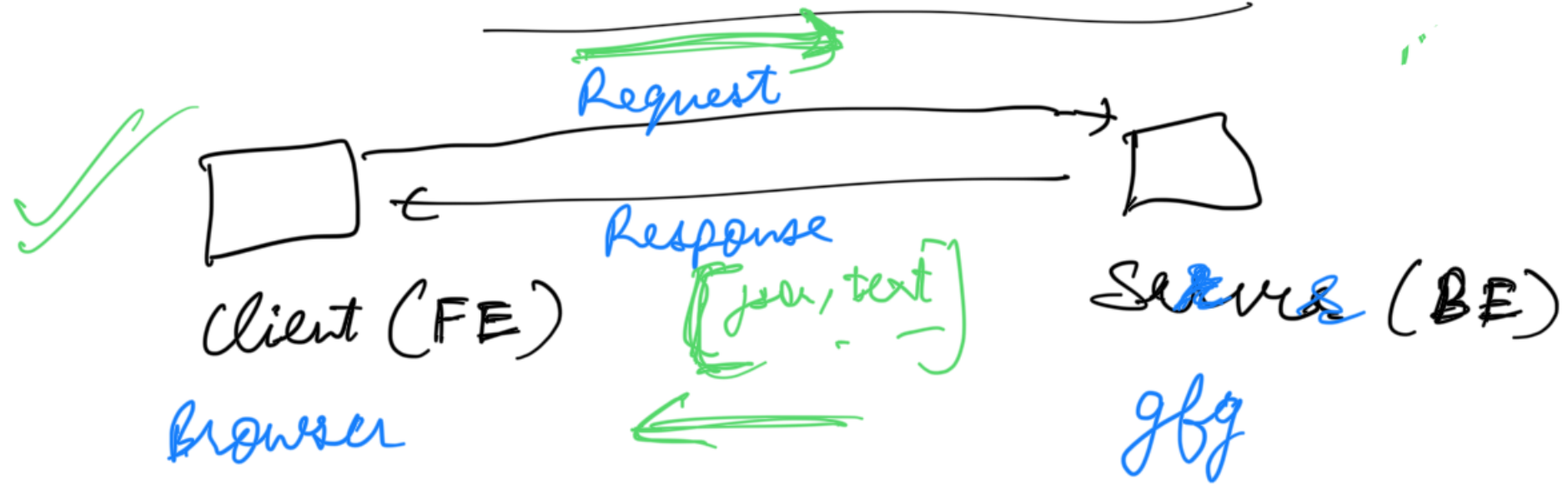


Client - Server Model



[dumb entity] brainless

webpage

no use

only FE

Tools

Postman

