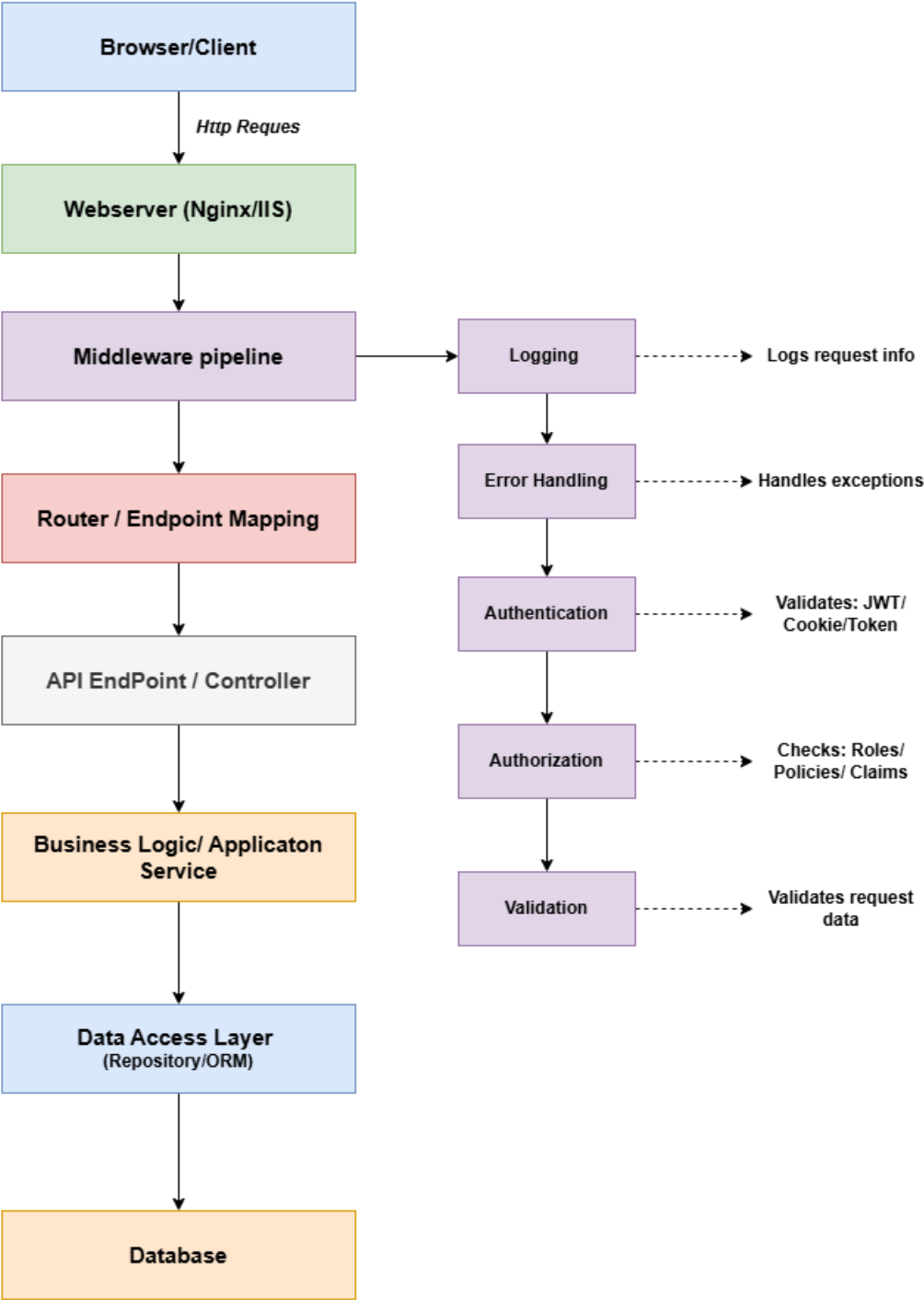
