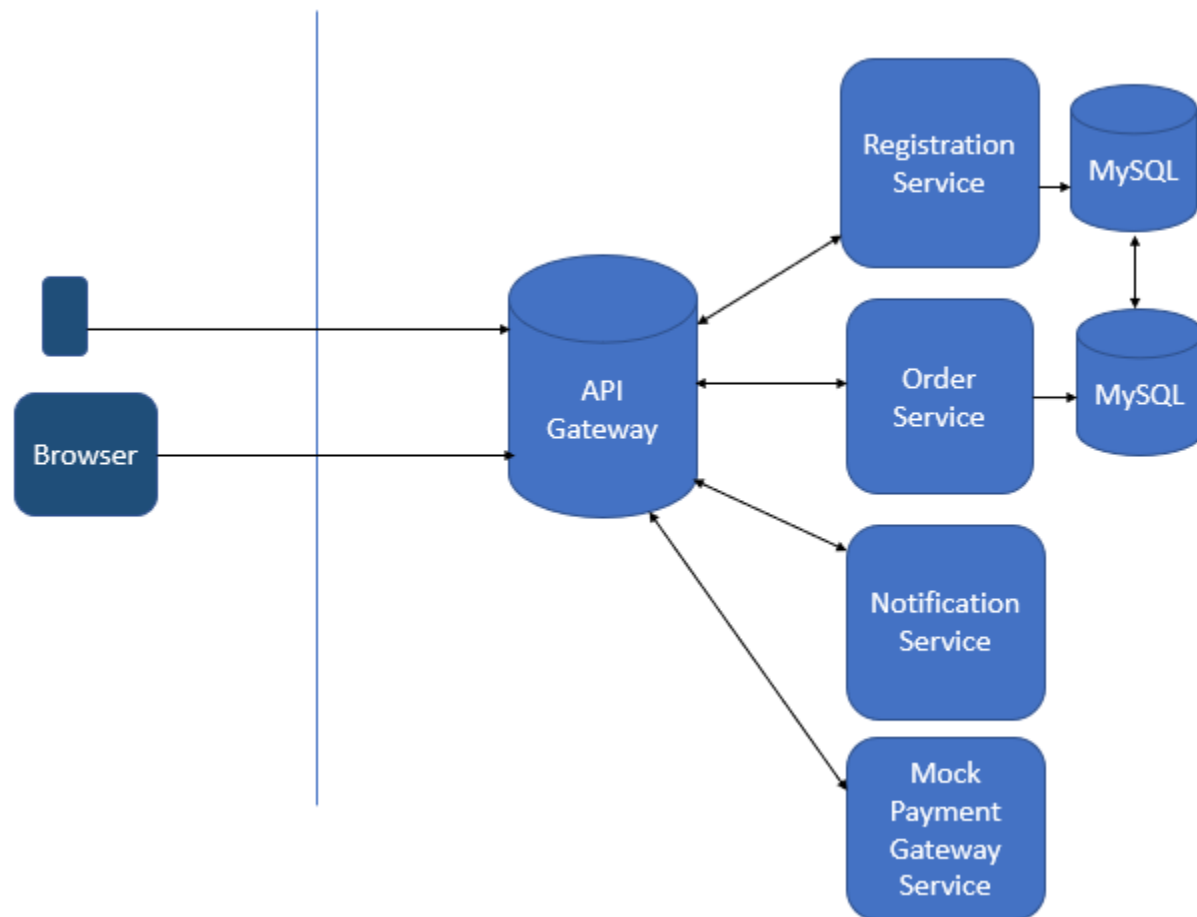


Team Name: **Chocolate**

Design Document for B2B Payments

Design Motivation: Scalability, Resilience, low latency, fault tolerance. BDD

Architecture View:



Microservices:

1. Registration service – Responsible for Authentication, Authorization, Business, User registration and adding /updating their details.
2. Order Service – Responsible for initiation orders, creating Invoice, payment processing thru 3rd party Gateways.
Note - The MySQL database in Order service replicate the tables with named Business and User.
3. Notification Service – Responsible for Notifying the Suppliers, Retailers about the transaction completion/failures
4. Mock Payment Gateway Service – Responsible for providing a mock Payment Gateway service

Technologies: Angular, Spring Boot, MySQL

Application Work Flow:

1. Supplier Register to the ChocoPay system
2. Retailer Register to the ChocoPay system
3. Supplier Adds its Bank Account Info
4. Retailer Adds its Bank Account Info
5. Supplier creates Users & and creates Groups and adds users in Group
6. Retailer creates Users & and create Groups and adds users in Group
7. Retailer initiates an order to purchase Items from Supplier
8. Retailer connects to Bank Gateway and fills Bank details transaction
9. ChocoPay system generates Invoice
10. ChocoPay system sends notification to respected user group in both Supplier and Retailer Organization