to test the BE

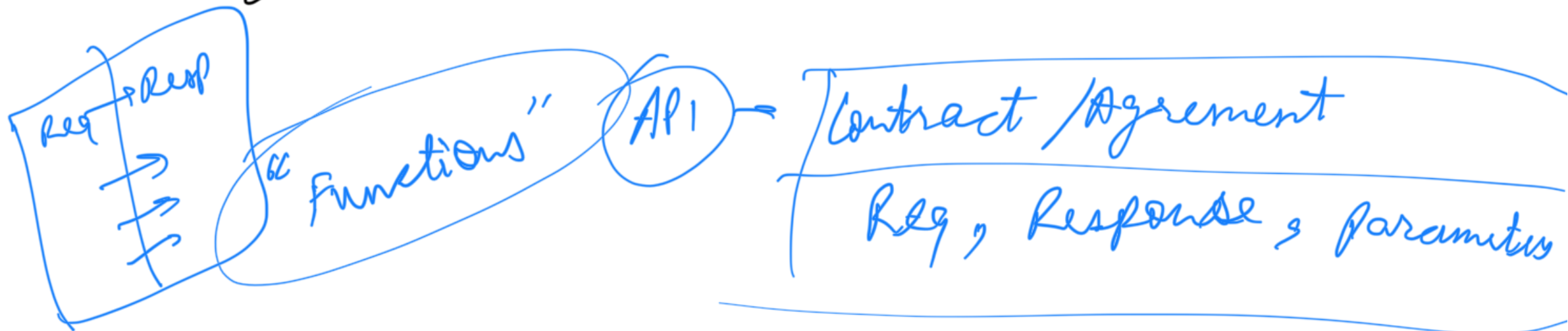
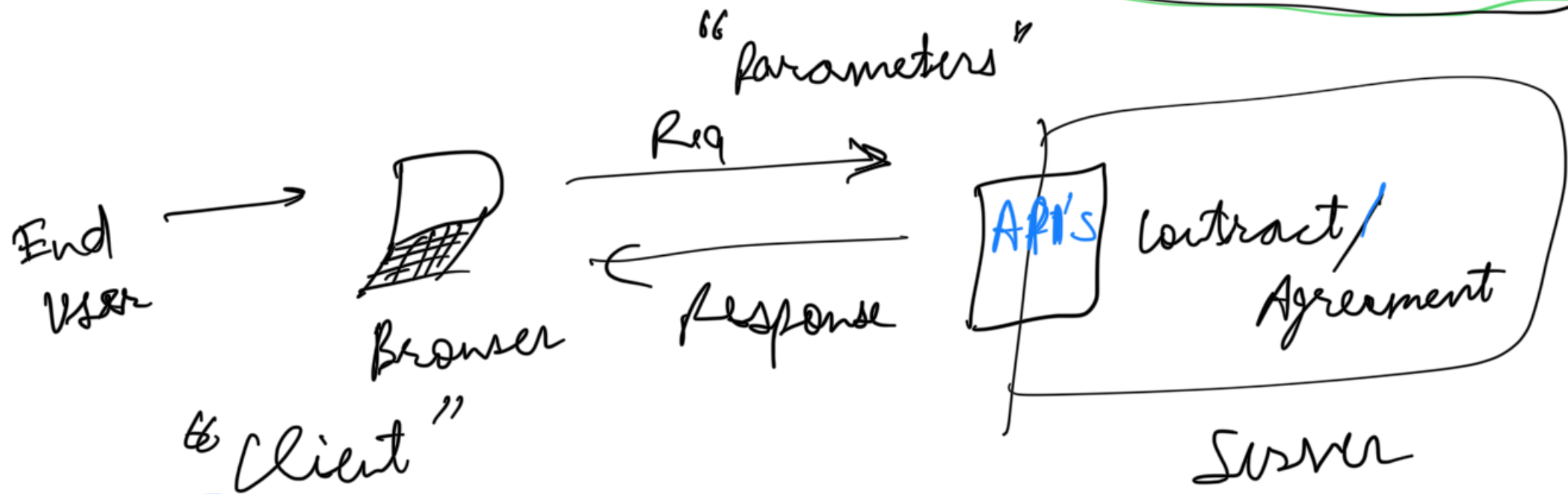
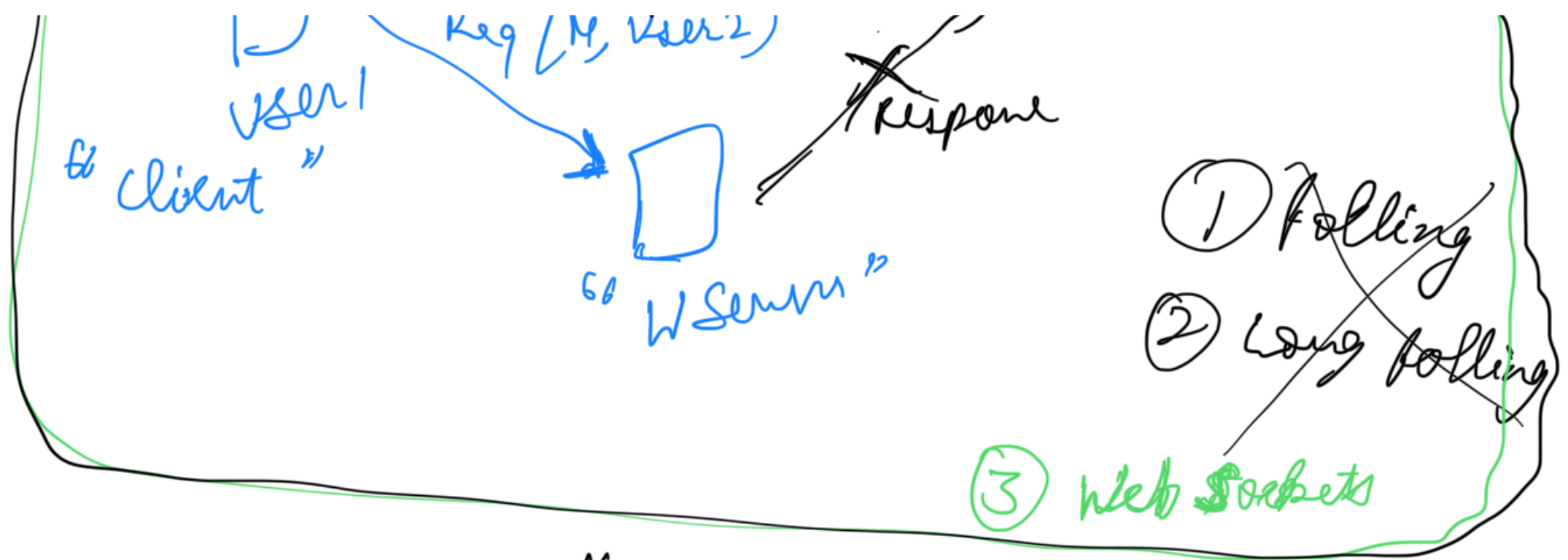
FE client