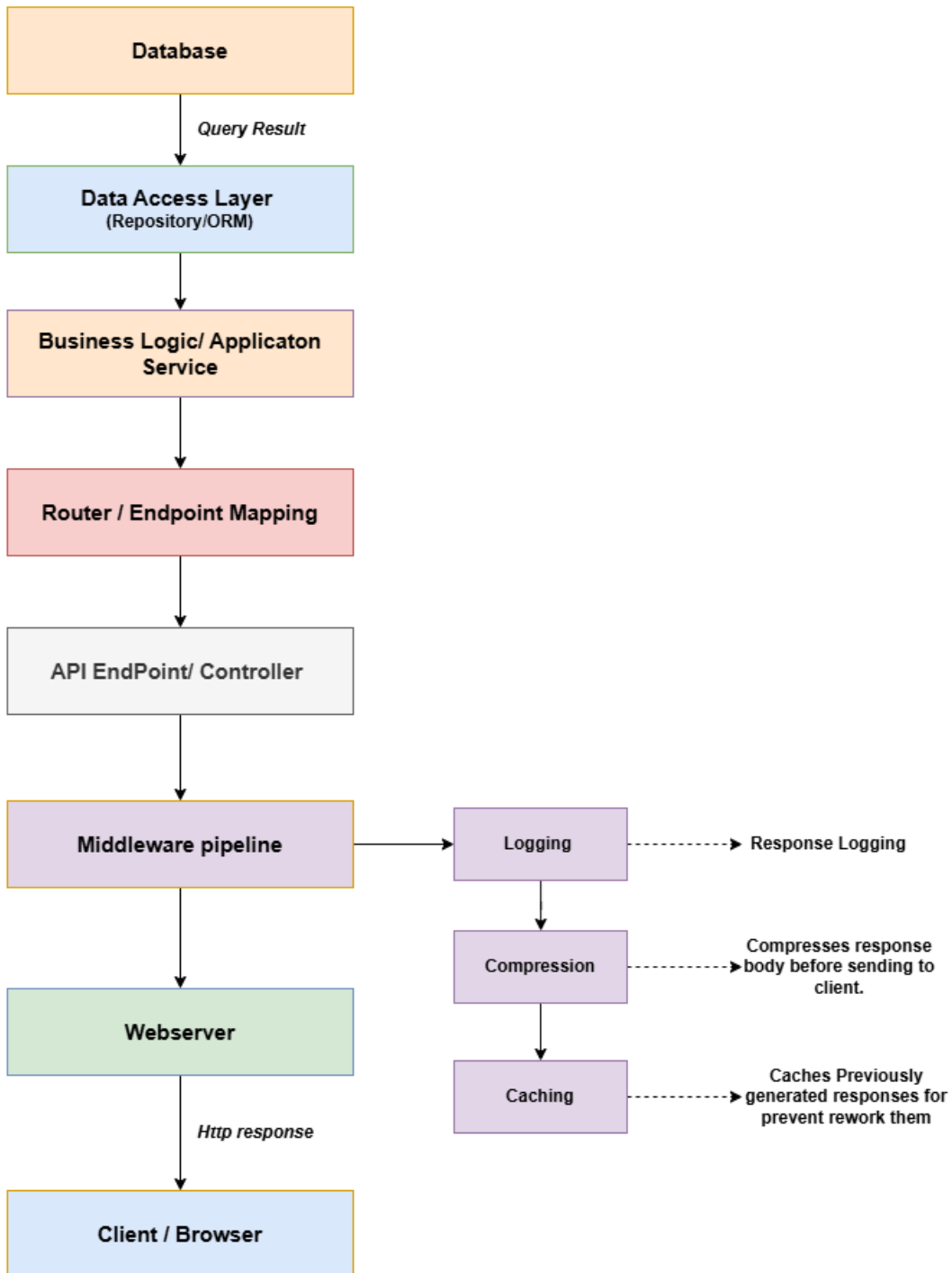


