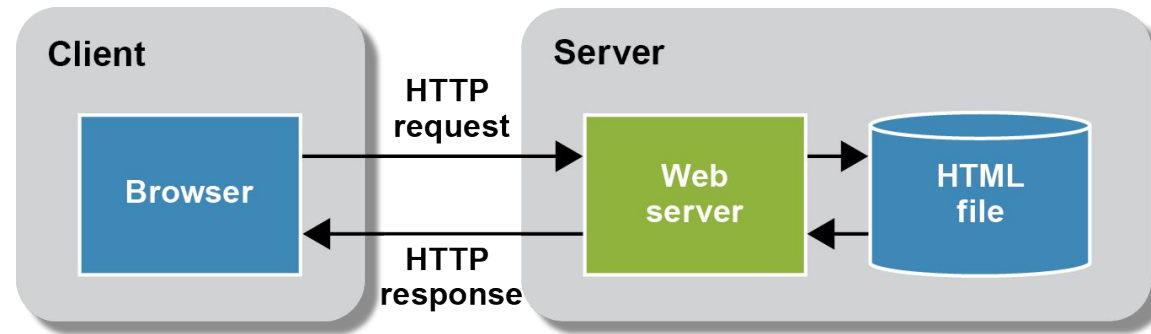
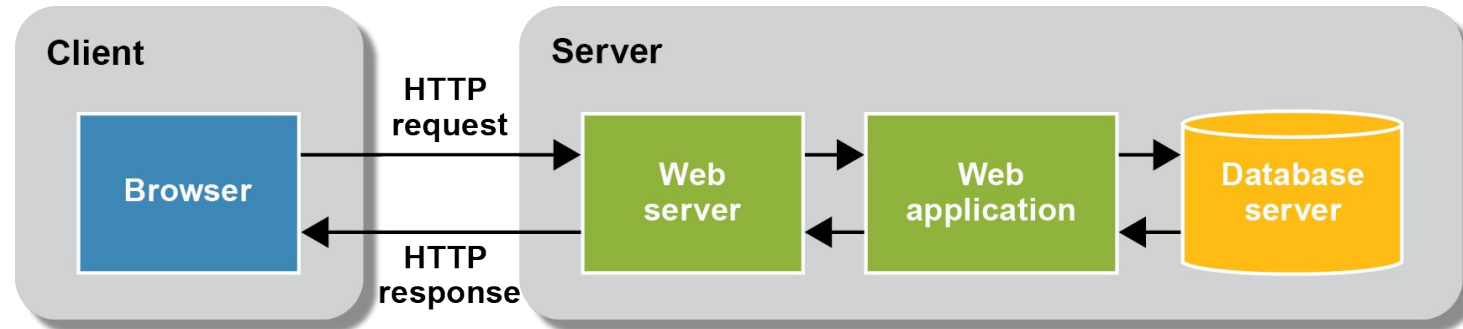