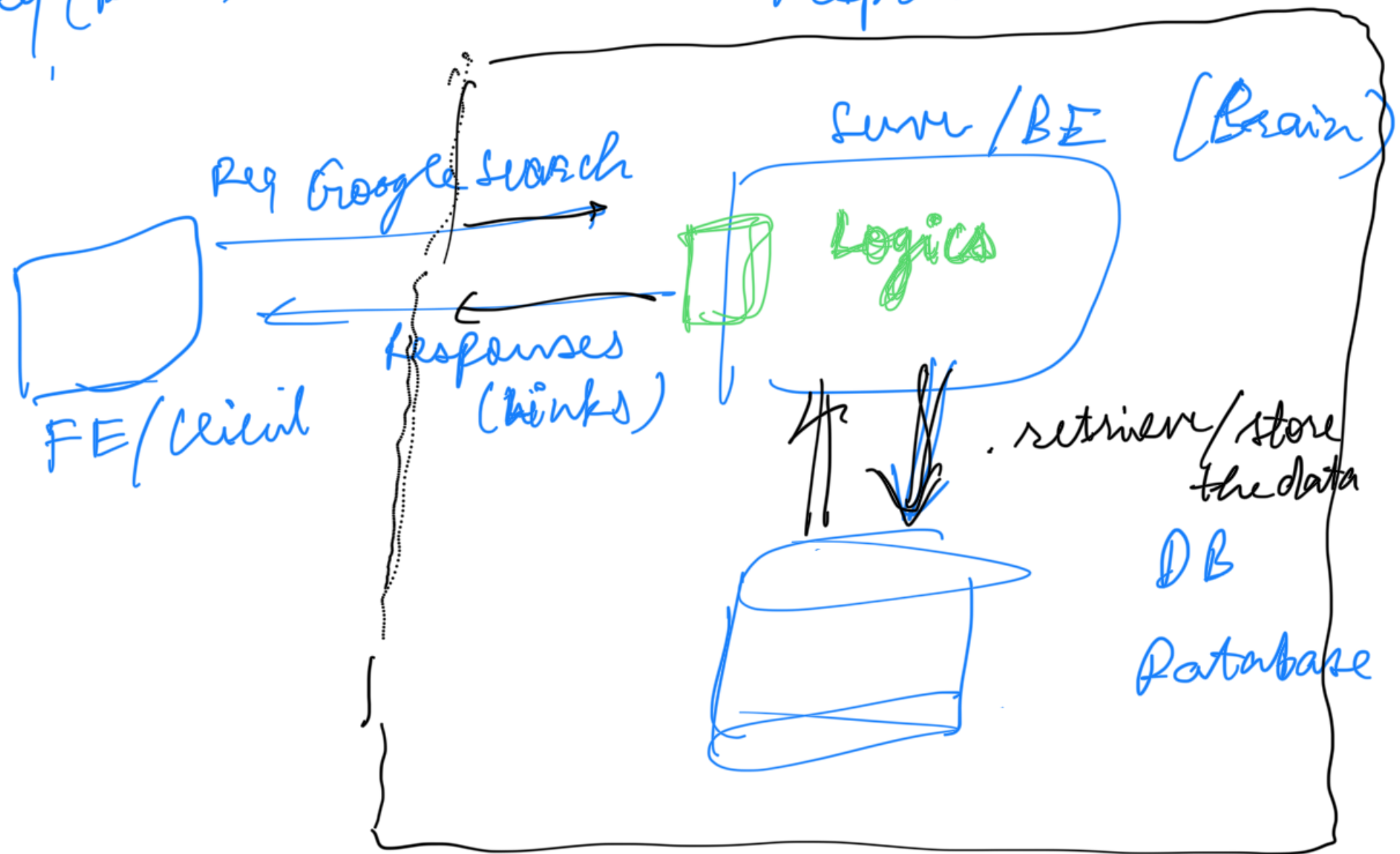
Req

Response

whatsapp

usr 2
"client"