Web application Request-response flow

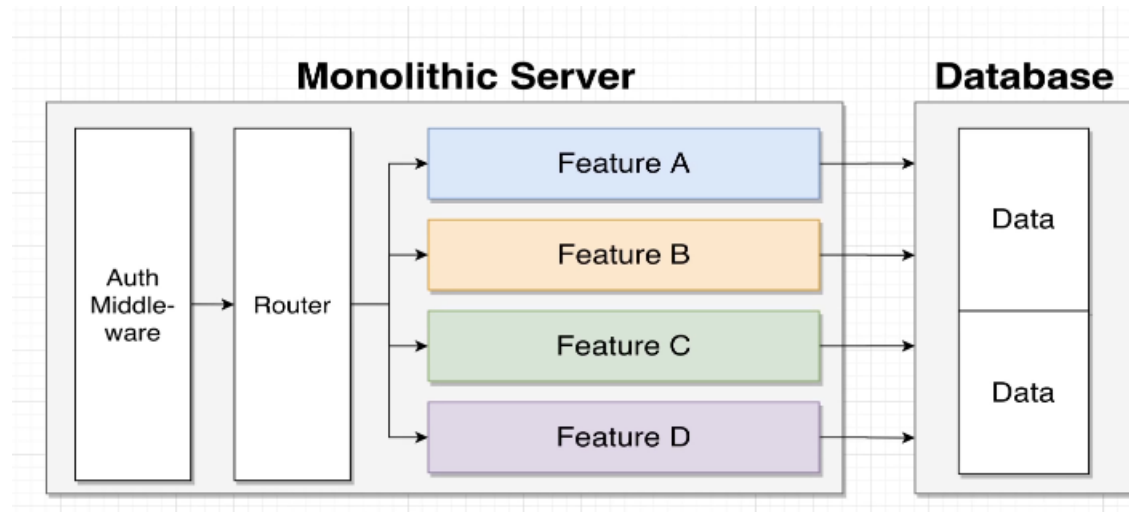
Http Request Flow



Http Response Flow



Monolithic Architecture



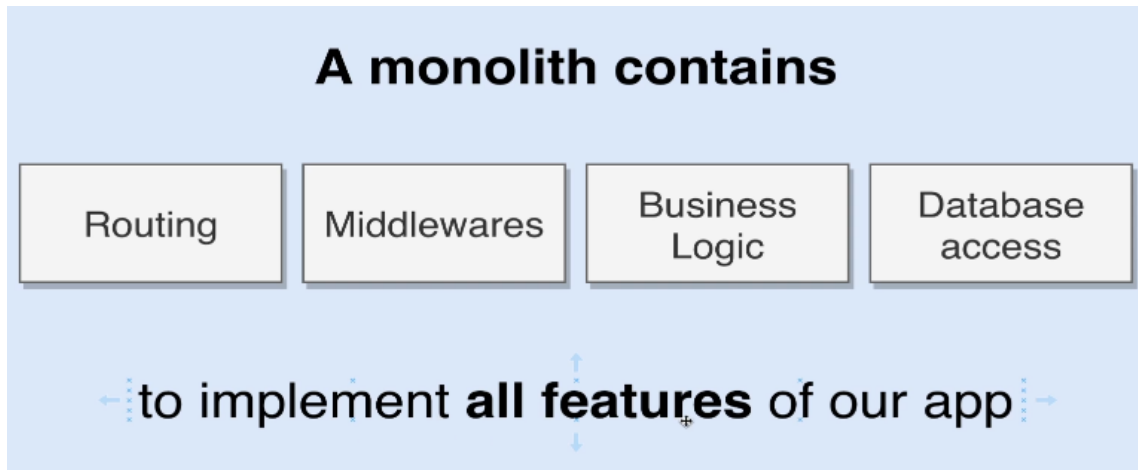
- All codes of the application implements inside a single codebase and deploy entire codebase as one discrete unit.

