/test

Request CustomizeRequest

/test

TargetServlet

WebBrowser

Customized Response Response

Filter

WebServer

1. Loading
2. Instantiation
3. Initialization
4. RequestProcessing
5. DeInstantiation

PreProcessing Activity
Authentication
Security
Encoding and Decoding

Filter Life Cycle Actions

| Filter Loading | static{} |

| Filter Instantiation | constructor |

| Filter Initialization | init(FilterConfig config) |

| Filter Processing | doFilter(request, response, FilterChain chain) |

| Filter De-Instantiation | destroy() |
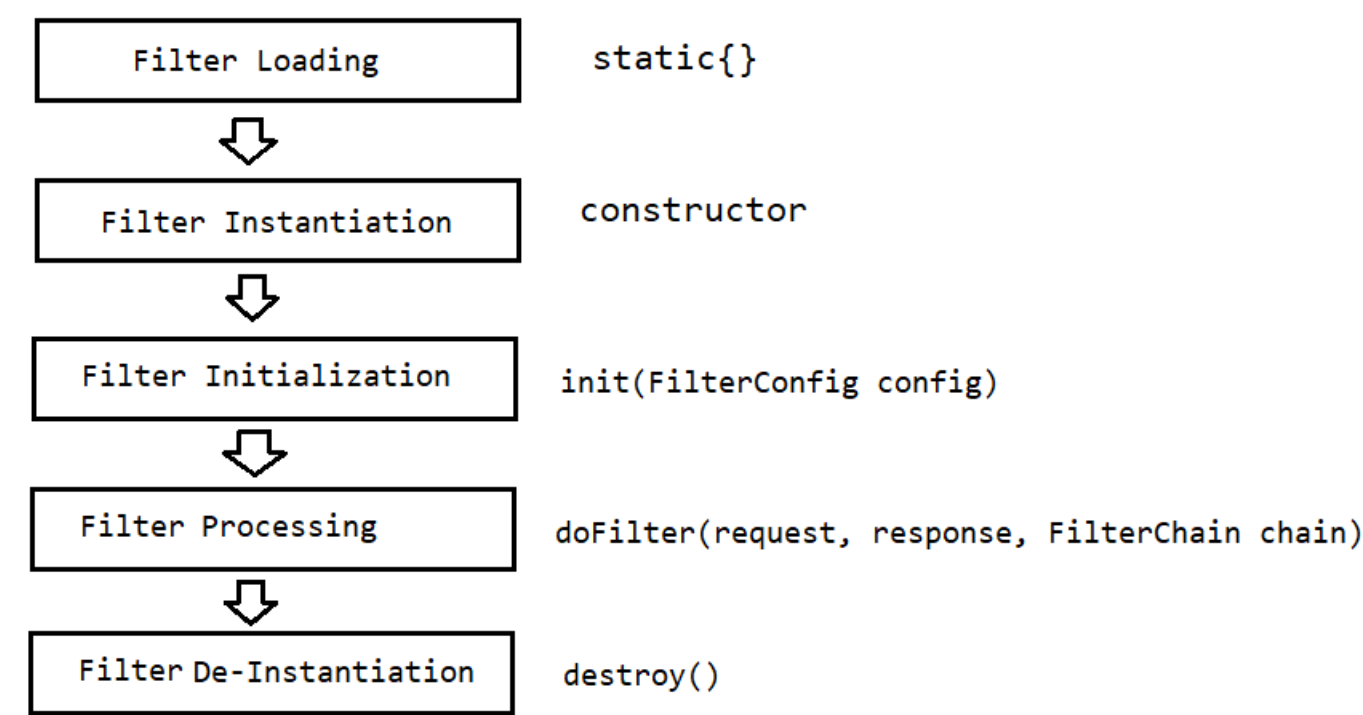
For filters we don't need to give <load-on-startup> value, It is autoloaded, instantiated and initalized...

index.html

EID
ENAME
EAGE
EMAIL
EMOBILE
submit

Validation Filter

(errorpart)

