# Spring - Feb 22

Cookie:

Track you, to remember you

- remember me function

HTTPS

URL

- the advantage to use parameters:
  - GET request can not use body(rules)

https://www.xyz.com/path/sdas/213?name=jack&ter=321

protocol | host name | path | (query)parameters

server tries to find a servlet in java

only path will be taken into consideration

the benefit of parameters in url → GET method does not allow to take with a body

? → question mark

& → divde parameter

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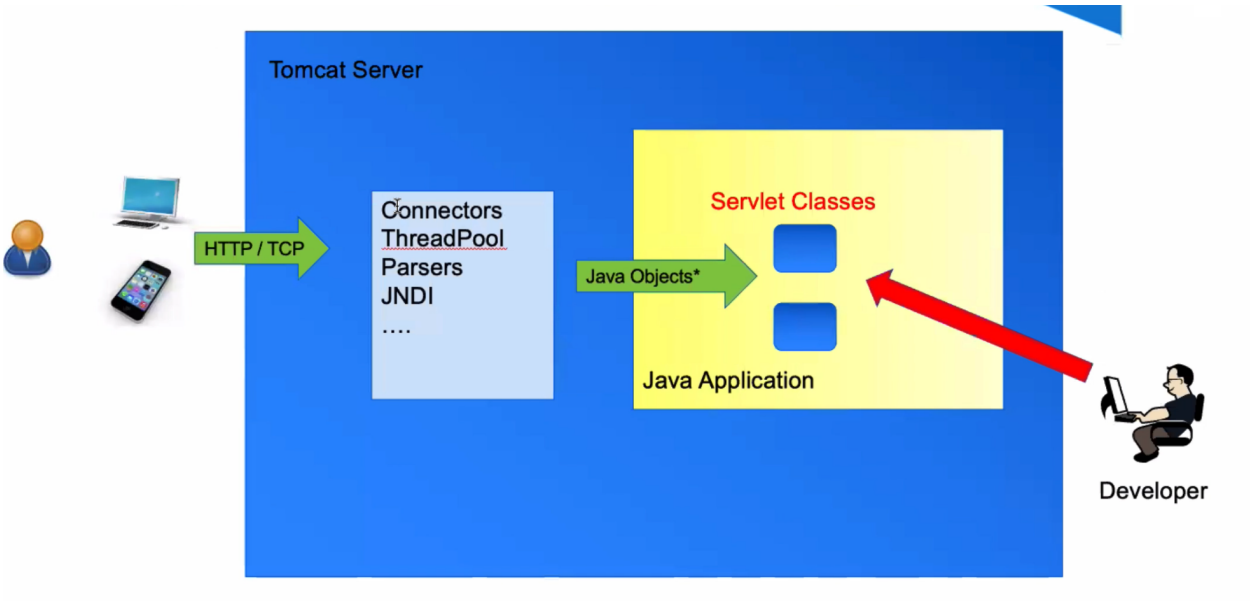
## Tomcat Server



Tomcat server will convert that HTTP requests into Java objects.

- Two objects: request and response
- we write Servlets to handle these two objects

Tomcat server deals with other things:

- how to connect with clients
- how to listen to ports

Servlet:

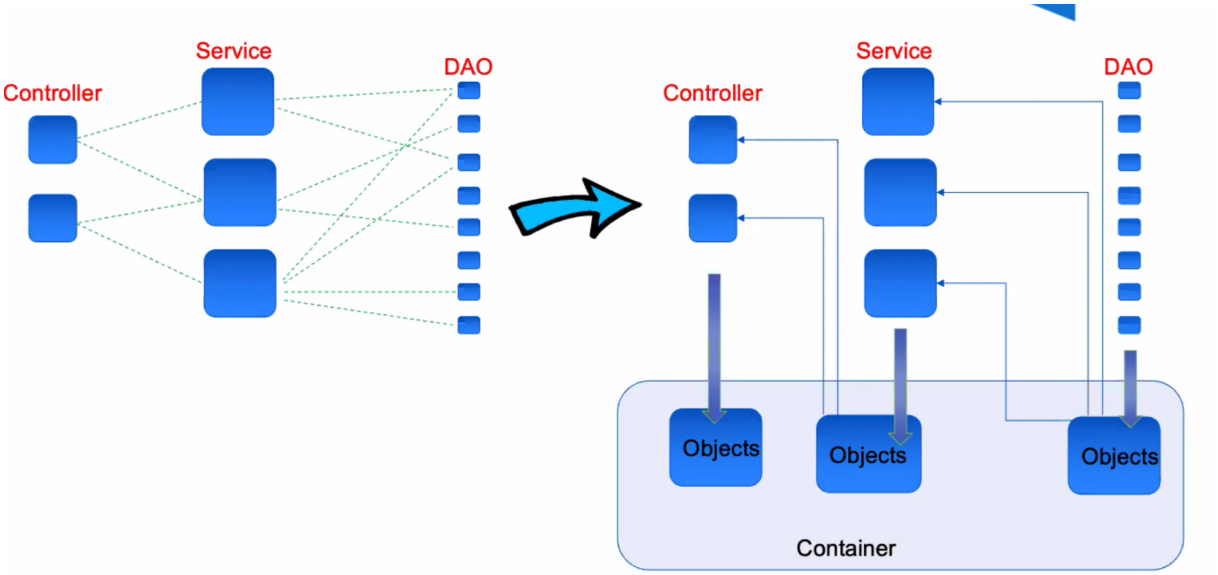
- how to handle request
- what kinds of contents of response to be sent

```
@WebServlet(name = "LoginServlet", urlPatterns = {"/login"})

public class LoginServlet extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

    }
}
```

Spring

IOC

- I need the class, just create to me




- The IoC container will create the objects, wire them together, configure them, and manage their complete life cycle from creation till destruction. These objects are called Spring Beans.
- The container gets its instructions on what objects to instantiate, configure, and assemble by reading the configuration metadata provided. The configuration metadata can be represented either by **XML**, Java **annotations**, or **Java code**

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Material:

## Tomcat Server

Apache Tomcat, which is often referred to as Tomcat Server, is an open-source Java Servlet Container developed by the Apache Software Foundation (ASF). Tomcat implements several Java EE specifications including Java Servlet, JavaServer Pages (JSP), Java EL, and WebSocket, and provides a "pure Java" HTTP web server environment in which Java code can run.

- RPC(Remote Procedure Call): a function call to a remote server.
- Java Servlet: Java class to handle RPC on the server-side.
- Tomcat is an environment to run your web service, it provides low-level support such as making TCP connections, receiving requests from clients, finding the correct service to handle that request, and sending a response back.
- If you want to create a web service based on Tomcat Server, all you need to do is implement the logic to handle certain HTTP requests.

## HTTP request and response