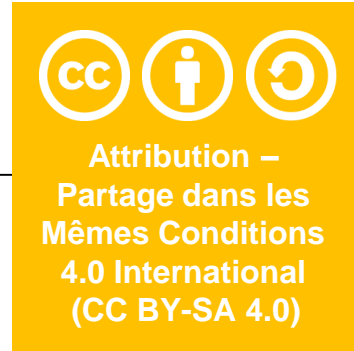# Programmation Web – Avancé

BINV2150 A : JavaScript (& JAVA SERVLETS)
Week 9
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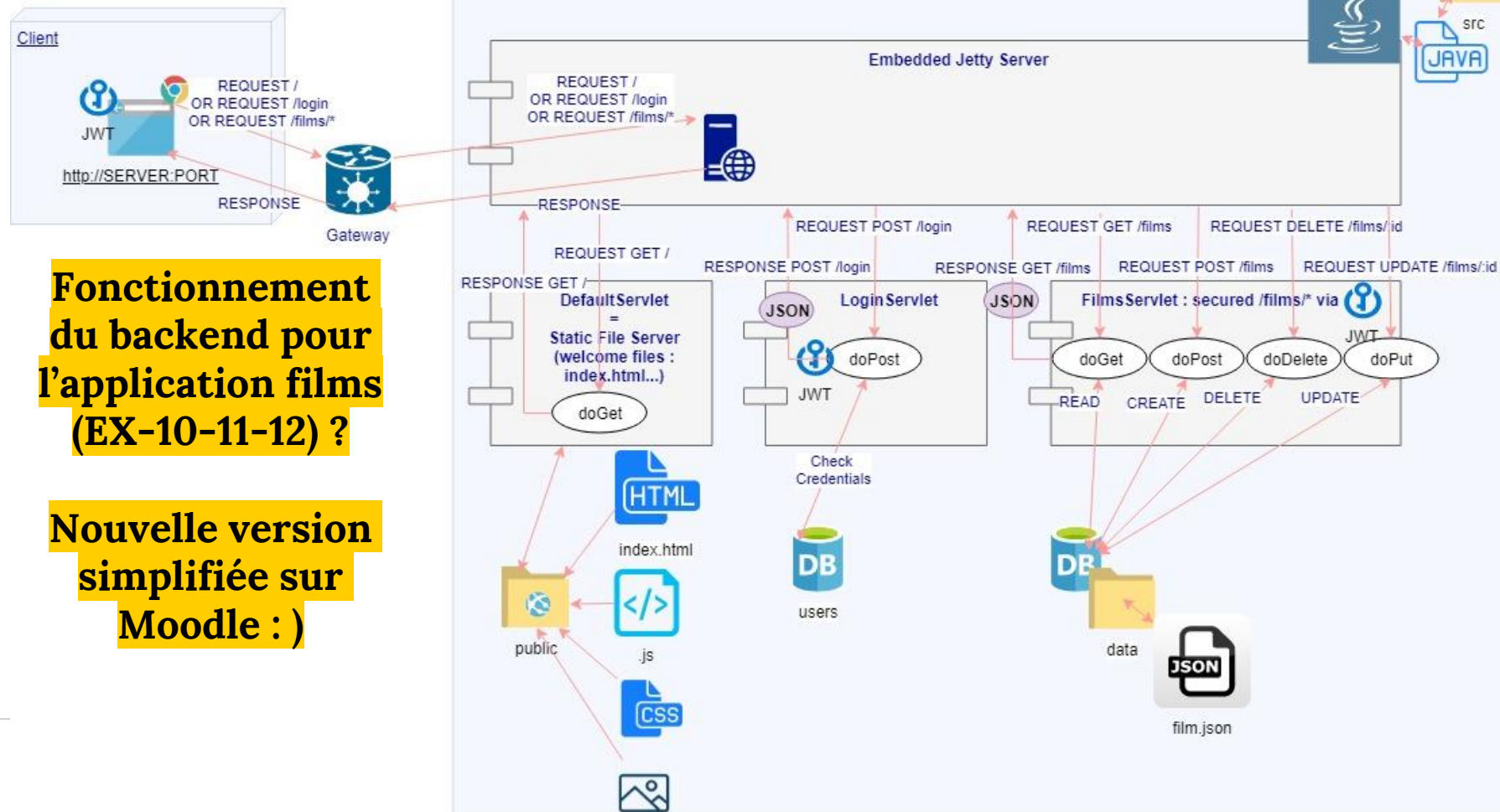# Remediation: backend Java & JS

What is the backend Java ? Why ? ... ?

