

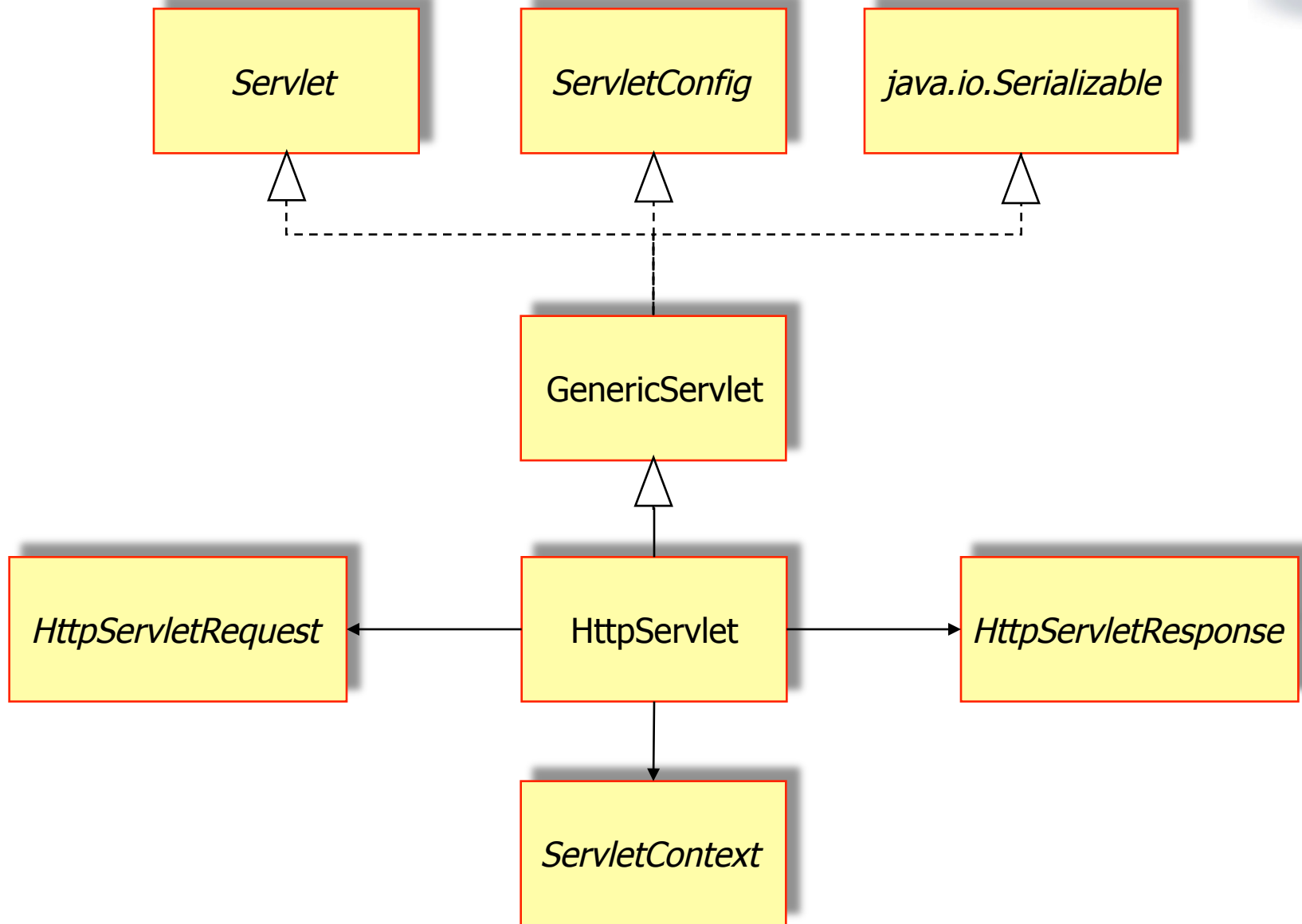


# Architecture des Systèmes d'Information

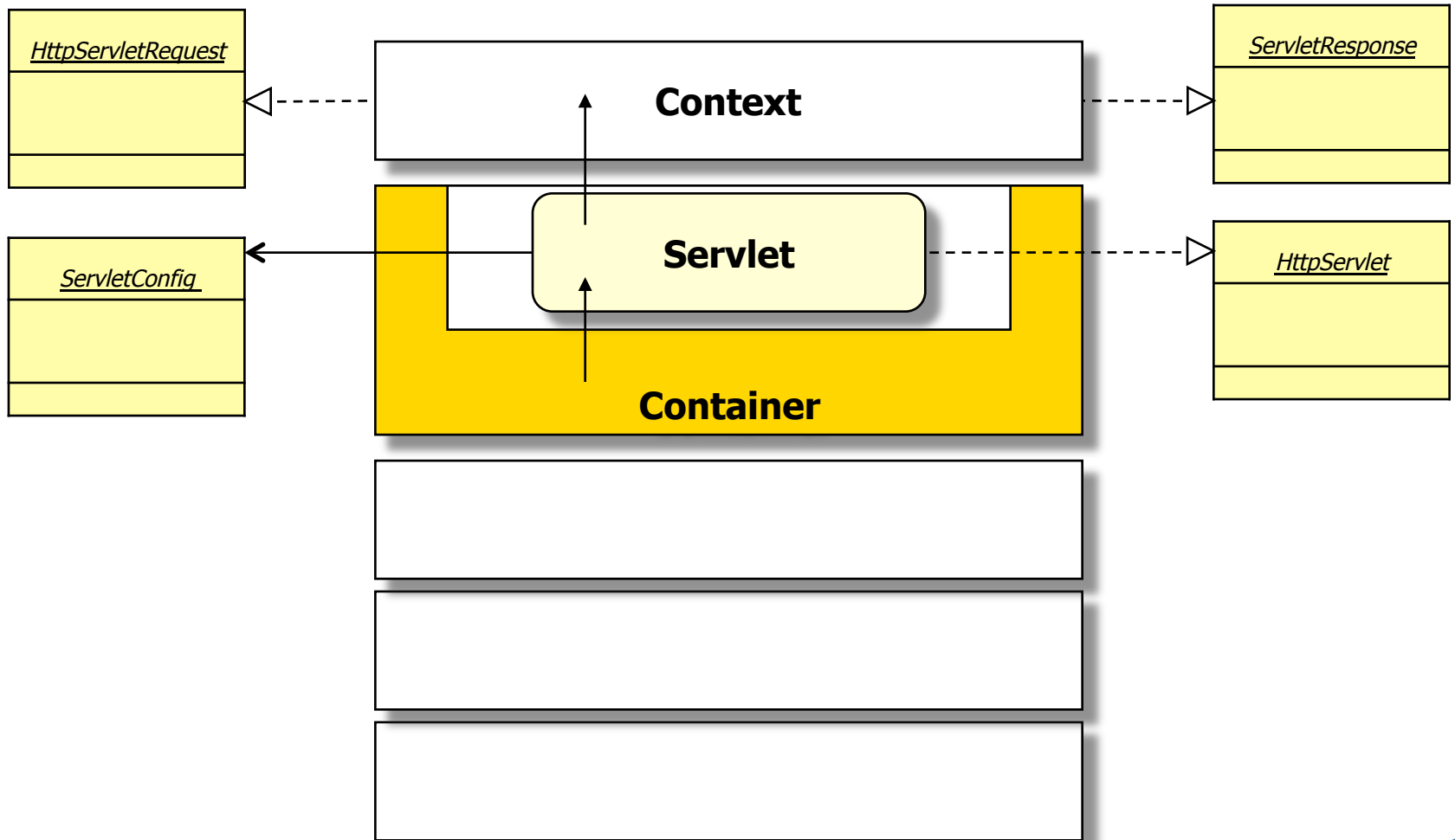
