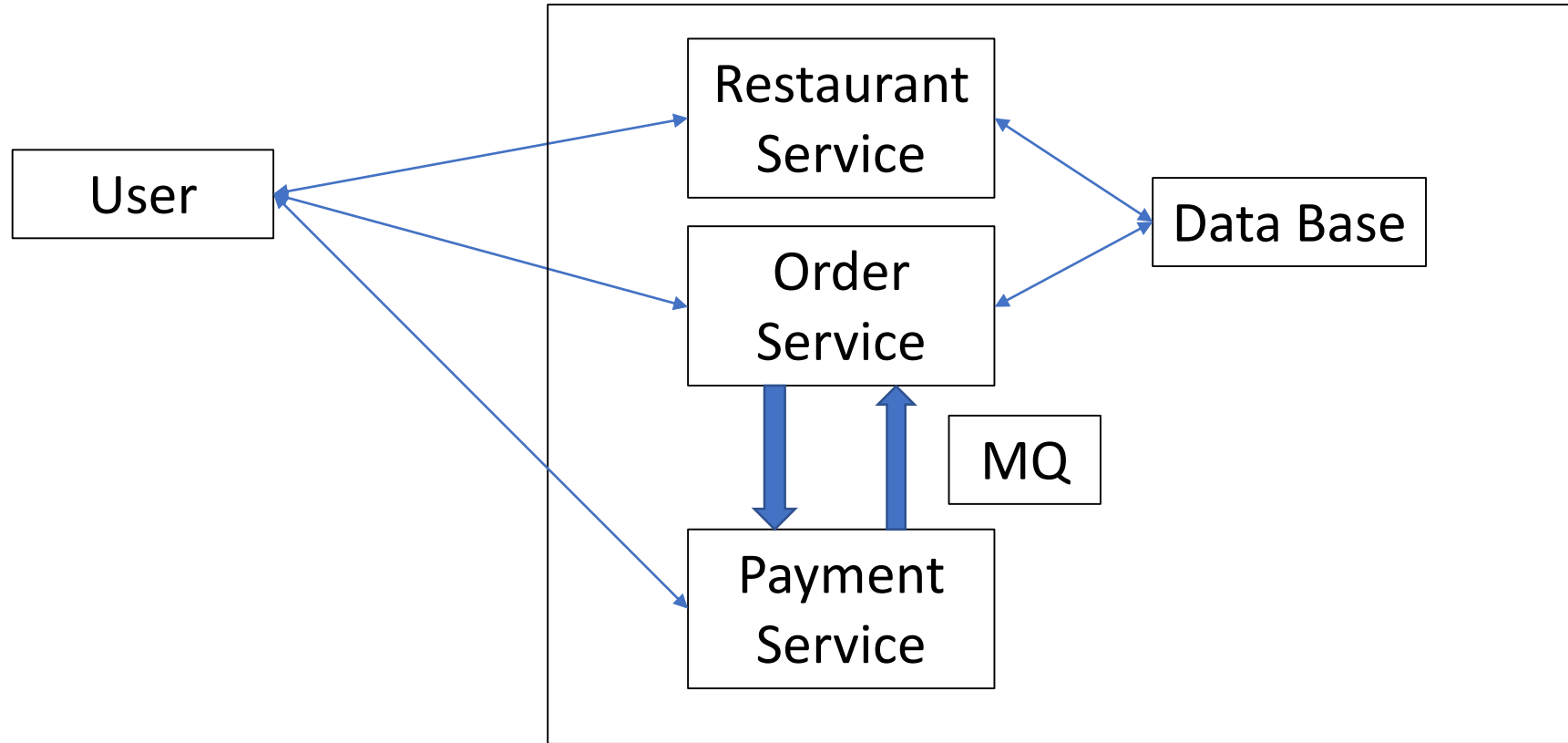


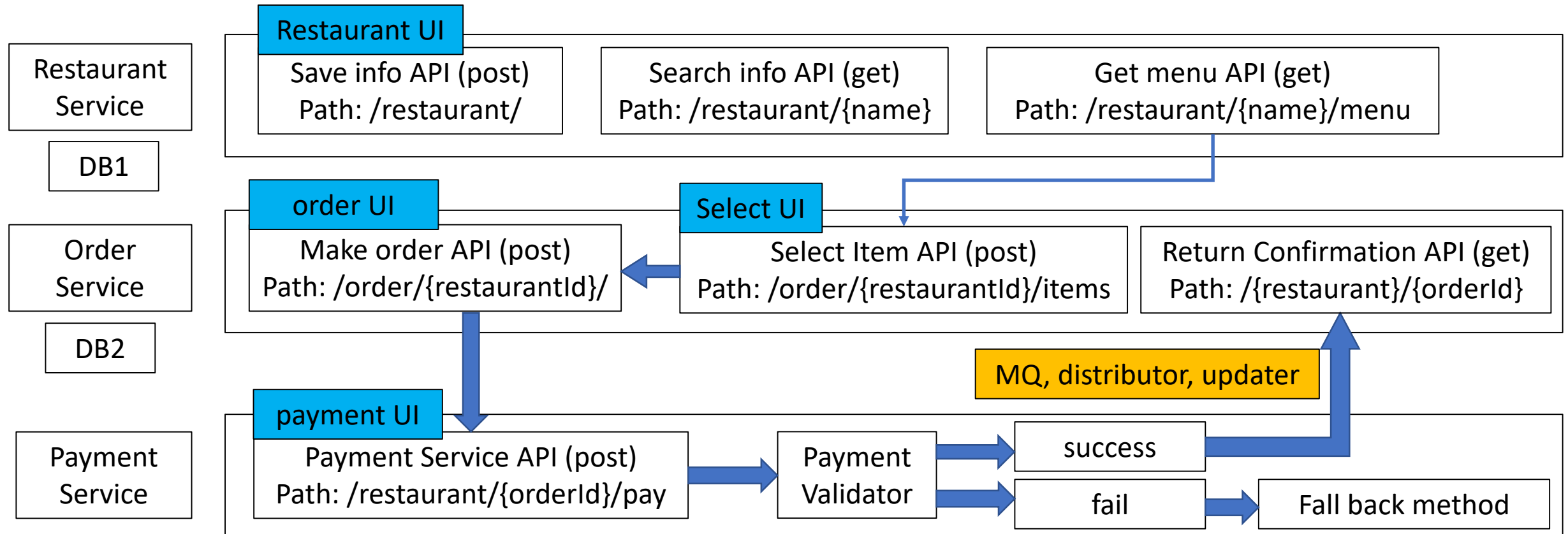
Requirement

- Functional
 - User search restaurant based on restaurant name
 - User order food by choosing items from menu and assign quantities, able to leave note and fill in address
 - Order contains note on diet restrictions, delivery address
 - Order payment, fill in credit card number, expiration date, security code
 - If payment made, return payment ID, timestamp, completed order, add delivery time
- Non-functional
 - Microservice
 - SQL or No-SQL DB
 - REST API
 - Unit tests, integration tests, MVC tests
