

一.Filter:过滤器,在浏览器发起请求到Servlet之前,可以对请求进行过滤处理

创建Filter

1.实现Filter

2.重写doFilter方法

3.配置过滤器的规则

过滤规则:

1.通配符:/*,匹配所有请求

2./user/*:路径匹配,匹配/user/开头的请求

3.*.jsp:后缀匹配,匹配以.jsp结尾的请求

4./login:精确匹配,匹配/login这个请求

注:路径匹配和后缀匹配不能同时出现

优先级:精确匹配 > 路径匹配 > 通配符 > 后缀匹配

Filter的生命周期(从创建到销毁的过程):

1.服务器启动后,创建Filter的对象,调用init方法

2.当请求满足过滤器的规则时,进入都Filter

3.当服务器停止前,销毁Filter对象,执行destroy方法

```
1 @WebFilter(filterName = "LoginFilter",urlPatterns = {"/student/*","/user/  
  modify"})  
2 public class LoginFilter implements Filter {  
3     public void destroy() {  
4         System.out.println("LoginFilter销毁");  
5     }  
6 }
```

```

7  public void doFilter(ServletRequest req, ServletResponse resp, FilterChain
in chain) throws ServletException, IOException {
8
9  //转成http
10  HttpServletRequest request= (HttpServletRequest) req;
11  HttpServletResponse response= (HttpServletResponse) resp;
12  String path = request.getRequestURI();
13  System.out.println(path+"过滤处理中");
14  HttpSession session = request.getSession();
15  Object user = session.getAttribute("user");
16  if (user!=null){
17  //放行
18  chain.doFilter(req, resp);
19  }else {
20  //过滤掉
21  request.getRequestDispatcher("/user/toLogin").forward(request,response);
22  return;
23  }
24
25
26  }
27
28  public void init(FilterConfig config) throws ServletException {
29
30  System.out.println("LoginFilter创建成功!");
31  }
32
33  }

```

1 /*Servlet生命周期:

2 1.服务器启动后,创建servlet对象,调用init方法,

3 2.当收到请求时,调用service方法

4 3.再根据请求方式,调用对应的doGet或doPost

5 4,当服务器停止时,销毁servlet对象,调用destroy方法

二.监听器

1.创建实现接口(ServletContextListener,

HttpSessionListener, HttpSessionAttributeListener, 选其一个)的类

2.重写接口的方法

```
1 @WebListener()
2 public class CountListener implements ServletContextListener,
3     HttpSessionListener, HttpSessionAttributeListener {
4
5     //记录在线人数
6     private int count;
7
8     // Public constructor is required by servlet spec
9     public CountListener() {
10     }
11
12     // -----
13     // ServletContextListener implementation
14     // -----
15     public void contextInitialized(ServletContextEvent sce) {
16         /* This method is called when the servlet context is
17            initialized(when the Web application is deployed).
18            You can initialize servlet context related data here.
19         */
20     }
21
22     public void contextDestroyed(ServletContextEvent sce) {
23         /* This method is invoked when the Servlet Context
24            (the Web application) is undeployed or
25            Application Server shuts down.
26         */
27     }
28
29     // -----
30     // HttpSessionListener implementation
31     // -----
32     public void sessionCreated(HttpSessionEvent se) {
33         /* Session is created. */
34         count++;
35         ServletContext application = se.getSession().getServletContext();
```

```

36 application.setAttribute("count",count);
37 }
38
39 public void sessionDestroyed(HttpSessionEvent se) {
40     /* Session is destroyed. */
41     count--;
42     ServletContext application = se.getSession().getServletContext();
43     application.setAttribute("count",count);
44 }
45
46 // -----
47 // HttpSessionAttributeListener implementation
48 // -----
49
50 public void attributeAdded(HttpSessionBindingEvent sbe) {
51     /* This method is called when an attribute
52     is added to a session.
53     */
54 }
55
56 public void attributeRemoved(HttpSessionBindingEvent sbe) {
57     /* This method is called when an attribute
58     is removed from a session.
59     */
60 }
61
62 public void attributeReplaced(HttpSessionBindingEvent sbe) {
63     /* This method is invoked when an attribute
64     is replaced in a session.
65     */
66 }
67 }

```

```

1 <h2>当前在线人数${applicationScope.count}</h2>

```

```

2

```

```

3 <a href="${pageContext.request.contextPath}/user/logout">注销</a>

```