Servlet Components Instances



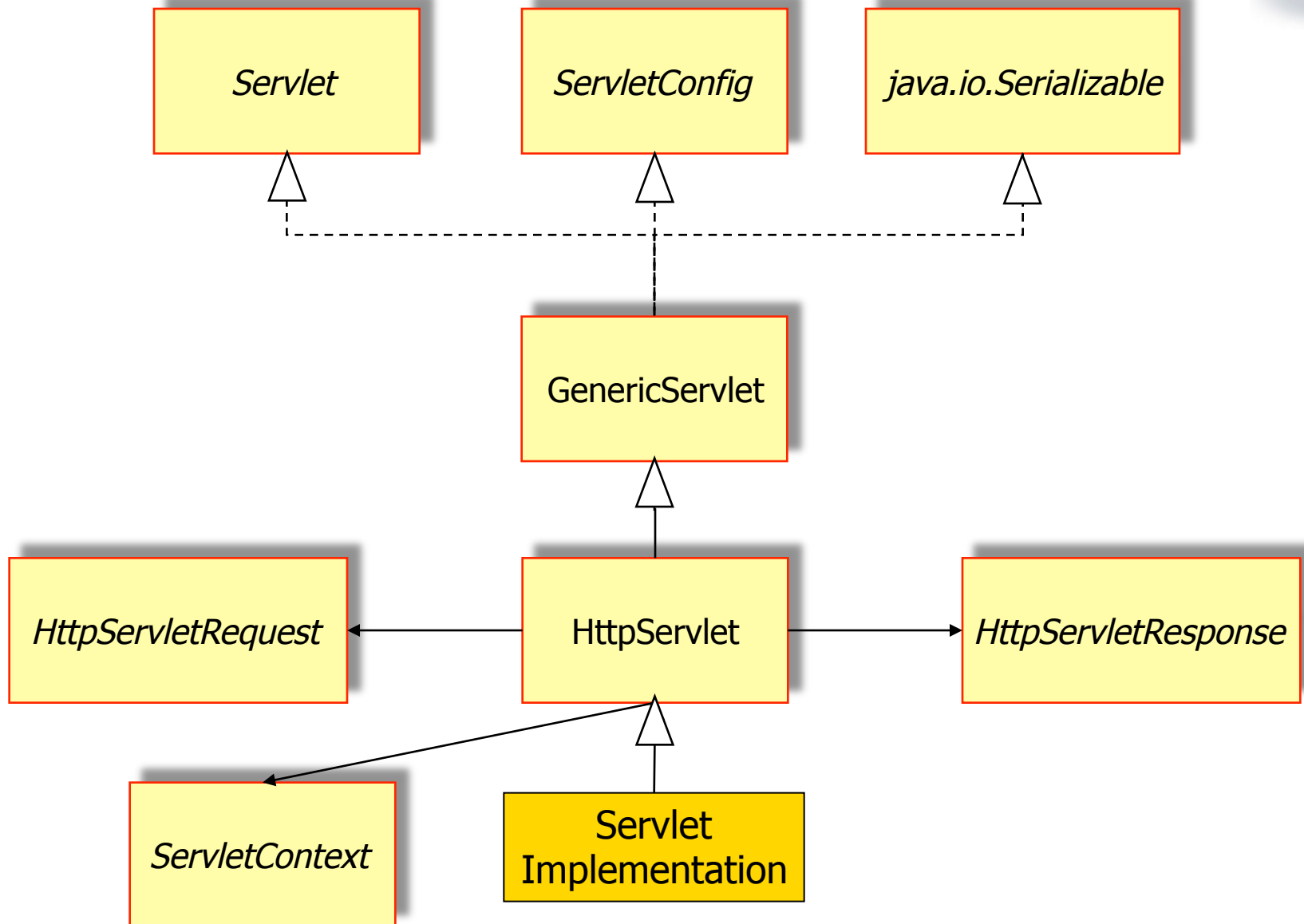
# Servlet Lattice



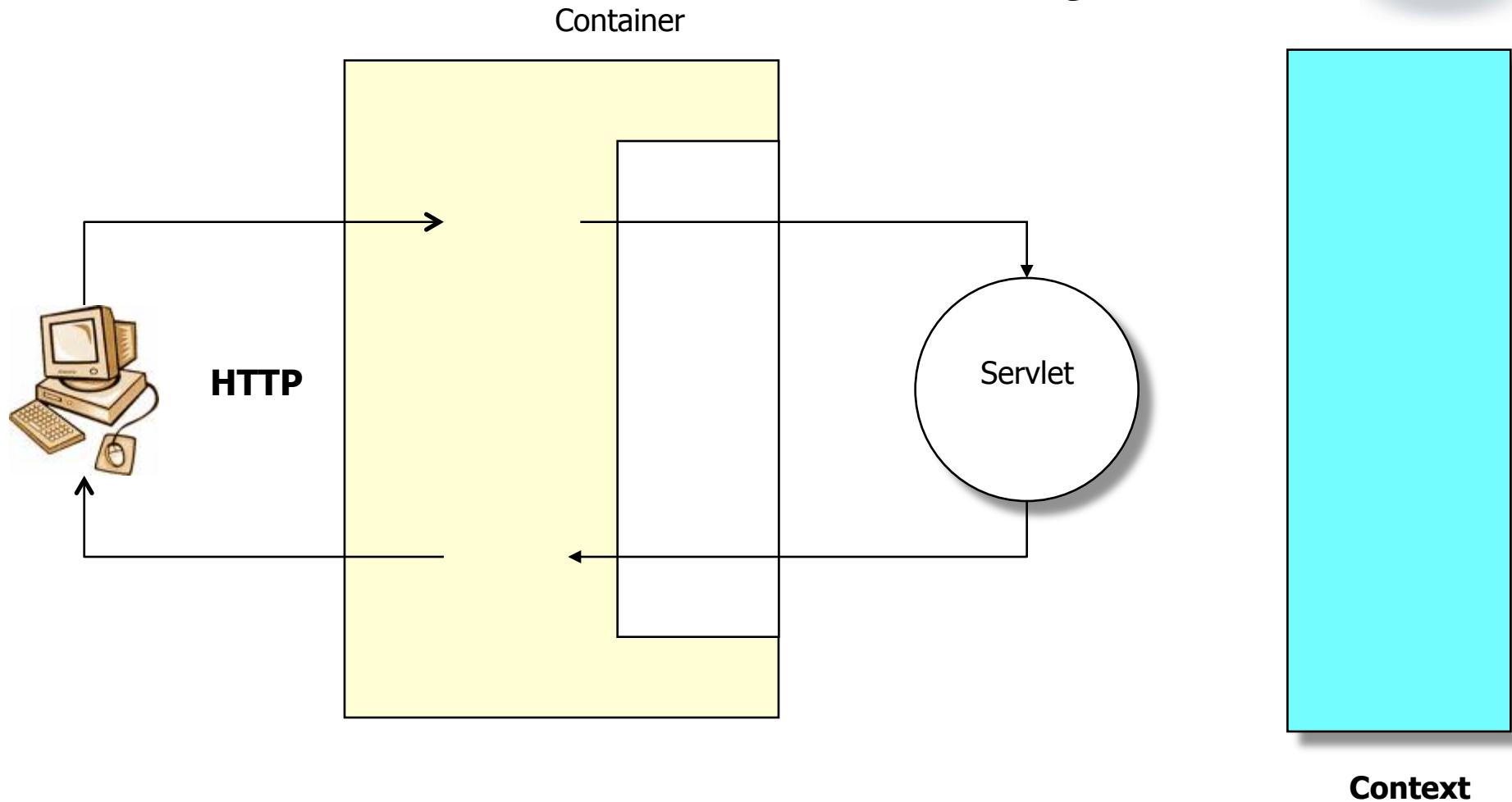