TargetServlet

webapp

Database

WebServer
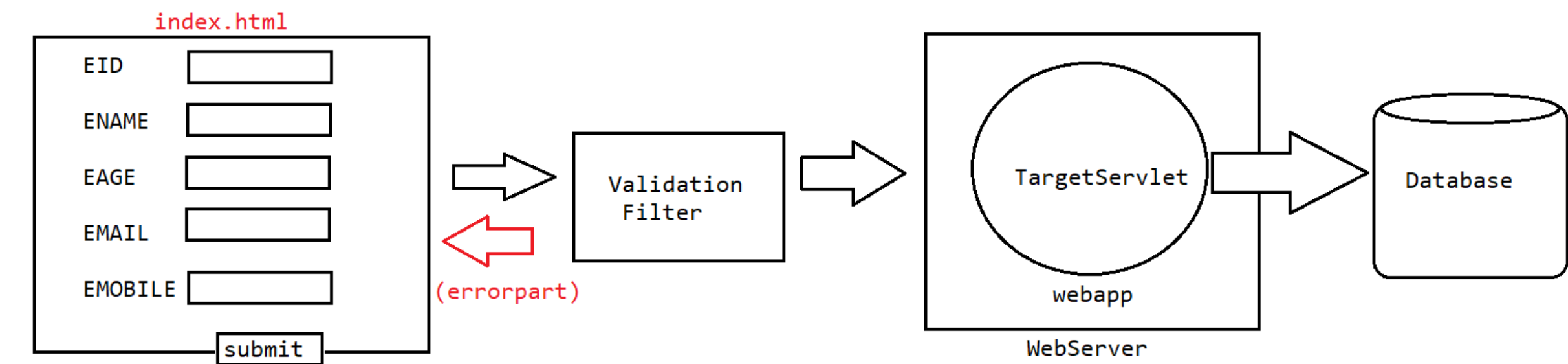
```
eid is empty     => EmployeeId is required
ename is empty   => EmployeeName is required
eage  is empty   => EmployeeAge is required
email is empty   => EmployeeEmail is requried
mobile is empty  => EmployeeMobile is required
```
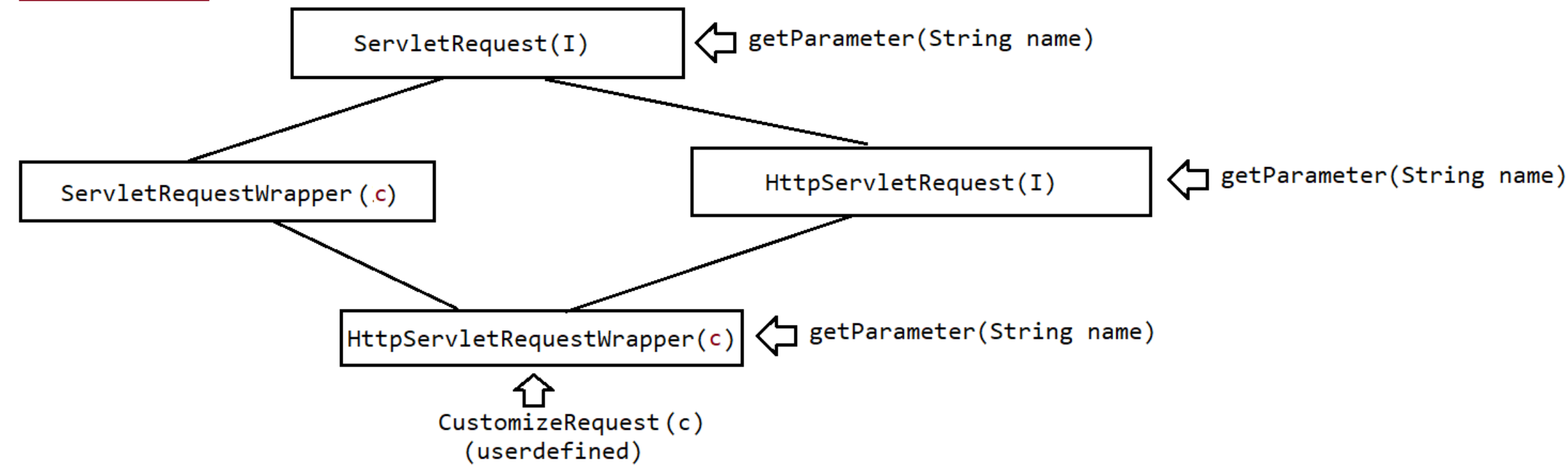First level checking

```
id    => starts with iNeuron-
eage  => with in 20 to 30
email => end with @ineuron.ai
mobile => 91-XXXXXXXX
```
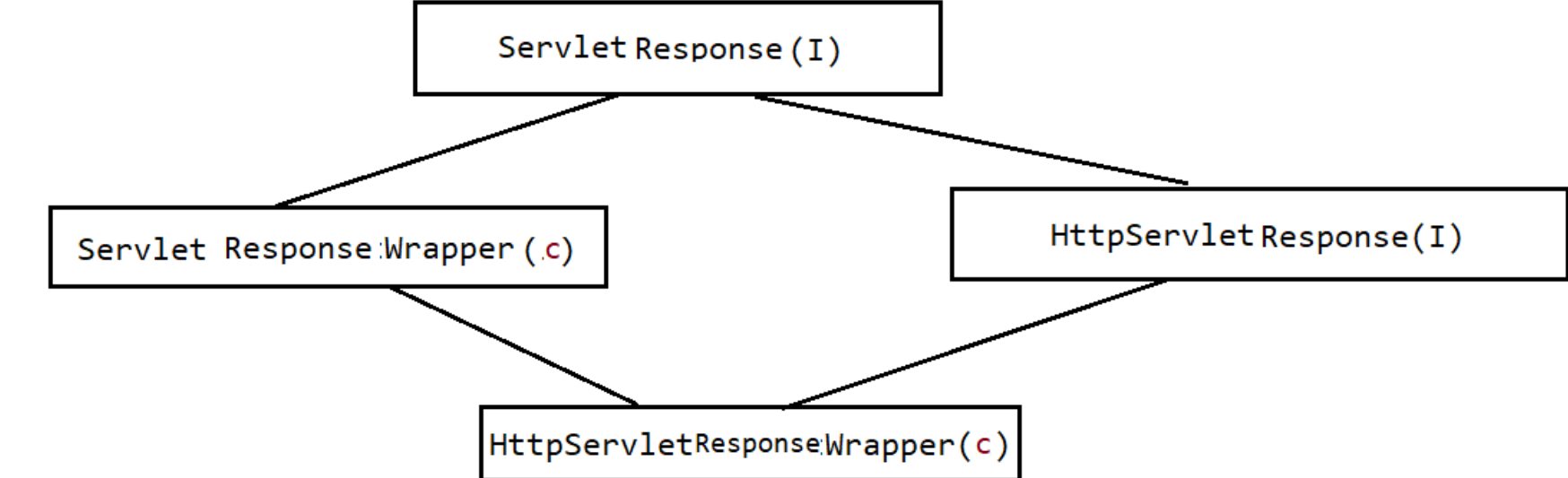Second level checking