How data is stored / retrieved to / from DB
↳ BE job

7
n
+
resource of it

(FE need not be aware of)

Composition of URL

⇒ URL Uniform Resource Locator

~~geekf~~
geeksforgeeks.org

Client $\xrightarrow{\text{Req}}$ Server

Any functionality on the web

protocol:

http
https

Domain name

Sub domain

Main domain

geeksforgeeks

Top level domain

org

ftp
smtp

Options
for
www

.org/
com/
-edu

Port number

localhost: 8080

complete / search

API path endpoint

127.0.0.1

docs.google.com

geeksforgeeks.org

IP address: PORT

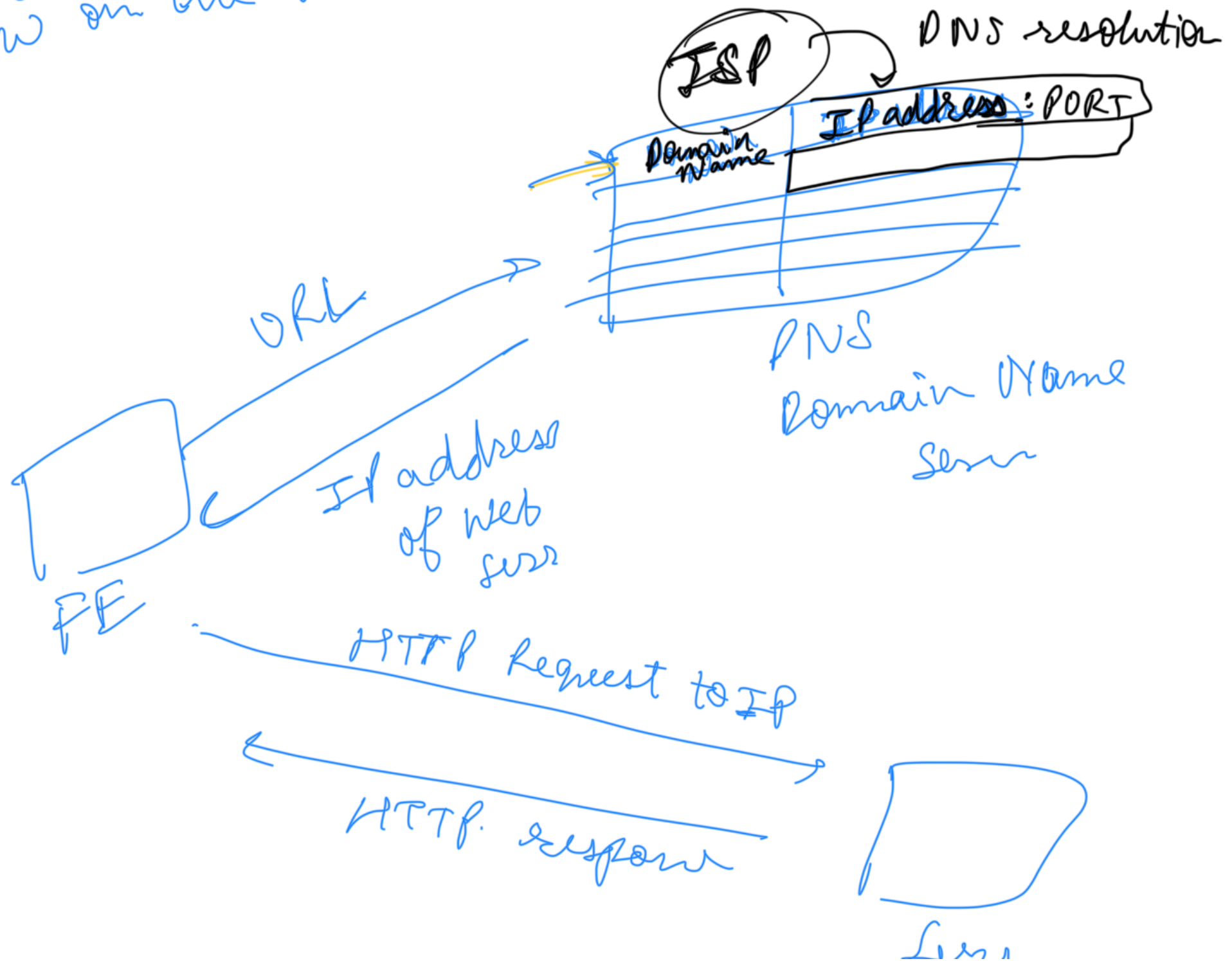
~~data~~ profile / create
save
list
delete