# Servlet

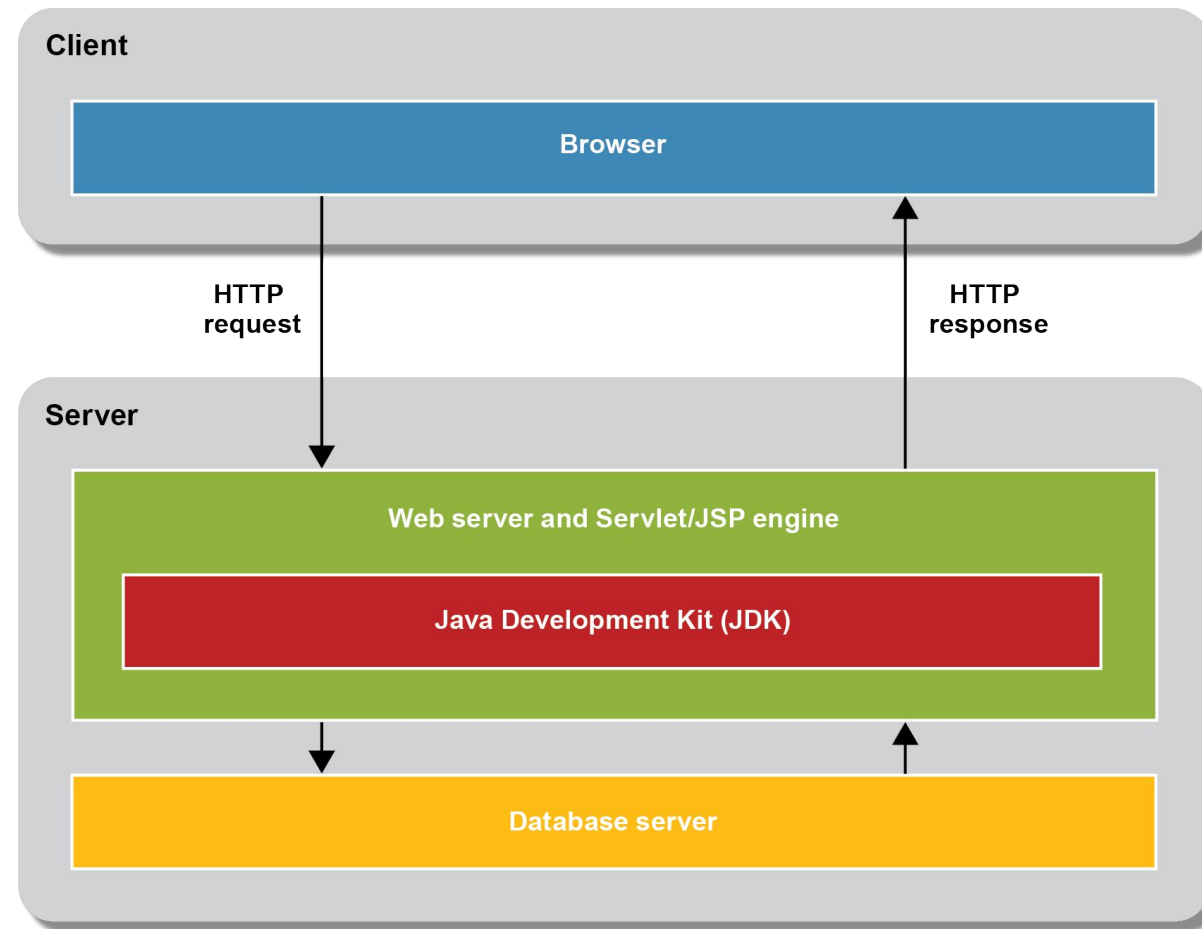
## How a web server processes static web pages



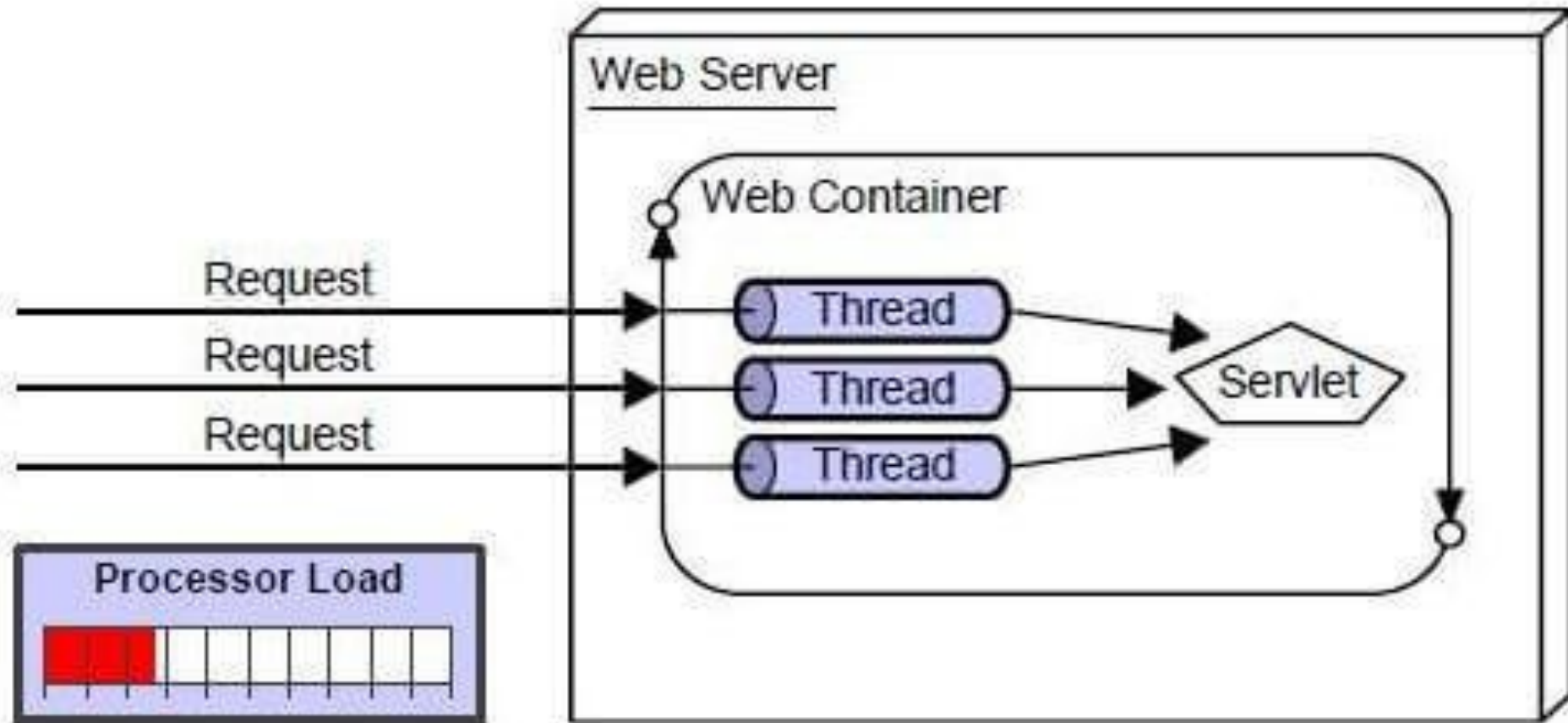
## How a web server processes dynamic web pages



