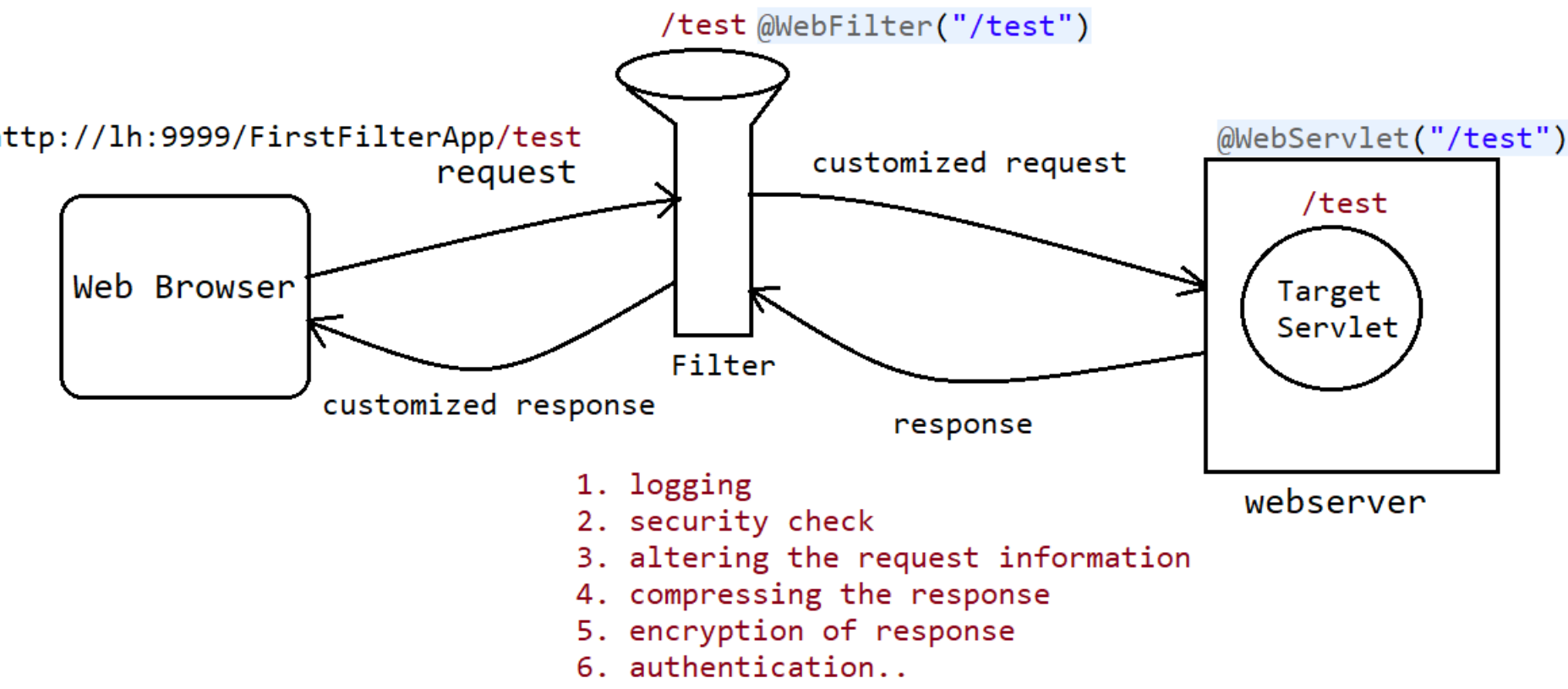


Filter

It can be used for **PreProcessing** the request and **Postprocessing** of request before they reach the target resource of the webapplication.



Note:

Whenever we are sending the request to Target Servlet, container will check whether any filter is configured for this servlet or not. if filter is configured then container will forward the request to filter instead of servlet

```
void doFilter(req,resp,chain) throws SE,IOE
```

