

Handlers, Services & Repositories

Are common layers used to separate responsibilities in backend application design.

Handlers:
Receive http request
Deserialize the data
Extracts parameters, body, headers
Validation & Transformation
Calls the service
Returns http response

Services:
Implements application rules
Coordinates operations
Makes decisions

Repository:
Read/Write data from/to storage
Abstract persistence logic

Middleware

Is code that runs between the incoming request & the handler.

Every API endpoint has a handler & many perform the same operations which is redundant.

Middleware centralize common logics & do:

- ① Authentication
- ② Authorization
- ③ CORS handling etc.

One thing to keep in mind, order of middleware is important because each explicitly passes control forward.

Request-Context

Is a place to store & access informatio about the current request anywhere in request cycle.

A single request passes through many layers & some information is needed everywhere. Also, one layer can add extra pieces of information & others can access it.