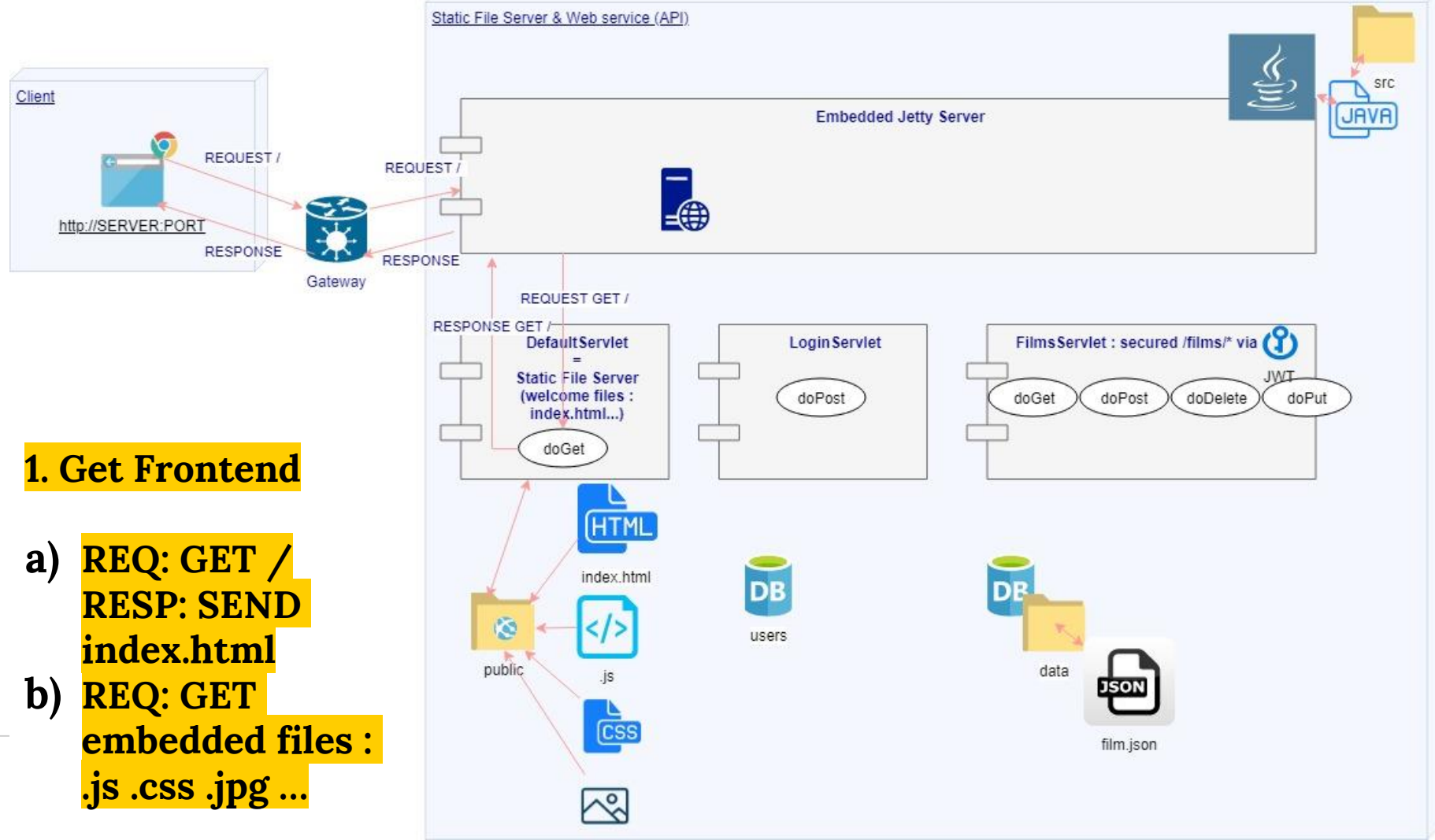Fonctionnement du backend pour l'application films (EX-10-11-12) ?

Nouvelle version simplifiée sur Moodle :)

Once upon a time, there was a SPA, a Java backend and other things

JS

Let's hear a story first...

