



Design a middleware library



Design a route handler

Q₂ Are we looking for any db interactions?

No

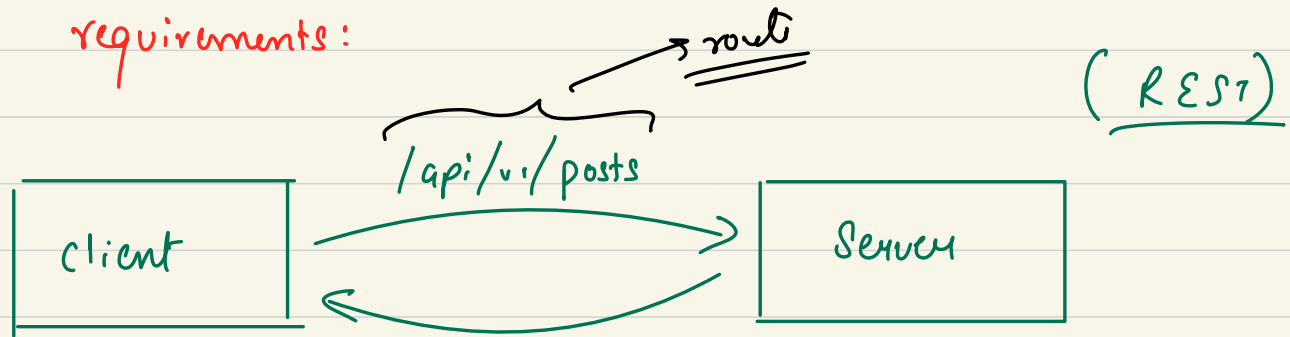
Q₃ Are we looking to setup REST API's for comm??

No, (console based is ok)

Qⁿ Are we looking for class impl or feature impl
is also reqd?

Class structures are preferred.

feature requirements:



→ Route handlers should be taking the incoming request
and validating the request body

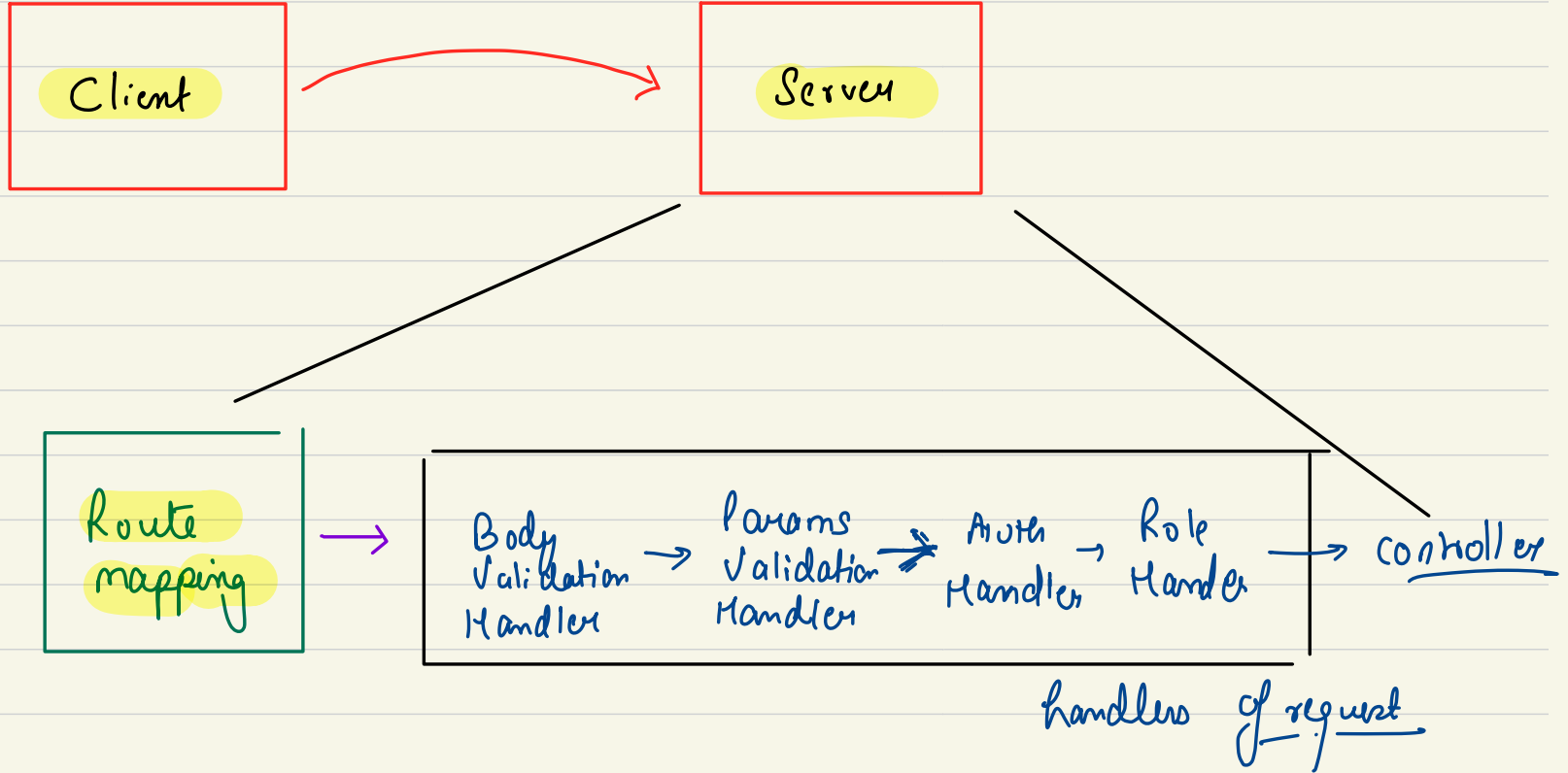
→ Route handlers should be able to validate request params.