# The components of a servlet/JSP application



## Servlet



## The directories and files for a web application

Directory	Description
(root)	Contains the HTML and JSP files.
\WEB-INF	Contains the web.xml file and is not directly accessible from the web.
\WEB-INF\classes	Contains the servlets and other Java classes for your application. Each subdirectory corresponds with the package for the Java class.
\WEB-INF\lib	Contains any JAR files that contain Java class libraries that are used by the web application.
\META-INF	Contains the context.xml file that configures the web application context.

# “Hello World” Servlet

```
package com.laptrinhweb;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class HelloServlet extends HttpServlet{
    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException,
    IOException {
        resp.setContentType("text/html");
        PrintWriter printWriter = resp.getWriter();
        printWriter.println("Xin chao lop Lap Trinh Web");
        printWriter.close();
    }
}
```

## 2 cách cấu hình 1 Servlet

Trong **Web.xml**

```
<servlet>
  <servlet-name>HelloWorld</servlet-name>
  <servlet-class>demoServlet.HelloWorld</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>HelloWorld</servlet-name>
  <url-pattern>/hello</url-pattern>
</servlet-mapping>
```

Giữ Ctrl bấm để kiểm tra



Trong **Class Servlet**

```
@WebServlet(urlPatterns = "/hello")
```

## Servlet “Chuyển dữ liệu qua thanh địa chỉ”

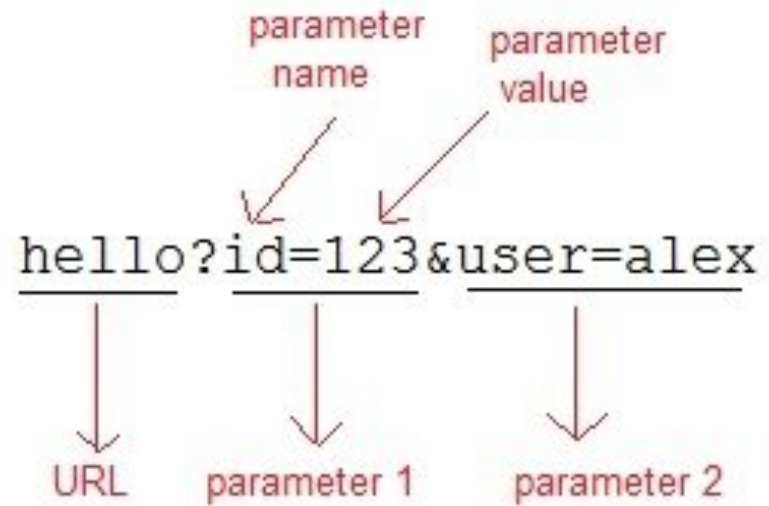
```
package com.laptrinhweb;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet(urlPatterns = {"/hello"})
public class GetRequestDemo extends HttpServlet{
    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
        resp.setContentType("text/html");
        PrintWriter printWriter = resp.getWriter();
        String user = req.getParameter("user");
        String id = req.getParameter("id");
        printWriter.println("xin chao nguoi su dung " + user + " voi id " + id);
    }
}
```



## Chuyển dữ liệu qua thanh địa chỉ



## Cú pháp trong JSP

<% java code %>

<%= expression %>