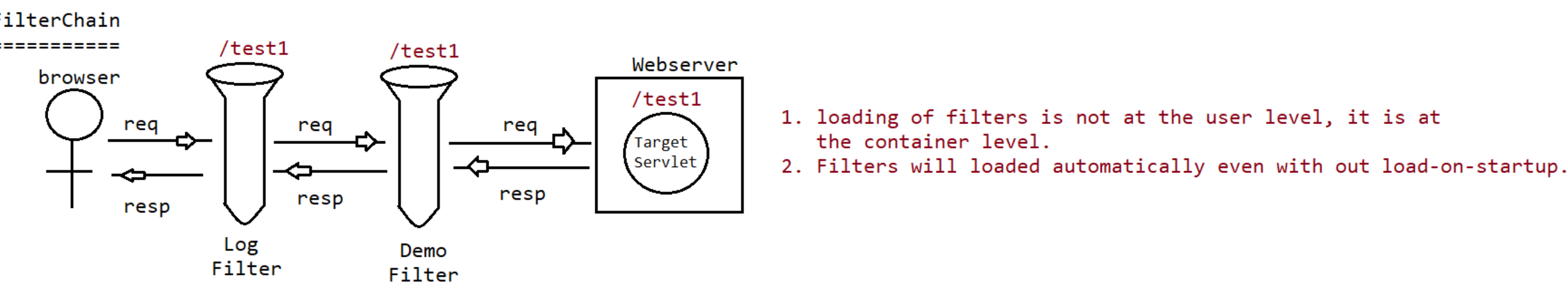
After executing the above logic, filter forwards the request to TargetServlet. After processing the request by TargetServlet the response will be forwarded to the Filter instead of browser. After executing the Filter logic, Filter forwards the total response to the browser.

`http://localhost:9999/FirstFilterApp/test`

**This line is added by Demo Filter before processing the request...**

**This is the response from Target Servlet**

**This line is added by Demo Filter after processing the request...**



Order of Execution of Filters in XML

1. identify all the filters which are configured in url-pattern & execute all these filters from top to bottom
2. identify all the filters which are configured according to servlet-name and execute all these filters from top to bottom

Order of Execution of Filters w.r.t Annotations

1. Filters are executed based on the Alphabetical names of the Filter names.

url pattern: `http://localhost:9999/FilterChaingApp/test1`

**This line is added by DemoFilter before processing the request....**

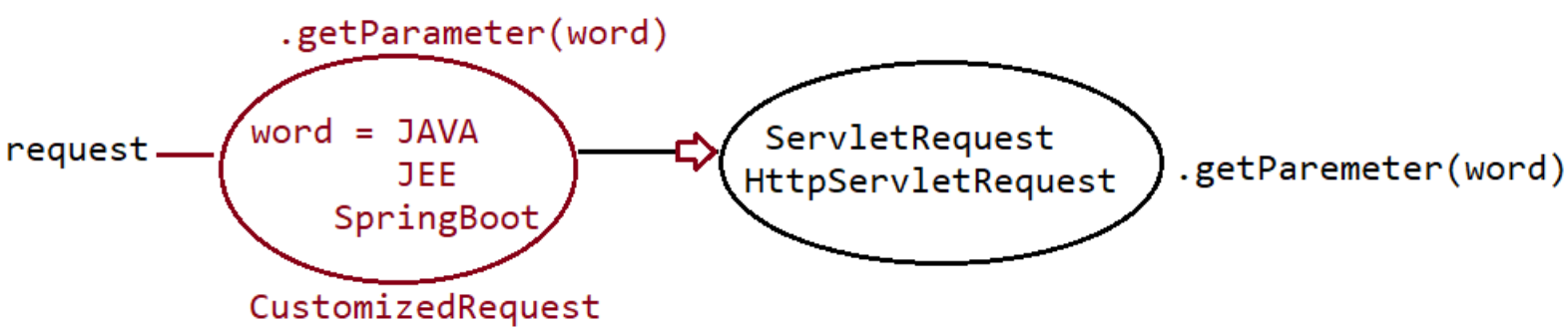
**This line is added by the Log filter before processing the request**

**This is the response from Target Servlet...**

**This line is added by Log filter after processing the request....**

**This line is added by DemoFilter after processing the request....**

HttpServletRequestWRapper



Listeners

1. Event

index.html

name

gender

Something which happens on a webpage is called as "Event". It can be mouseclick, typing some text inside textbox, hovering on the page, .....

1. RequestListener
2. ContextListener
3. SessionListener
4. ServletRequestAttributeListener

Event =====> class  
Listeners =====> Interface

request =====> to particular servlet  
SRE any servlet u send request object should be created.

ServletRegeustListener

Do we need mapping?  
Ans. no.

requestInitialized => At the time of request Object creation  
requestDestory => At the time of request object destruction