API path

Address → House No, Street No, Area

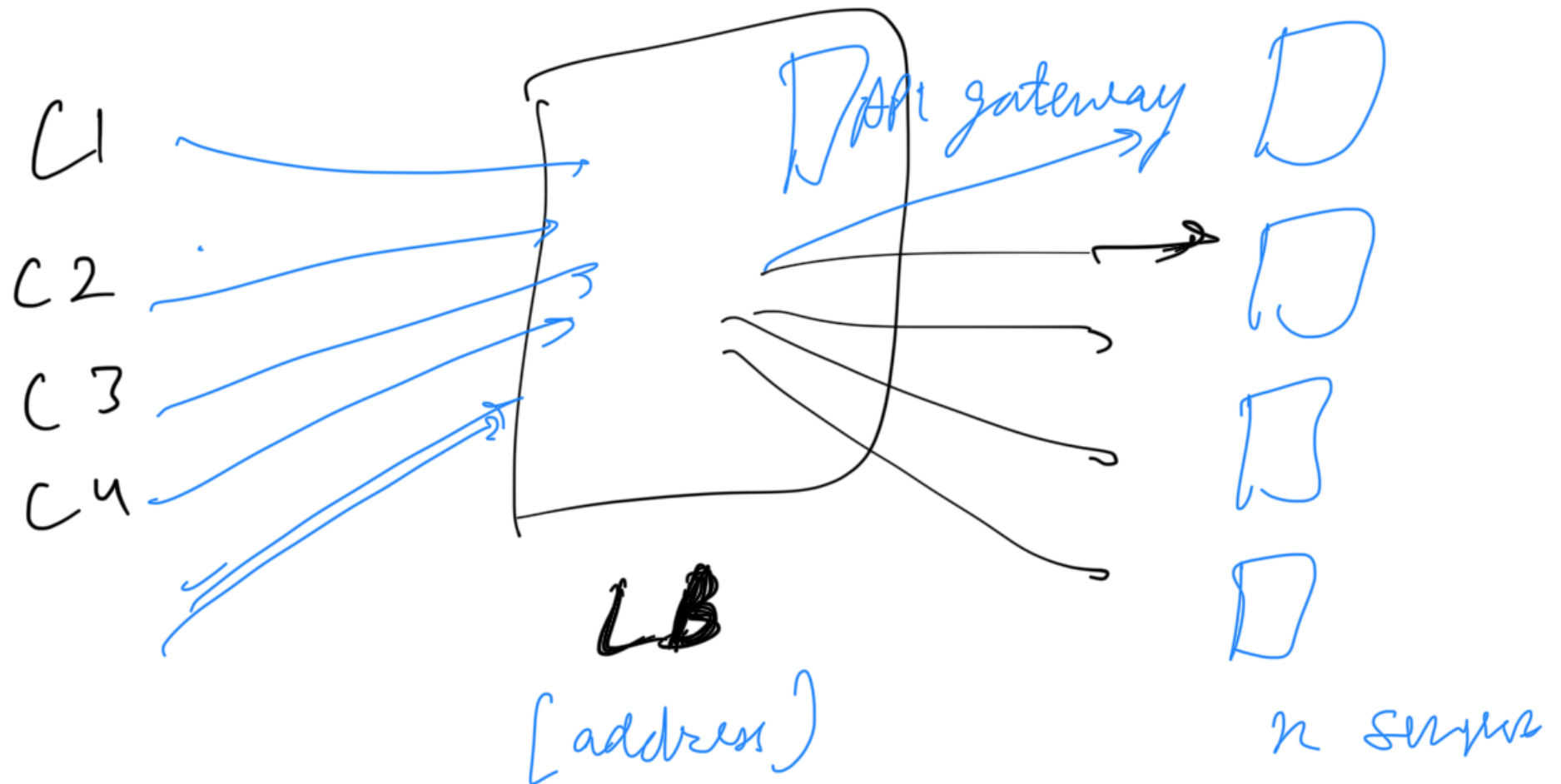
~~Host~~
Address
of any
H/W on the web

IP address + PORT
Number



If address \rightarrow Unique address of every H/W on the internet

API gateway



Load Balancer

Balances the load
G/w servers

JAVA application	Server
