**Query (API Composition & CQRS)**

**1. Which Queries Are Candidates for Composition?**

Query composition makes sense when a client (e.g., frontend or API consumer) needs data from multiple services to fulfill a single request.

**example in our services:**

* As a user show me all my booked terms + payment status  
  Requires:
  + Term data from the TermService
  + Payment data from the AccountingService

**2. Where Could CQRS Be Needed?**

CQRS (Command Query Responsibility Segregation) is helpful when read and write operations have different performance, scalability, or consistency requirements.

**example in our services:**

* If users have high flexibility in registering, canceling, payment, etc. where they can do many different read/write operations even after doing the initial registration

Requires:

* + Create/update/delete terms, payments, etc.

Would make our services unnecessarily complex since our services don’t require multiple read/write operations in a short span of time.