→ Route handlers after validating body & params should be capable of doing Authentication.

→ Once auth is done, route handlers can also do authorization.

→ If the user is authorized then we continue to access the controller layer.

→ Some route handlers might be in specific order & some might not.



Route mapper is a module that is responsible for mapping the incoming http req to it's corresponding handlers

== assume we have a single handler func?

handler (Request req) {

- validate body
- validate params
- auth
- authorization
- controller

}

Direct violation
of SRP.

→ an improvement would be to put all these logics into separate funcⁿ

→ More preferably in separate Classes.

Note → a route handler is capable of modifying request object before next handler gets it.

→ a handler should be capable of retrying the req midway without calling remaining handlers.

→ every handler should be able to execute some logic & call the next handler expected.

the logic might be executed before or after
calling the next handler.

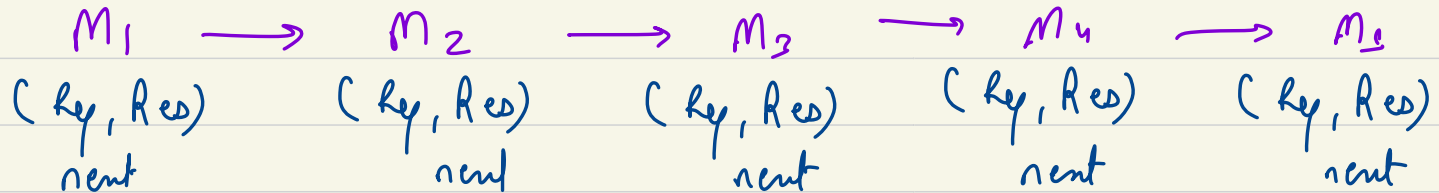
→ handler arrangement can be diff for diff routes

→ In most common terminologies, we call these route
handlers as middlewares / interceptors / filters etc

↓
Most common
term

→ express.js

middleware are chain of functions where each function has access to the Req, Res & the next function in chain. (all like structure)



→ Create an OR based filter.

→ category

$(C_1 \rightarrow C_2 \rightarrow C_3 \rightarrow C_4 \dots)$

→ Design pattern which helps in implementing
middlewares.

↳ CHAIN OF RESPONSIBILITY
(COR)

every handler

logic

access to the
next handler