Let's see following scenario-

- Client send a request from browser
- That request flow through our application as follows-
 - o Preprocessing middleware e.g., authentication checking, validation checking, logging etc.
 - o Then goes to router
 - o The router decides the feature based on the request
 - o Feature read/write to database
 - o After successful read/write database send a response
 - o That response comes to user browser

- In Monolithic architecture –
 - o All routings
 - o All middleware
 - o All business logics
 - o All database access

Those are require to implement for all features of our application in a single codebase

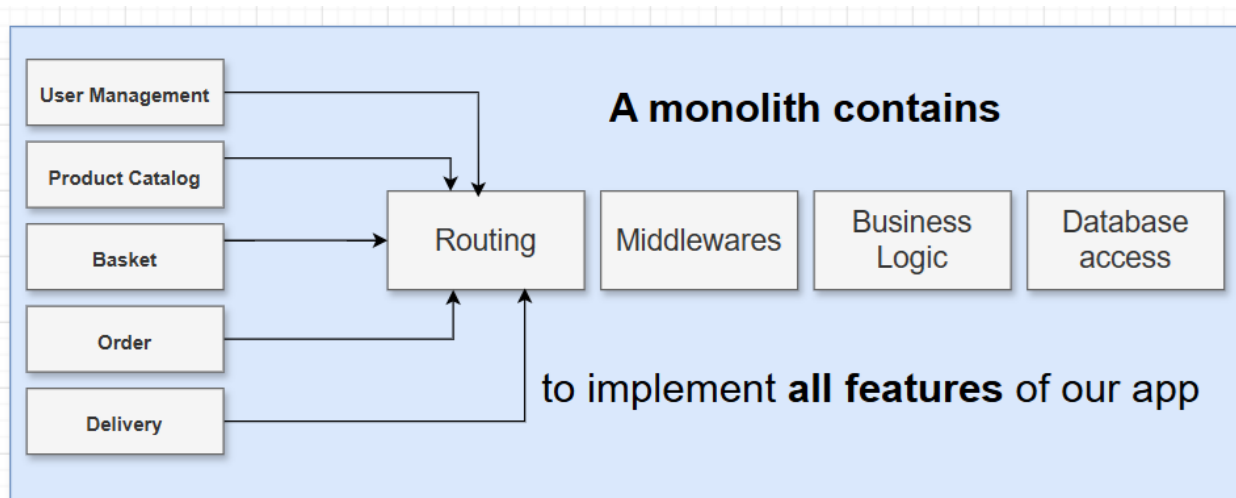


Example

We have a e-commerce web application that contains

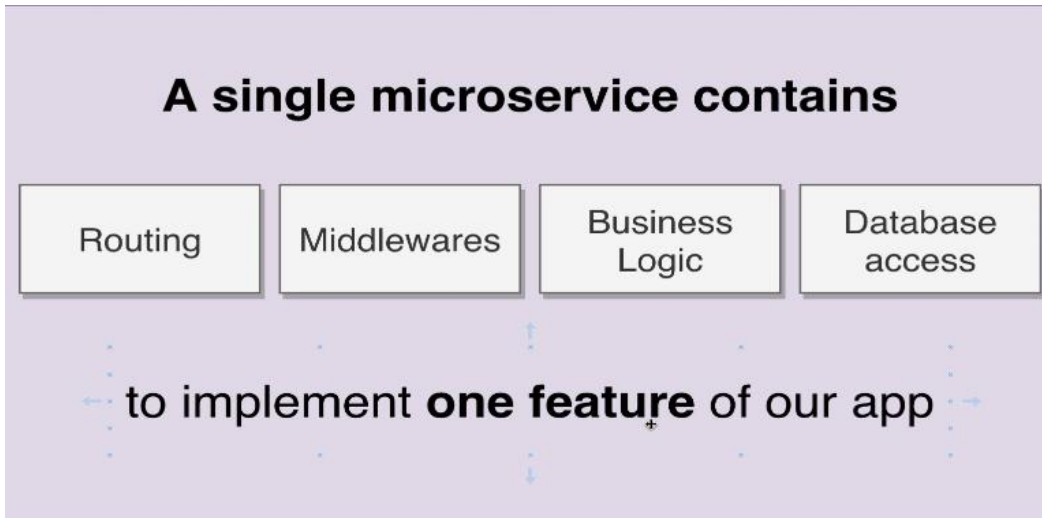
- User Management
- Product Catalog
- Basket
- Order
- Delivery

All the middleware, routing. Business logic, database accesses will be in a single codebase.