# Servlet



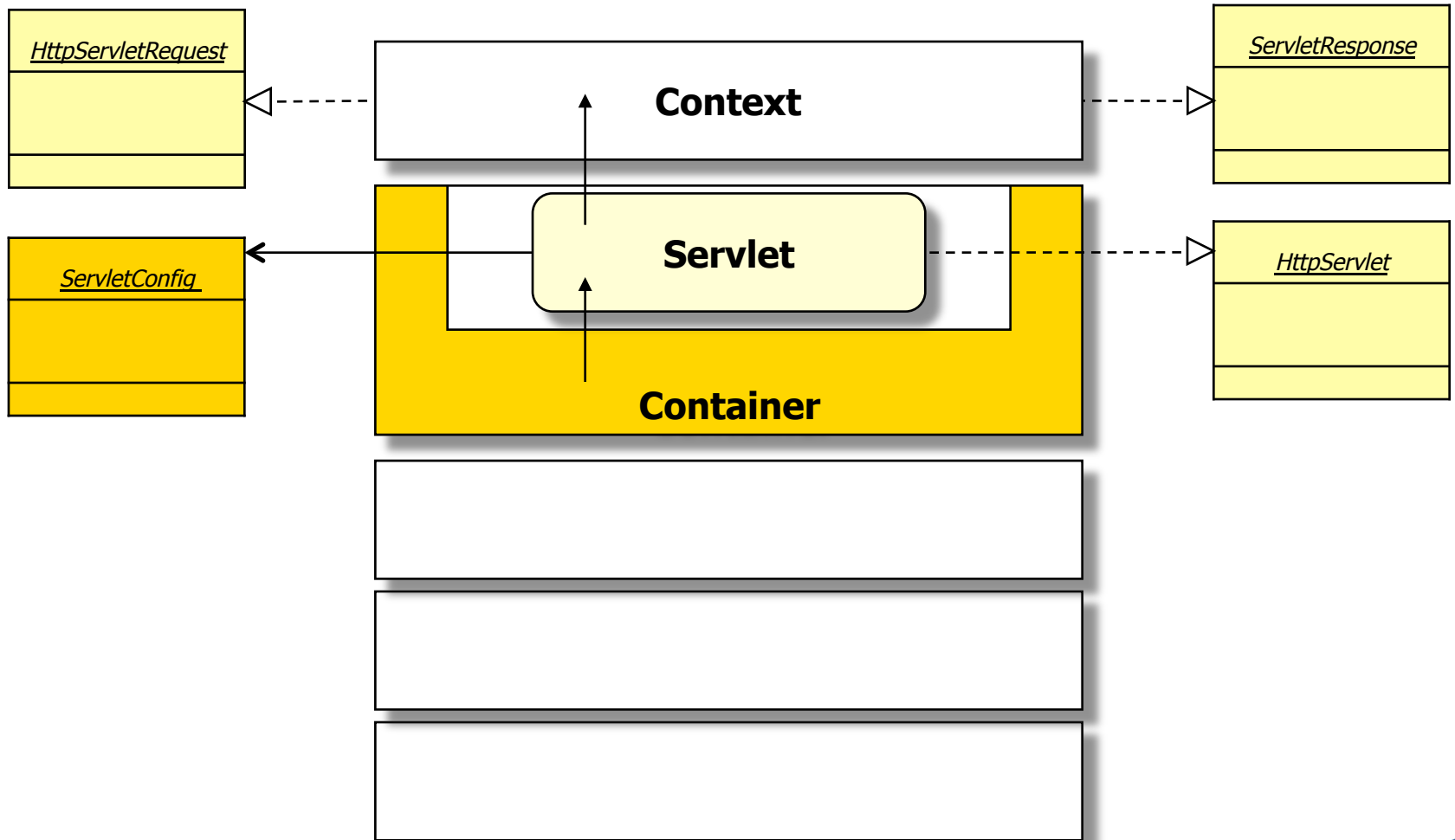
# Servlet Lattice



# Big Picture

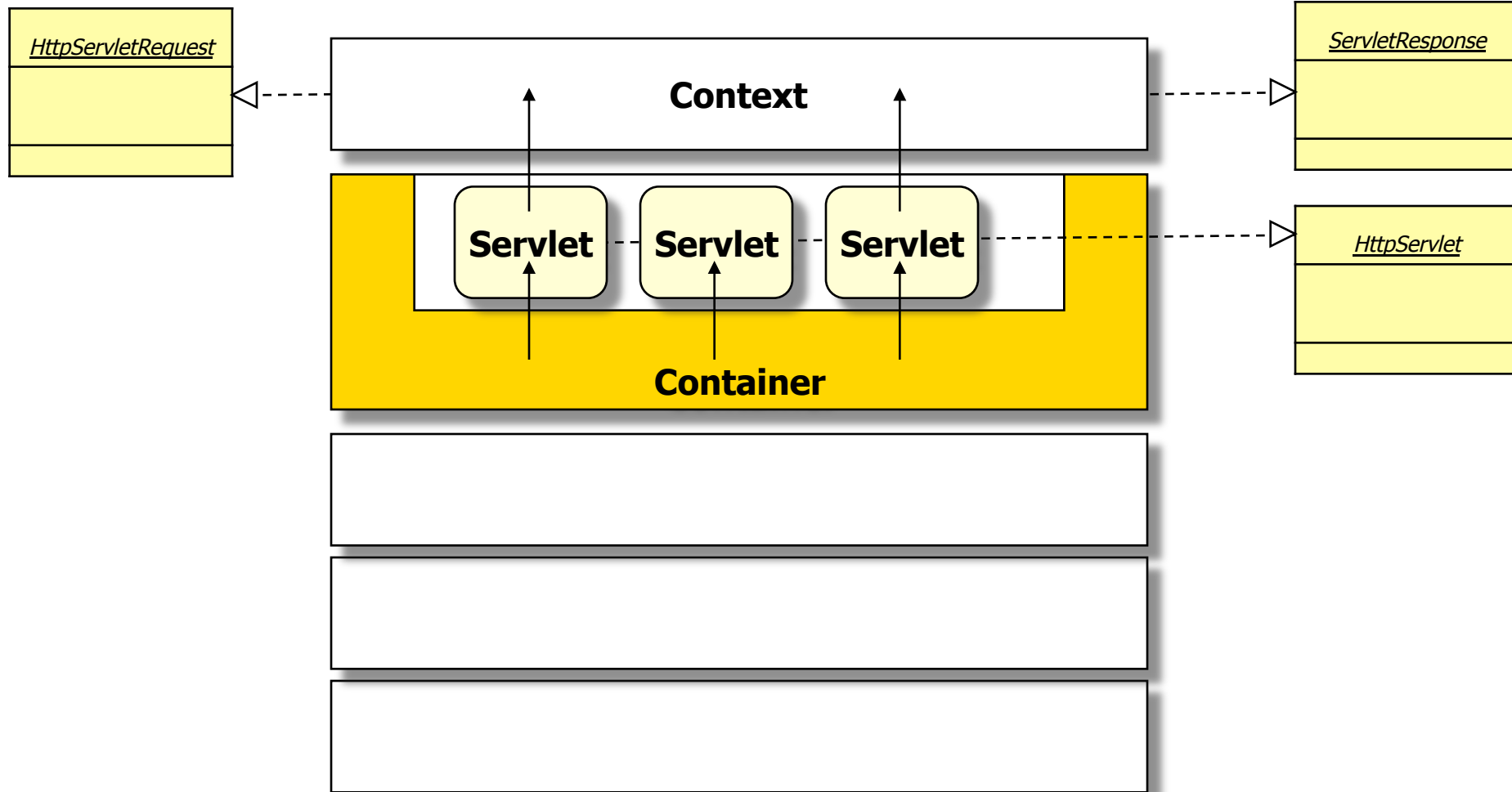


# Servlet Config



