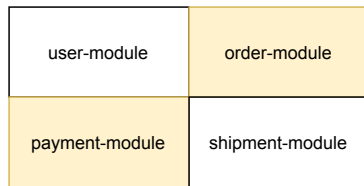


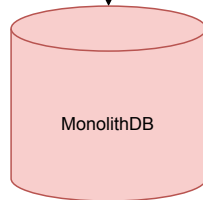
Ecommerce-Application**Monolith MyEcommerce Application**

100, 000 requests



1. Single Code Base (huge)
2. Single Deployable File (huge)
3. Single Database (huge)
4. Single Language(Java/Dotnet)

100, 000 requests



Pros:

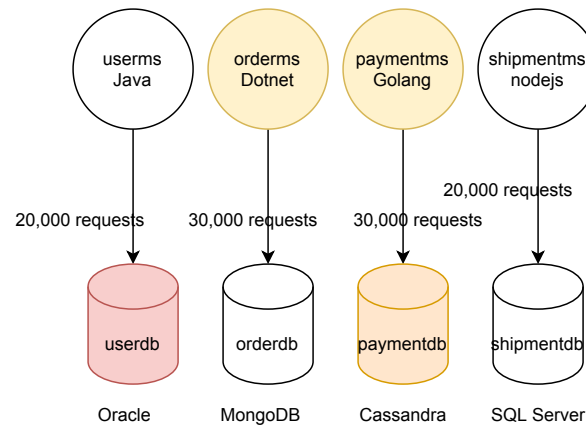
1. Scalability (Cherry Pick)
2. Performant DB
3. Resiliency
4. Agile
5. Security

Cons:

1. Distributed Data (Complexity)
2. Latency
3. Cost (Infra + Resource)
4. Management(Comlexity)

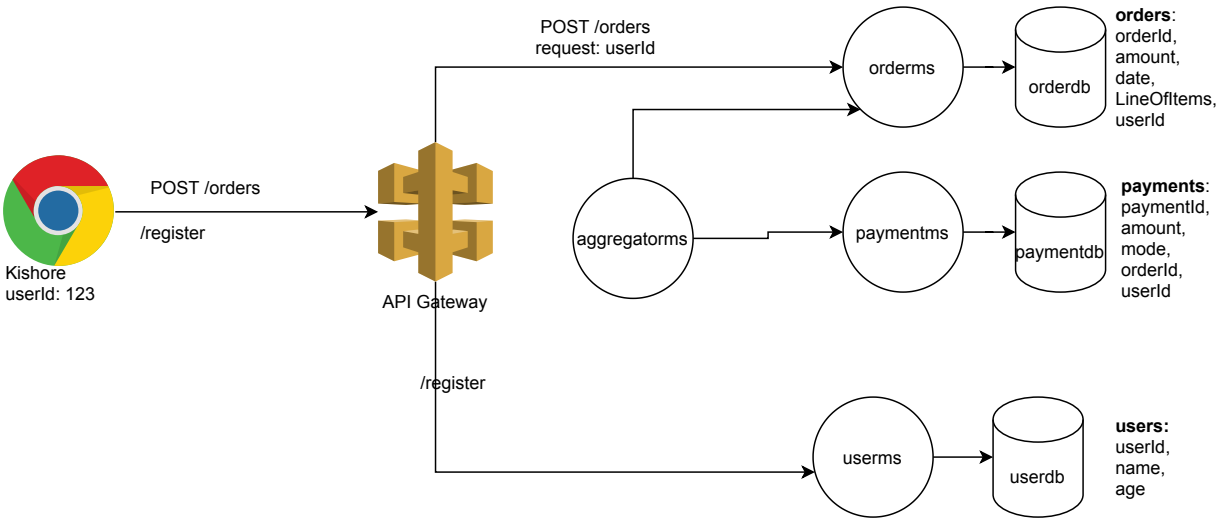
Microservice Application

Collection of Standalone Miniature Applications

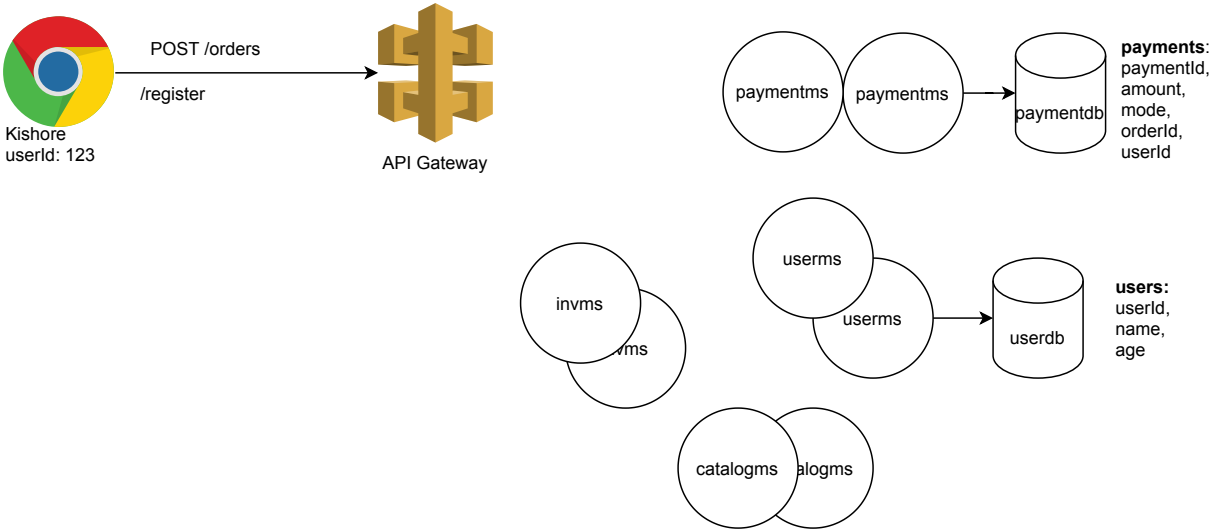


1. users Code Base
2. users Deployable File
3. users Database
4. users Language(Java/Dotnet)

Database Per Service



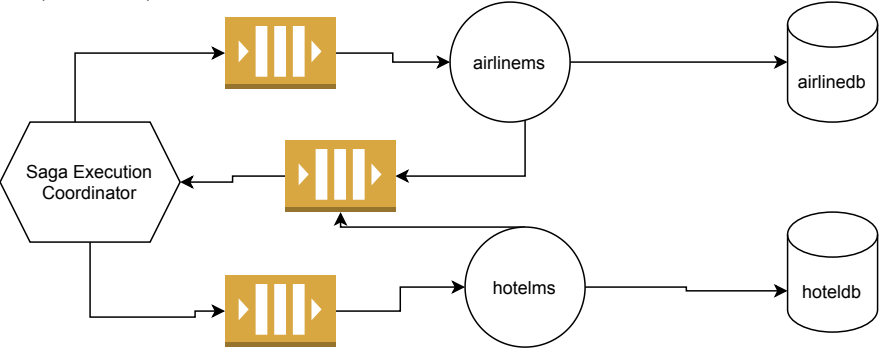
Database Per Service

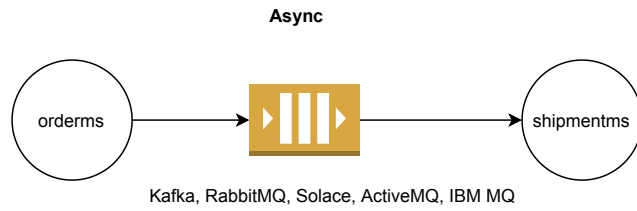
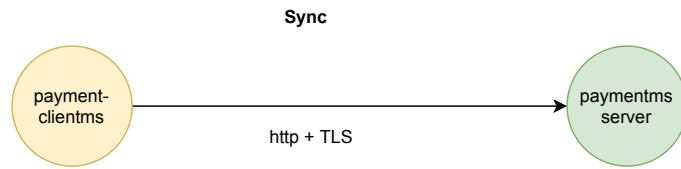


Transaction Management (SAGA)

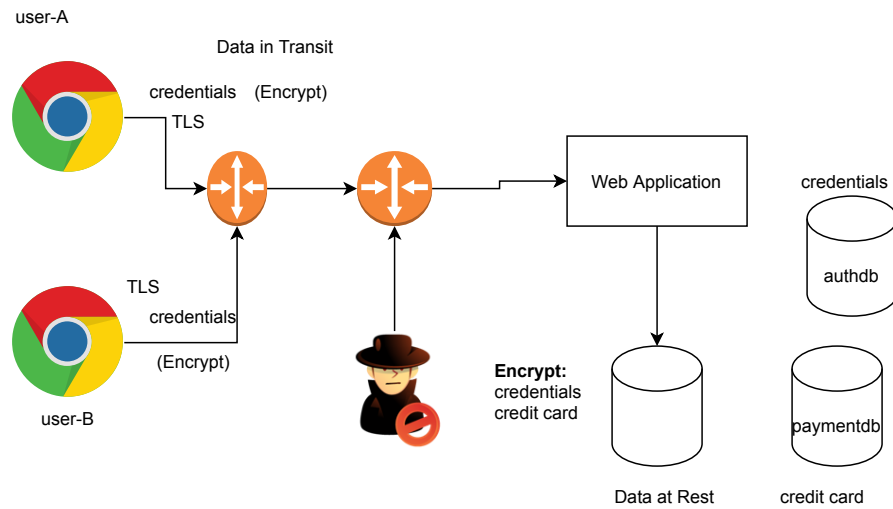
booking-state: airline-booked
booking-state: airline-cancelled

- 1. Book
- 2. Compensate (if hotel failed)