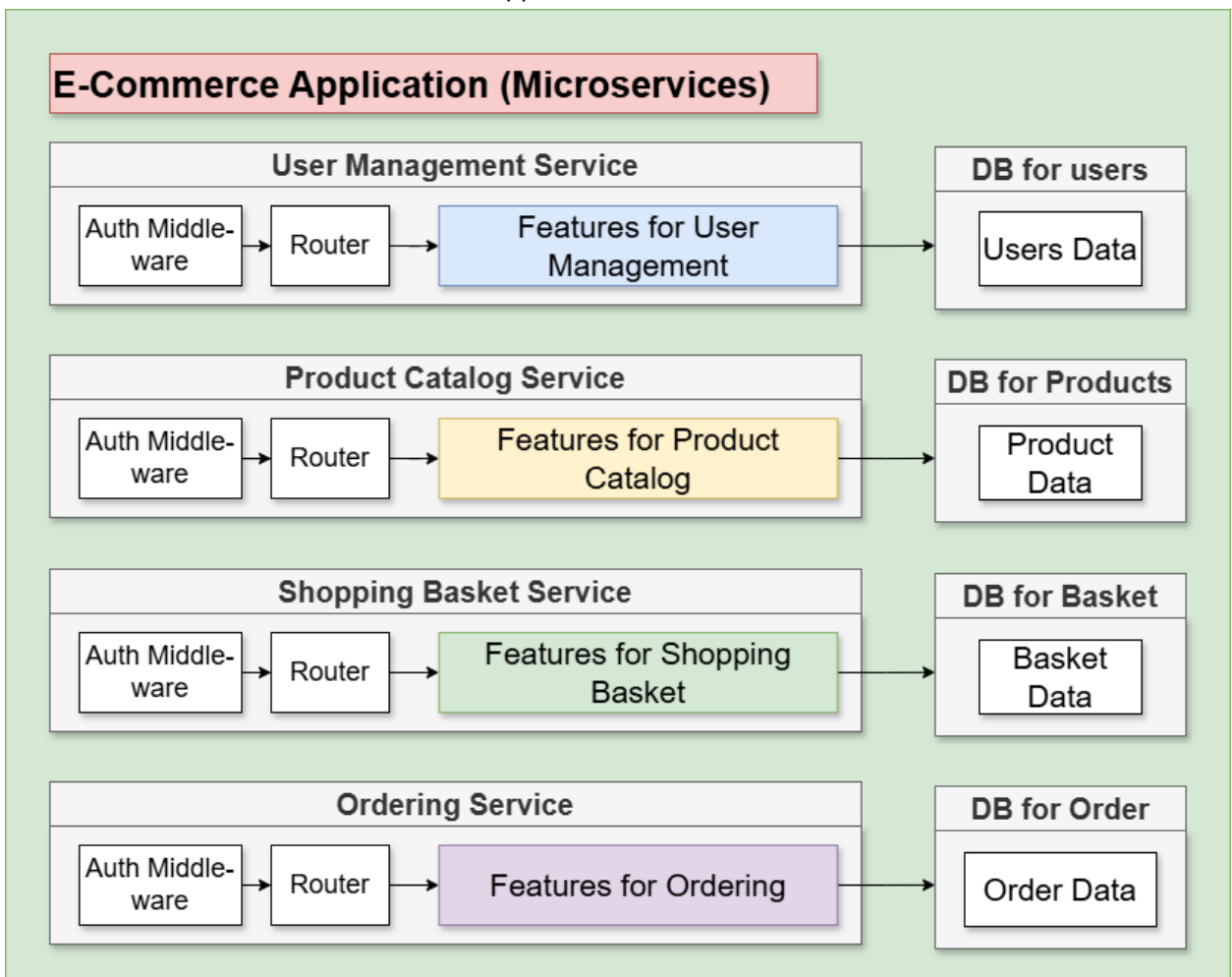


Microservices

- Microservices breaking down the large application into different services
- Each services are implement as a single unit.



- Combination of all services becomes our application.



As per above diagram-

- We split-up the entire application into different smaller and well manageable personalized services.
- Each of these services are entirely self-contained i.e., each of these services has its own-
 - Middleware
 - Router
 - Features
 - Database

And all these together make the service work correctly.

- If for any reason any services fails therefore rest other portion of our application will work fine.