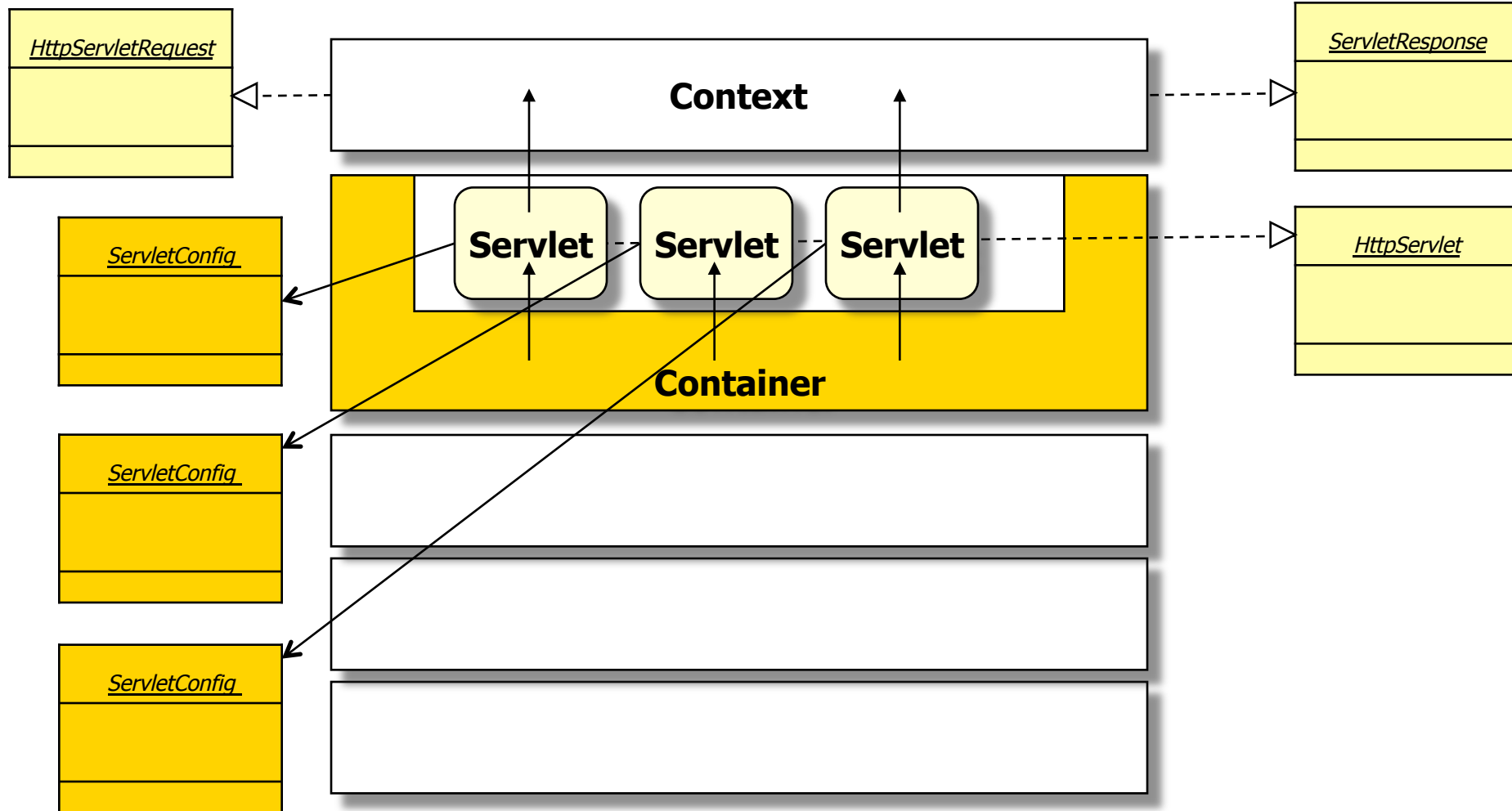


# Servlet Container and Servlet Context





# Servlet Container and Servlet Context





# Servlet creation



**Create Servlet**

Specify class file destination.

Project: URL22

Source folder: /URL22/src Browse...

Java package: url Browse...

Class name: URL

Superclass: javax.servlet.http.HttpServlet Browse...

☐ Use an existing Servlet class or JSP

Class name: URL Browse...

