An API gateway sits between our microservices and the clients who want to access these services. The API gateway provides a unified interface to the clients and hides implementation details of the services Order-service, Coupon-service, and Promotion-service.

Advantage :

1. Single point of entry to your system.

2. handle topics like permission handling, API, security, Authentication, Policies (rate Limits,allow-listing)

Protocol translation

Analytics

Billing

caching

Disadvantage :

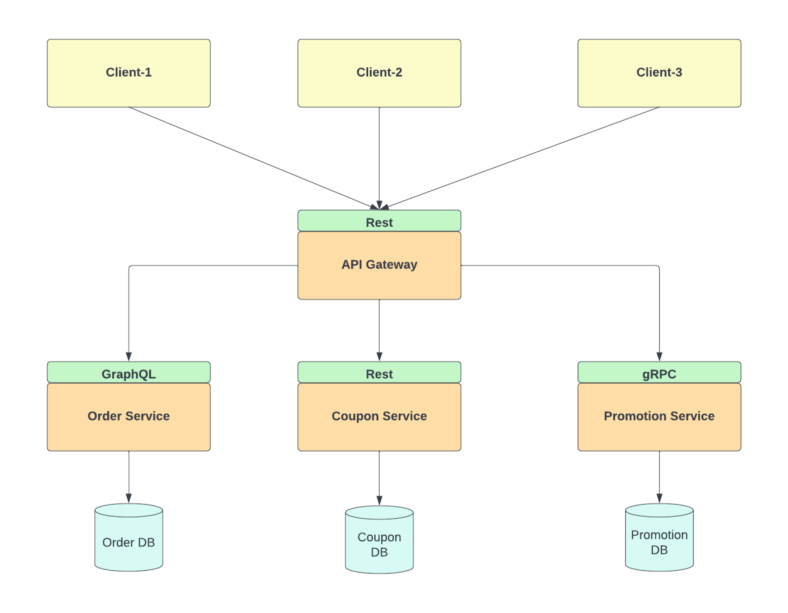
API gateway isa piece of software in our system that has to be developed, deployed and maintained.

It may become bottleneck in 2 different ways

API gateway must be highly scalable.

There will be little impact on request latency as possible.

Development speed is slowed sown , every Microservice to be exposed through API gateway.



Diagram

Description automatically generated