

RESTful API的拦截：记录所有的服务的处理时间

1. 过滤器：可以获取到http请求的信息，不能获取真正处理请求方法的信息

```
1  /**
2   * 记录所有的服务的处理时间
3   * @author 江小明
4   *
5   */
6  //@Component 注释掉了就成了一个普通的类，相当于是一个第三方的过滤器，加到过滤器链上
7  public class TimeFilter implements Filter {
8
9      @Override
10     public void init(FilterConfig filterConfig) throws ServletException {
11         System.out.println("time filter init");
12     }
13
14     @Override
15     public void doFilter(ServletRequest request, ServletResponse response,
16         FilterChain chain)
17         throws IOException, ServletException {
18         System.out.println("time filter start");
19         long start = new Date().getTime();
20         //调用后续的过滤器
21         chain.doFilter(request, response);
22         System.out.println("time filter 耗时:" + (new Date().getTime() - start));
23         System.out.println("time filter finish");
24     }
25
26     @Override
27     public void destroy() {
28         System.out.println("time filter destroy");
29     }
30 }

1  @Configuration
2  public class WebConfig {
3
4      //将timeFilter加到过滤器链上 和在timeFilter上加Component注解是一样的
5      @Bean
6      public FilterRegistrationBean timeFilter() {
```

```

7  FilterRegistrationBean registrationBean = new FilterRegistrationBean();
8
9  TimeFilter timeFilter = new TimeFilter();
10 registrationBean.setFilter(timeFilter);
11 List<String> url = new ArrayList<String>();//配置这个过滤器在哪些url下起作用
12 url.add("/*");//所有路径
13 registrationBean.setUrlPatterns(url);
14 return registrationBean;
15 }
16 }

```

2. 拦截器：可以获取到http请求的信息，也可以获取真正处理请求方法的信息，但是不能获取到那个方法的值

```

1  /**
2   * 时间拦截器
3   * @author 江小明
4   *
5   */
6  @Component //这个注解并不能使这个拦截器起作用，必须还要配置
7  public class TimeInterceptor implements HandlerInterceptor {
8
9      /**
10       * controller方法之前
11       */
12      @Override
13      public boolean preHandle(HttpServletRequest request, HttpServletResponse response, Object handler)
14          throws Exception {
15          System.out.println("preHandle");
16
17          System.out.println(((HandlerMethod)handler).getBean().getClass().getName());
18          System.out.println(((HandlerMethod)handler).getMethod().getName());
19
20          request.setAttribute("startTime", new Date().getTime());
21          return true; //是否调用controller里的方法
22      }
23      /**
24       * 执行controller方法时被调用，有异常则不调用

```

```

25  */
26  @Override
27  public void postHandle(HttpServletRequest request, HttpServletResponse
response, Object handler,
28  ModelAndView modelAndView) throws Exception {
29  System.out.println("postHandle");
30  long start = (long) request.getAttribute("startTime");
31  System.out.println("time interceptor 耗时:" + (new Date().getTime() - sta
rt));
32  }
33  /**
34  * 执行controller方法之后调用，有异常也被调用
35  */
36  @Override
37  public void afterCompletion(HttpServletRequest request, HttpServletResponse
onse response, Object handler, Exception ex)
38  throws Exception {
39  System.out.println("afterCompletion");
40  long start = (long) request.getAttribute("startTime");
41  System.out.println("time interceptor 耗时:" + (new Date().getTime() - sta
rt));
42  System.out.println("ex is " + ex);
43  }
44
45  }

```

```

1  @Configuration
2  public class WebConfig extends WebMvcConfigurerAdapter{
3      @Autowired
4      private TimeInterceptor interceptor;
5
6      @Override
7      public void addInterceptors(InterceptorRegistry registry) {
8          registry.addInterceptor(interceptor);
9      }
10 }

```

拦截器局限性：handler获取不到参数的值