? < Back Next > Cancel Finish



# Servlet Class Creation



```
URL.java
1 package url;
2
3 import java.io.IOException;
4
5 /**
6  * Servlet implementation class URL
7  */
8 public class URL extends HttpServlet {
9     private static final long serialVersionUID = 1L;
10
11     /**
12      * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
13      */
14     protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
15         // TODO Auto-generated method stub
16         response.getWriter().append("Served at: ").append(request.getContextPath());
17     }
18 }
19
20
21
22
23
24
```



# Servlet runtime traces



```
*URL.java *web.xml
1 package url;
2
3 import java.io.IOException;
4
5 /**
6  * Servlet implementation class URL
7  */
8 public class URL extends HttpServlet {
9     private static final long serialVersionUID = 1L;
10
11     /**
12      * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
13      */
14     protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
15
16         System.out.println("URL servlet Ok");
17
18         // TODO Auto-generated method stub
19         response.getWriter().append("Served at: ").append(request.getContextPath());
20     }
21 }
22
23
24
25
26
27
28
```



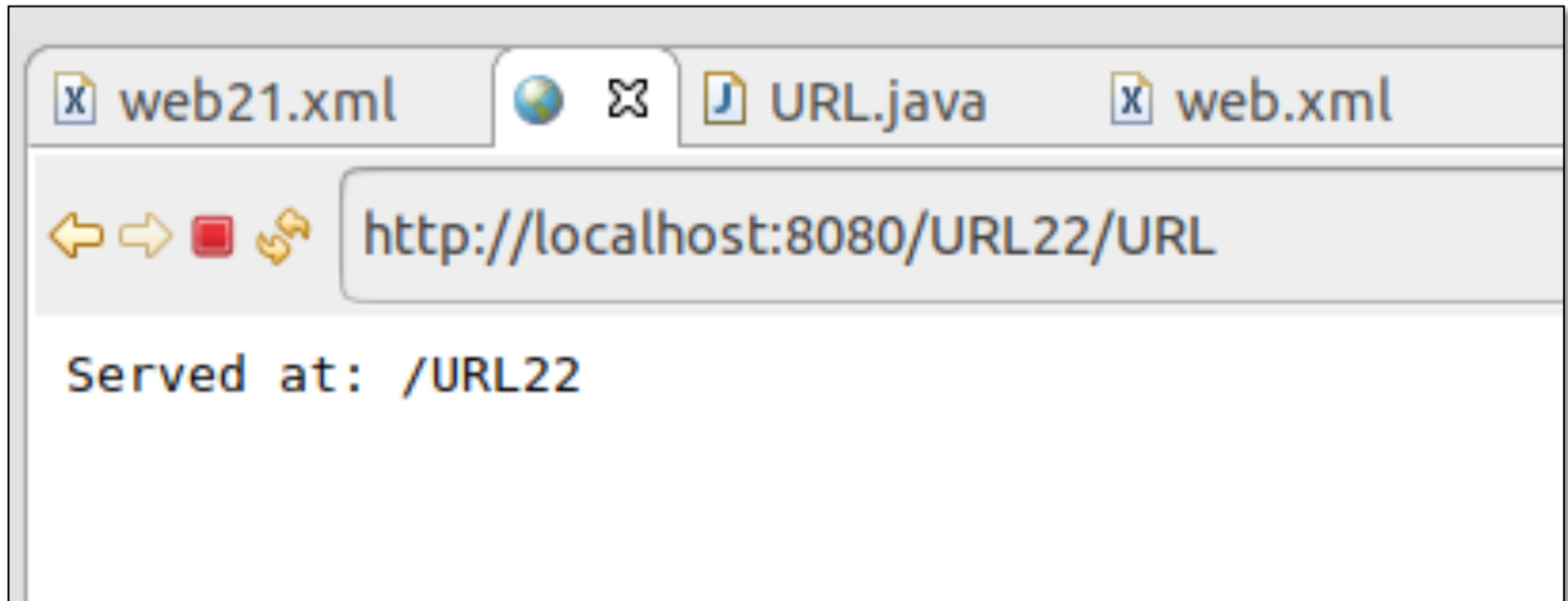
# Servlet eclipse default configuration



```
URL.java *web.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.2//EN" "http://java.sun.com/j2ee/dtds/web-app_2_2.dtd">
3 <web-app id="WebApp_ID">
4     <display-name>URL22</display-name>
5     <servlet>
6         <servlet-name>URL</servlet-name>
7         <display-name>URL</display-name>
8         <description></description>
9         <servlet-class>url.URL</servlet-class>
10    </servlet>
11    <servlet-mapping>
12        <servlet-name>URL</servlet-name>
13        <url-pattern>/URL</url-pattern>
14    </servlet-mapping>
15 </web-app>
16
```