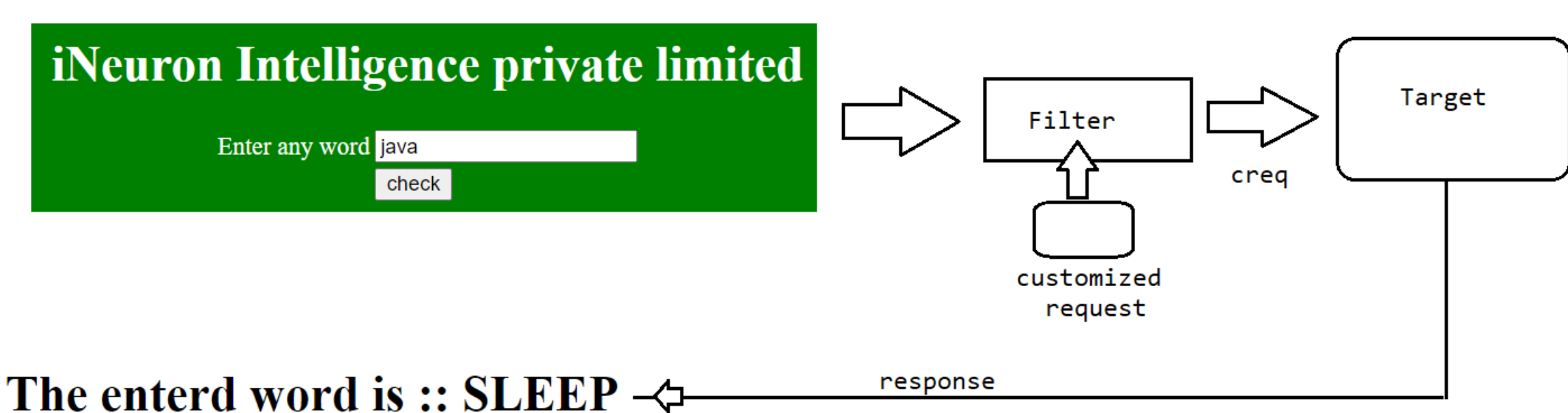In which order filter gets executed in FilterChaining?

RequestWrapper

ServletRequest(I) <= getParameter(String name)

ServletRequestWrapper(c) HttpServletRequest(I) <= getParameter(String name)

HttpServletRequestWrapper(c) <= getParameter(String name)

CustomizeRequest(c)
(userdefined)

ResponseWrapper

Servlet Response(I)

Servlet Response Wrapper(c) HttpServlet Response(I)

HttpServletResponseWrapper(c)

HttpServletRequestWrapper

iNeuron Intelligence private limited

Enter any word Java
check

Filter Target

creq

customized request

The enterd word is :: SLEEP <=

response

HttpServletResponseWrapper

iNeuron Intelligence private limited

Enter any word sachin
reverse

output

The reverse word is nihcas