Runs and stops	Running for an inf. amt of time

OS layers

32-bit

Chrome

Application



process



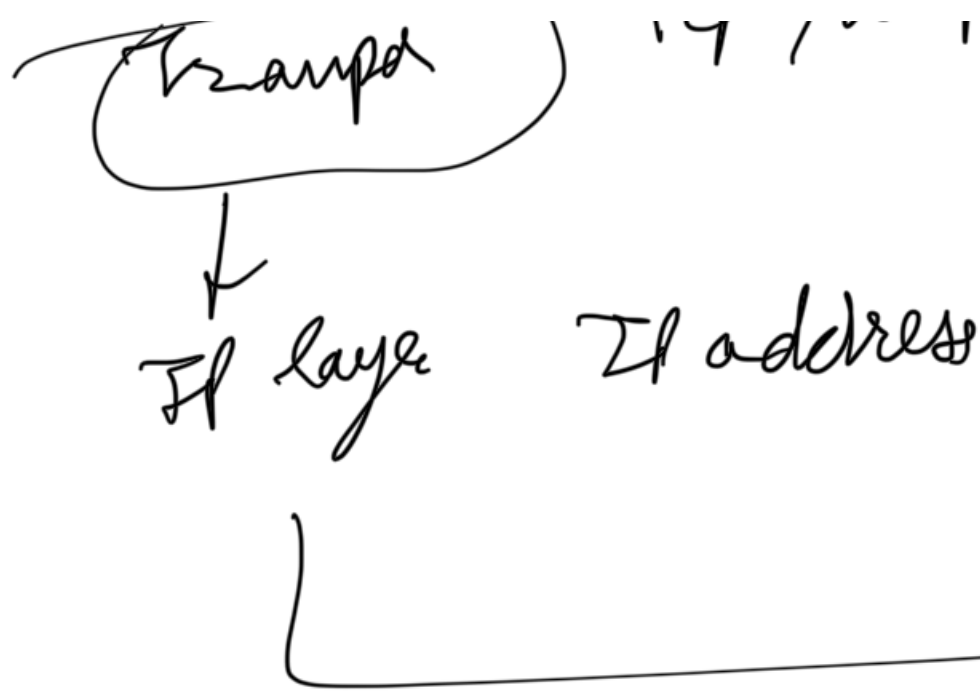
OS

kernel

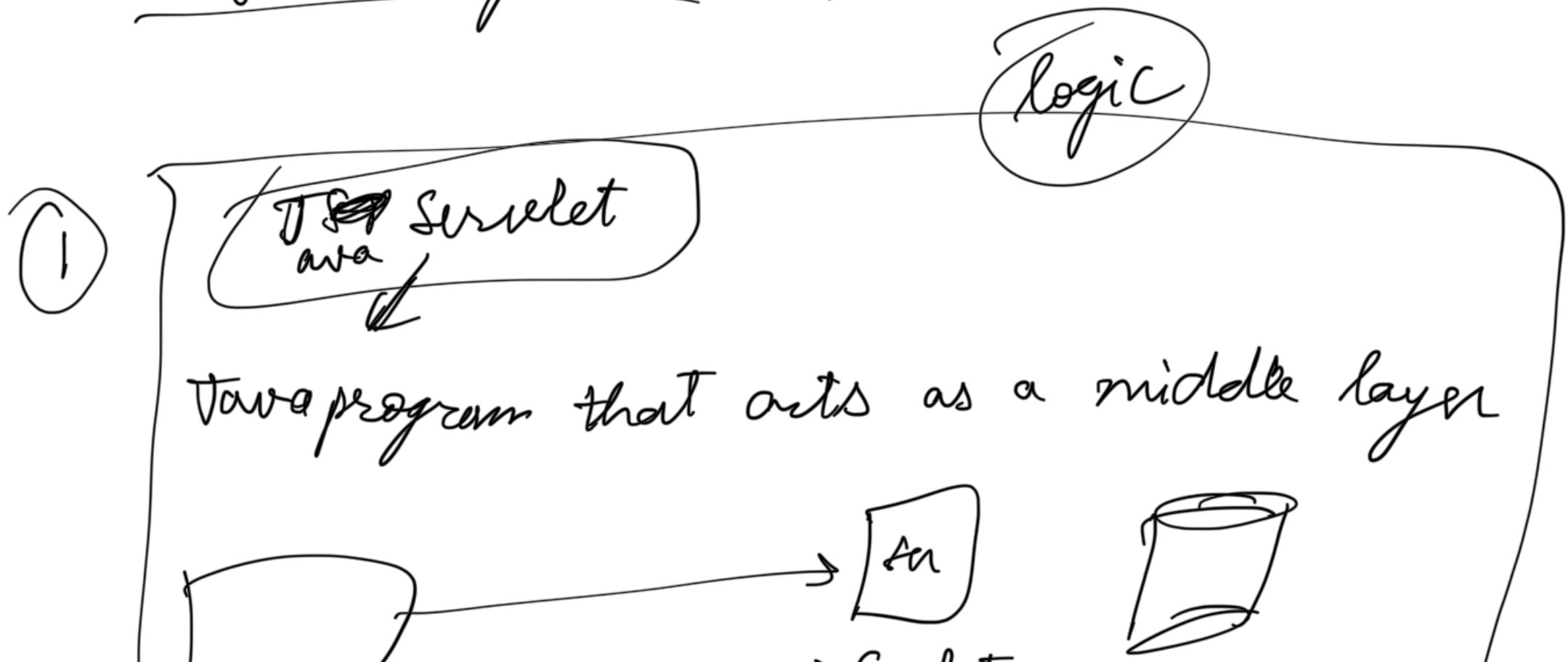
to include

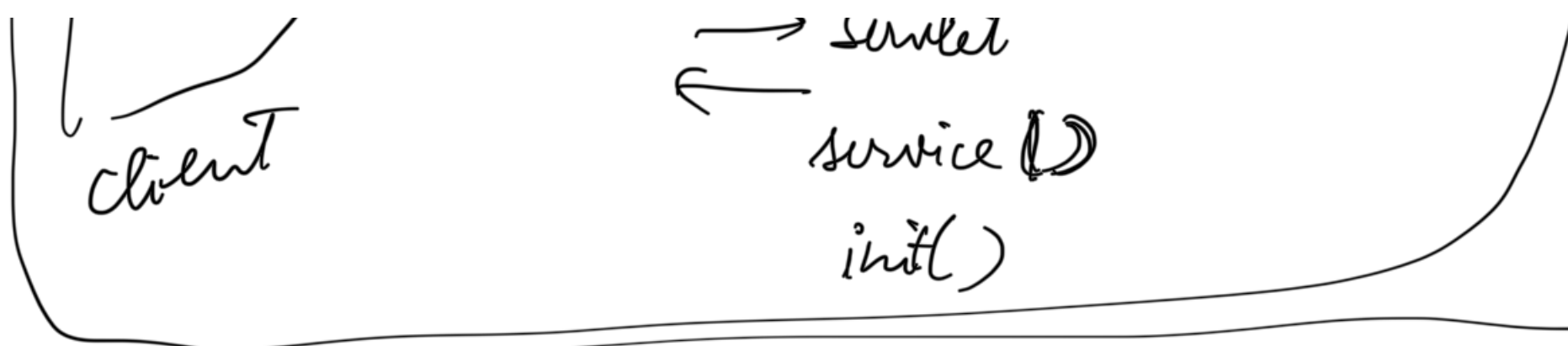
Target ~~app~~

Application



Before Spring boot (framework)





② JSP ~~Frontend~~ Dynamic web content

③ JDBC → database interaction, Connection
Driver
Manager

④ XML config. SQL statements

⑤ Server → Tomcat, JBoss, WebLogic

Dependency Management

Spring boot → Spring Module

Spring Framework + Embedded servers (Tomcat, Jetty) — XML config. @config

Dependency Injection
JPA

IOC