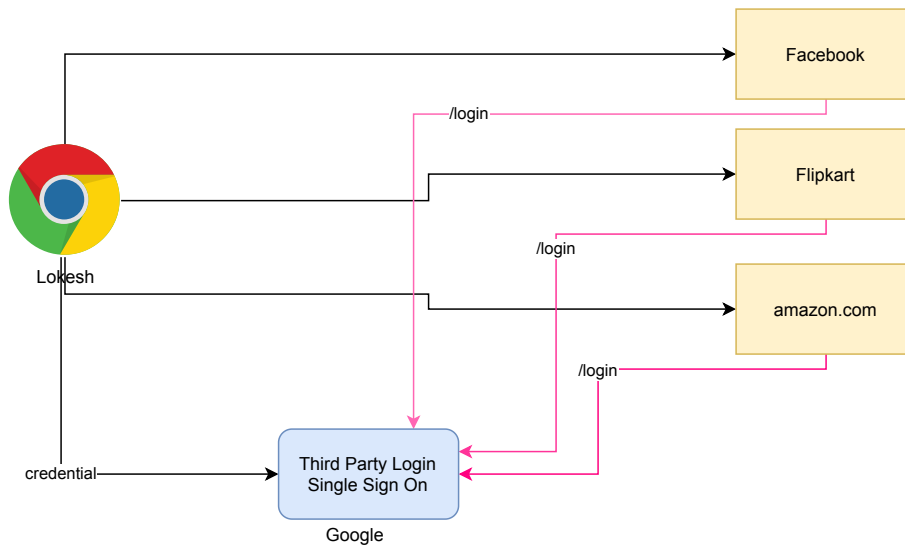


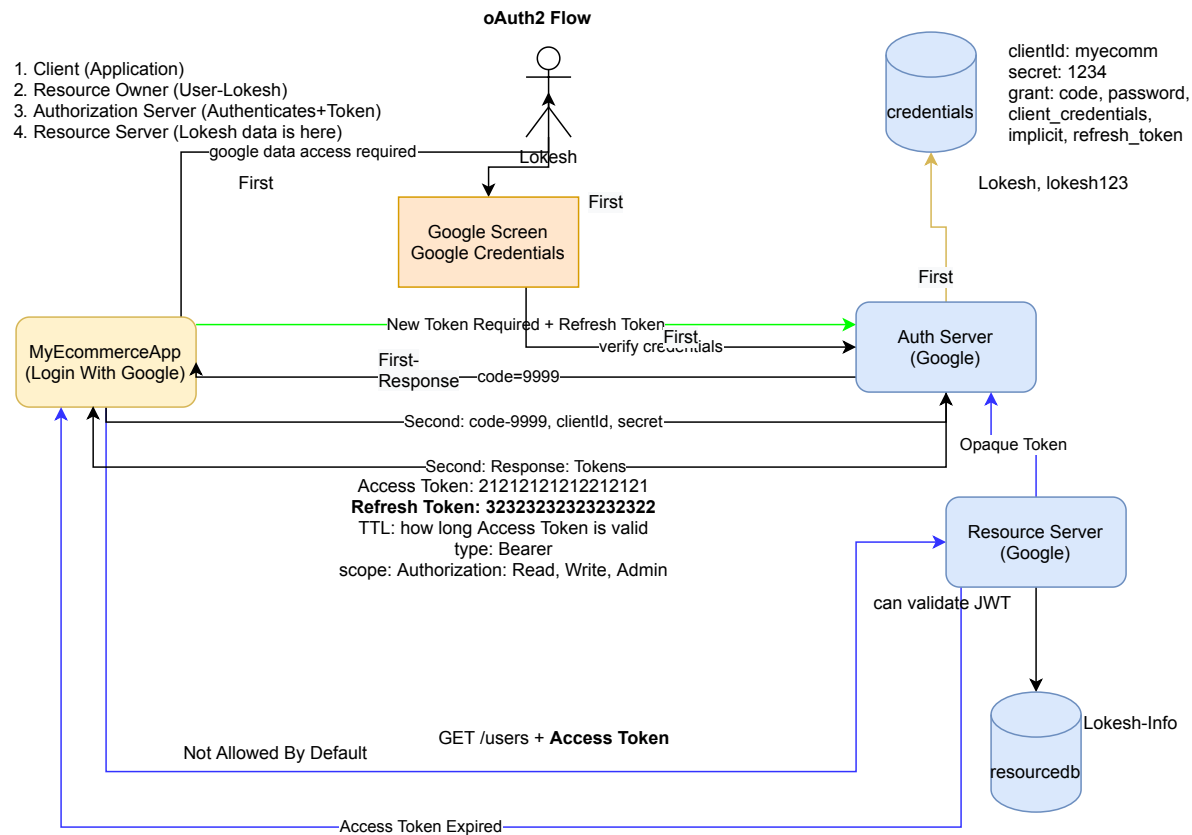


Security (Authentication + Authorization)



OAuth2



**Grant Types:**

1. Authorization Code
2. Implicit (Not Recommended)
3. Password(Resource Owner)
4. Client Credentials (No Human User)
5. Refresh Token

