### Contributions

### participate in system design, database design, Technology selection

### Broker Service: Involves interacting with airlines

Framework: SpringBoot

Deployment: Docker, Kubernetes

Including unified exception handling, customer-defined exception, API version control.

1. Flight Data Service: store and update flights in database from airlines

* Using distributed MQ RabbitMQ to get flights automatically from airlines in a resilient, scalable, and loosely-coupled way.

1. Book Ticket Service: create order and pay for the order

* Using multi-threading and REST to request newest flight information from airlines, achieves high efficiency and scalability and flexibility.
* Using distributed MQ RabbitMQ achieves order expired cancellation, improves efficiency and fault tolerance compared to polling the database.