# Servlet WEB pages

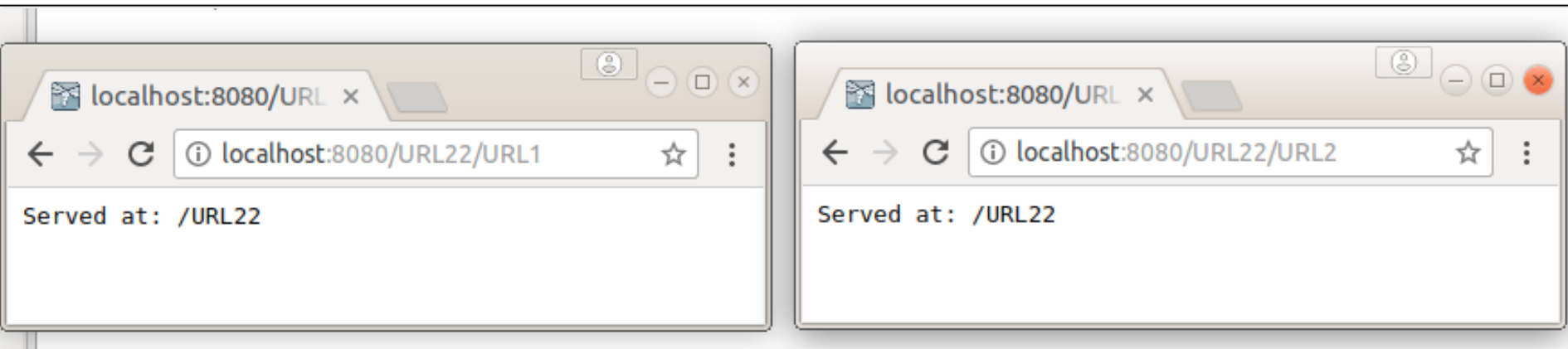


# Multiple URL instances : URL1, URL2



```
web.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.2//EN" "http://java.sun.com/j2ee/dtds/web-app_2_2.dtd">
3 <web-app id="WebApp_ID">
4   <display-name>URL2</display-name>
5
6   <servlet>
7     <servlet-name>URL1</servlet-name>
8     <servlet-class>url.URL</servlet-class>
9   </servlet>
10
11  <servlet>
12    <servlet-name>URL2</servlet-name>
13    <servlet-class>url.URL</servlet-class>
14  </servlet>
15
16  <servlet-mapping>
17    <servlet-name>URL1</servlet-name>
18    <url-pattern>/URL1</url-pattern>
19  </servlet-mapping>
20
21  <servlet-mapping>
22    <servlet-name>URL2</servlet-name>
23    <url-pattern>/URL2</url-pattern>
24  </servlet-mapping>
25
26 </web-app>
27
```

# One servlet for Two pages :



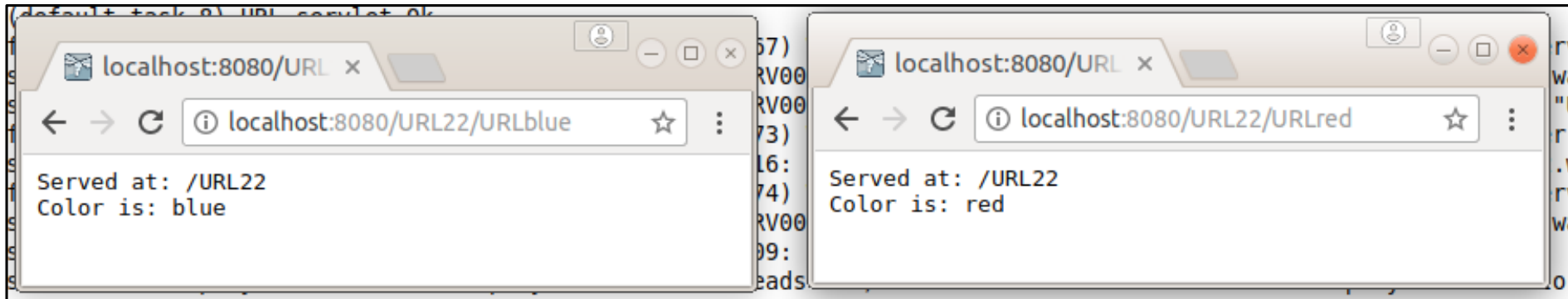
# Colors Servlet



```
web.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.2//EN" "http://java.sun.com/j2ee/dtds/web-app_2_2.dtd">
3 <web-app id="WebApp_ID">
4
5     <servlet>
6         <servlet-name>URLblue</servlet-name>
7         <servlet-class>urlColor.URLcolor</servlet-class>
8         <init-param>
9             <param-name>color</param-name>
10            <param-value>blue</param-value>
11        </init-param>
12    </servlet>
13
14    <servlet>
15        <servlet-name>URLred</servlet-name>
16        <servlet-class>urlColor.URLcolor</servlet-class>
17        <init-param>
18            <param-name>color</param-name>
19            <param-value>red</param-value>
20        </init-param>
21    </servlet>
22
23    <servlet-mapping>
24        <servlet-name>URLblue</servlet-name>
25        <url-pattern>/URLblue</url-pattern>
26    </servlet-mapping>
27
28    <servlet-mapping>
29        <servlet-name>URLred</servlet-name>
30        <url-pattern>/URLred</url-pattern>
31    </servlet-mapping>
32
33 </web-app>
34
```



# Colors Pages



# Colors Pages