Static File Server & Web service (API)

Client
http://SERVER:PORT

REQUEST /
RESPONSE

Gateway

REQUEST /
RESPONSE

Embedded Jetty Server

src
JAVA

REQUEST GET /
RESPONSE GET /

**DefaultServlet
=
Static File Server
(welcome files :
index.html...)**
doGet

LoginServlet
doPost

FilmsServlet : secured /films/* via
JWT
doGet doPost doDelete doPut

HTML
index.html

public
.js

CSS

users

data
JSON
film.json

1. Get Frontend
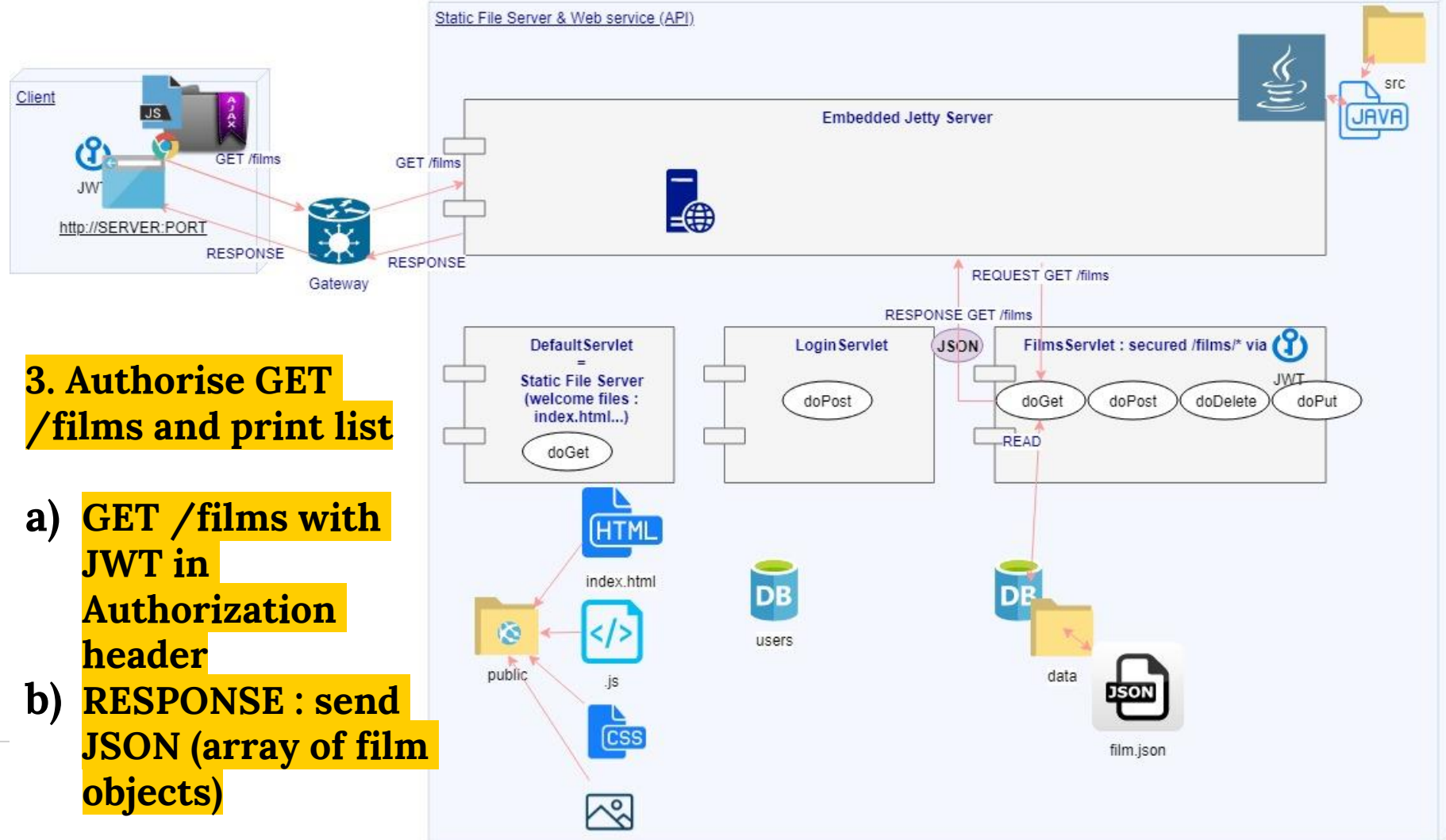
a) **REQ: GET /
RESP: SEND
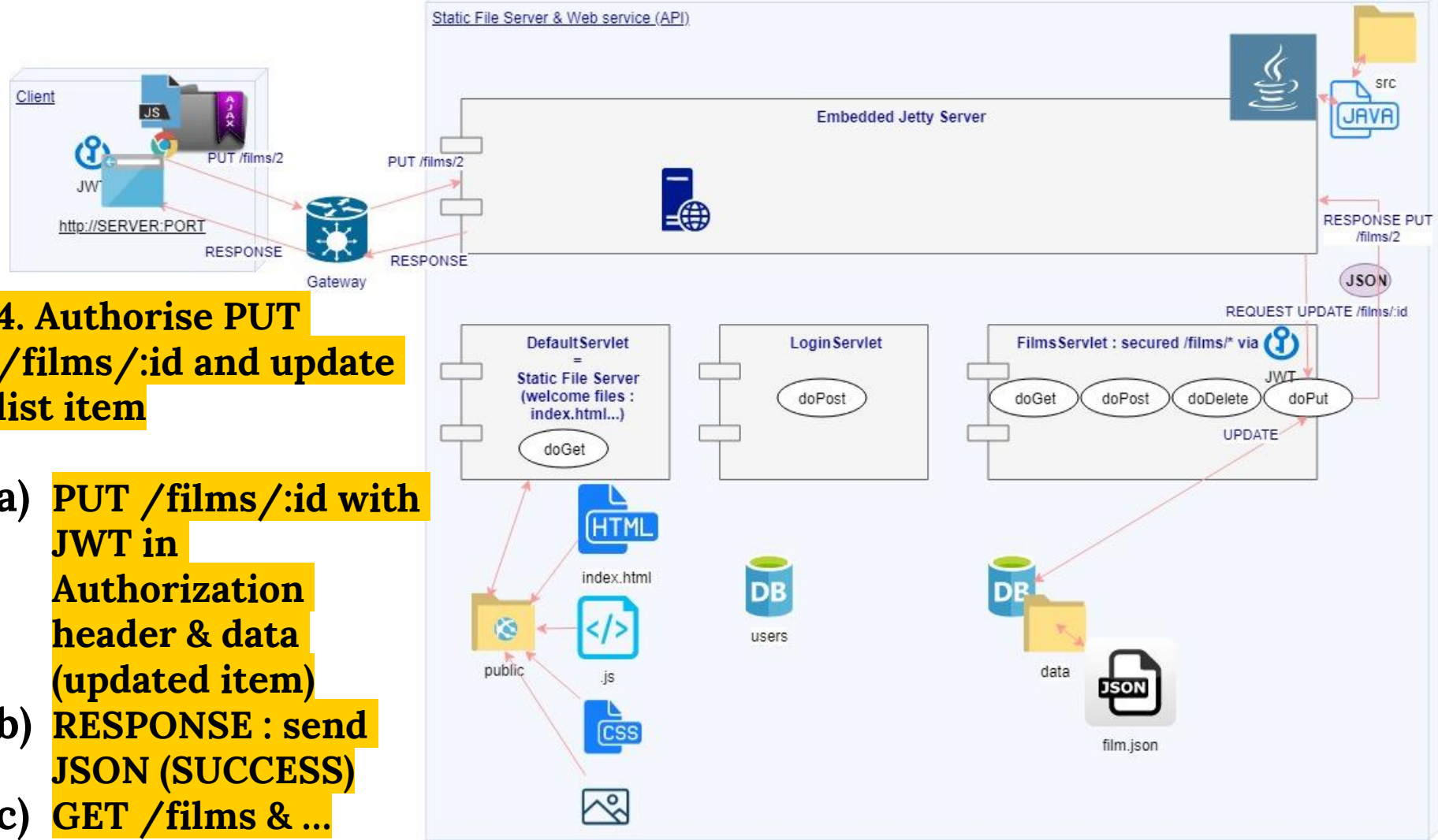index.html**