 - One place to handle payment error

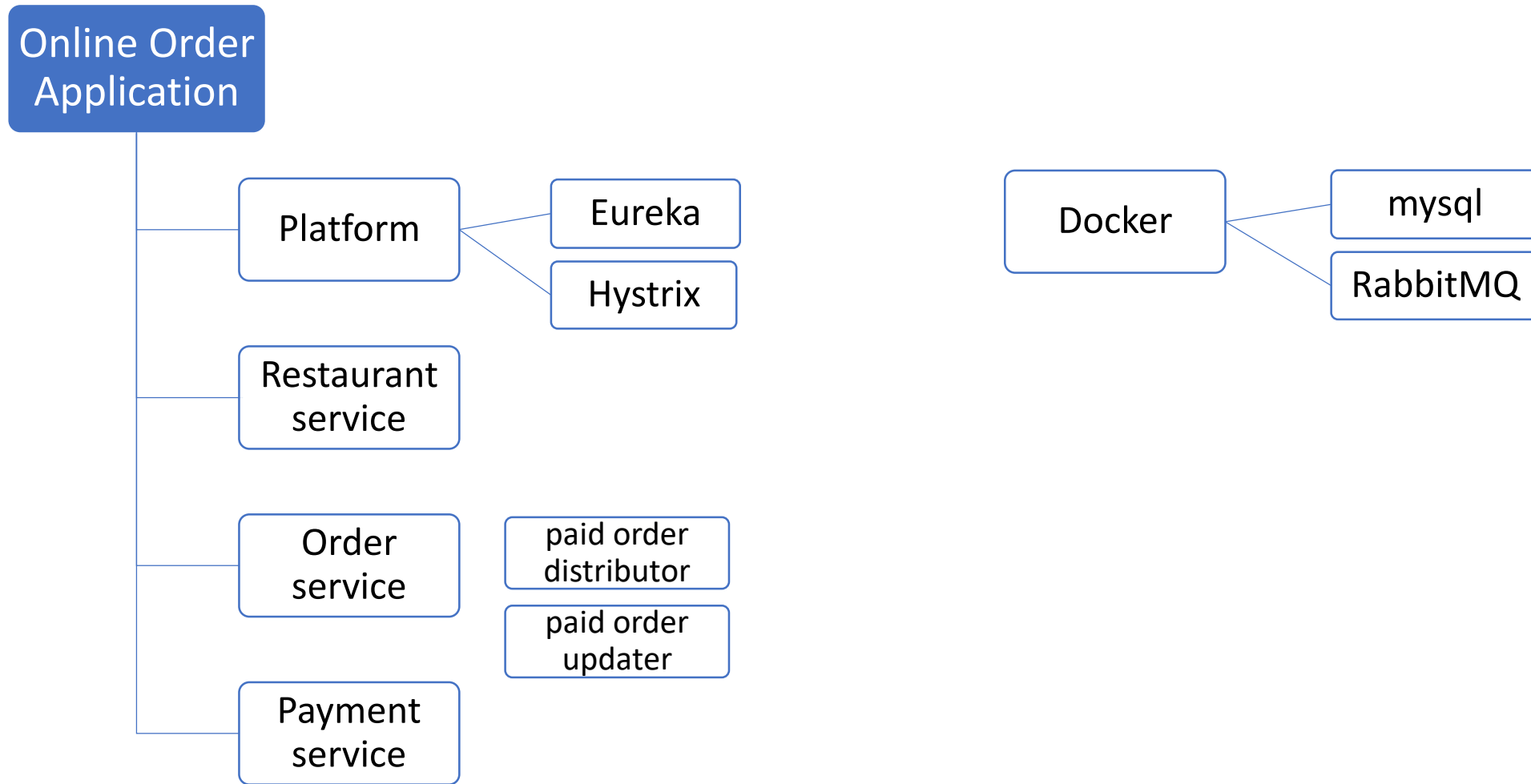
Architecture



Microservice API design and Working Infrastructure



Project structure



Test Cases

➤ Unit tests:

- Restaurant Service: POST restaurant infos; POST food items; GET restaurant by name; GET menu
- Order Service: Input quantities and POST order; GET paid order with delivery time
- Payment Service: Input and POST payment info
- Fall back method for failed payment

➤ Integration tests:

- choosing quantity UI -> post order
- Successful payment -> distributor
- distributor -> updater -> show confirmed order