b) **REQ: GET
embedded files :
.js .css .jpg ...**
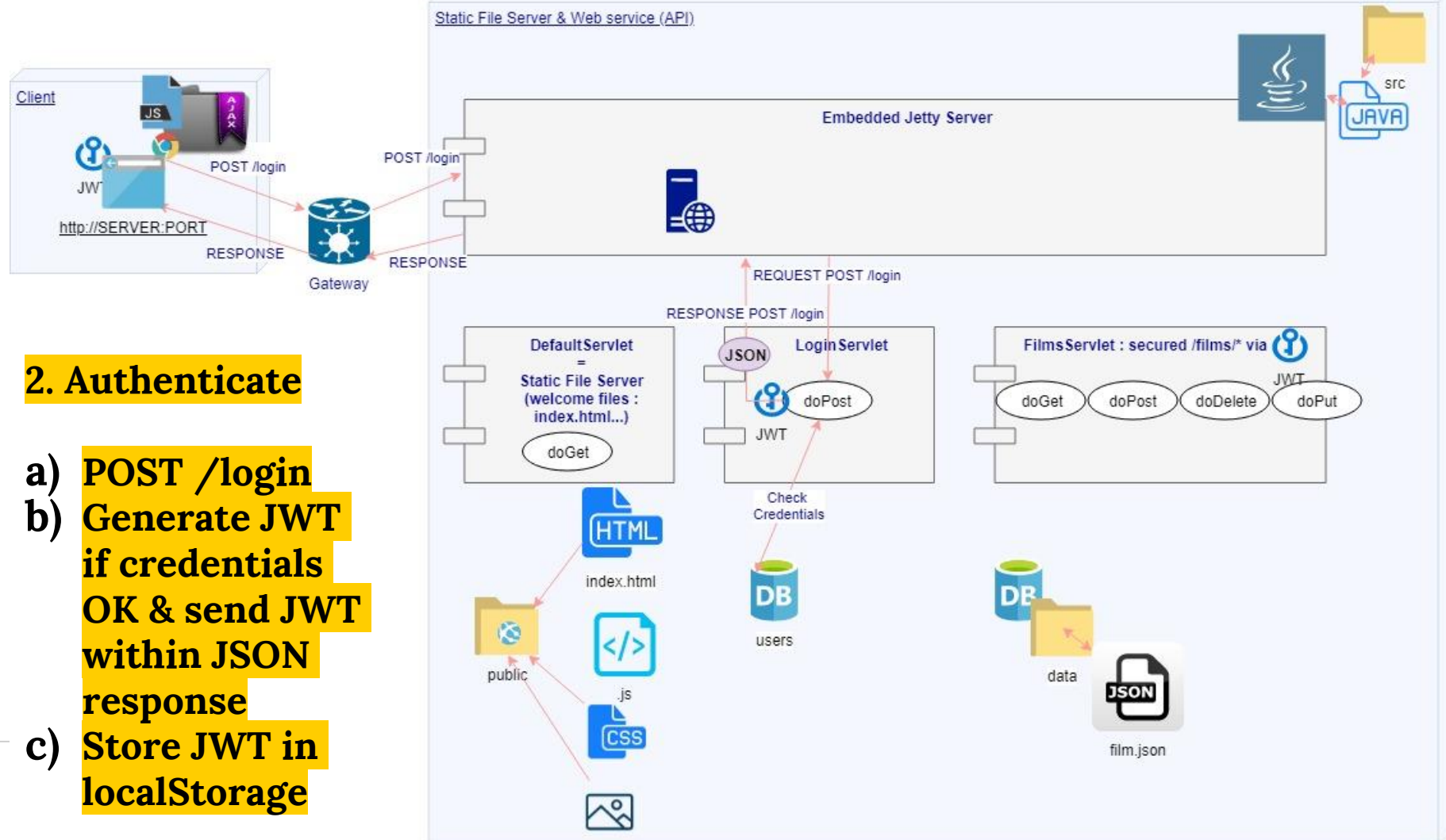
2. Authenticate

a) POST /login
b) Generate JWT if credentials OK & send JWT within JSON response
c) Store JWT in localStorage

3. Authorise GET /films and print list

a) **GET /films with JWT in Authorization header**
b) **RESPONSE : send JSON (array of film objects)**

Static File Server & Web service (API)

Client

JWT

http://SERVER:PORT

PUT /films/2

RESPONSE

Gateway

PUT /films/2

RESPONSE

Embedded Jetty Server

src

RESPONSE PUT /films/2

JSON

REQUEST UPDATE /films/:id

DefaultServlet = Static File Server (welcome files : index.html...)

doGet

LoginServlet

doPost

FilmsServlet : secured /films/* via

JWT

doGet   doPost   doDelete   doPut

UPDATE

index.html

public

.js

CSS

users

data

film.json

4. Authorise PUT /films/:id and update list item

a) **PUT /films/:id with JWT in Authorization header & data (updated item)**
b) **RESPONSE : send JSON (SUCCESS)**
c) **GET /films & ...**

Q&A Session

What could be clarified for you?

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