



Microservices Architecture

**Prepared and Presented
By Team #1**

Afnan Sayed
20226014

Jana Abdallah
20226030

Afnan Baqais
20216049

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Agenda

1

Concept & Motivation Behind Microservices Architecture

2

How Microservices work

3

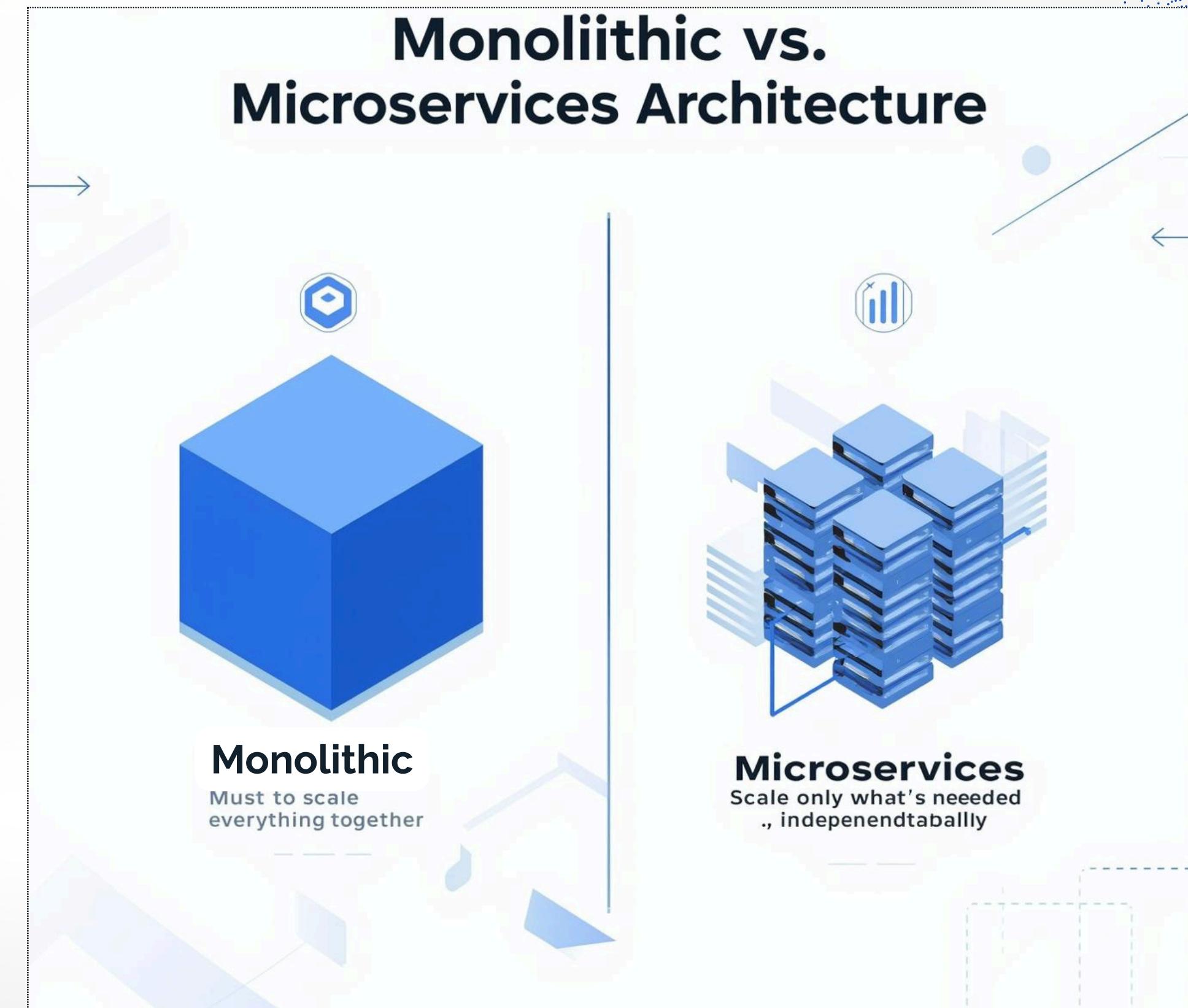
Integration and Communication Strategies Explored

4

Live Demo of System Functionality

Can We Scale Just One Part?

What if one part of the system gets heavy traffic, should we scale the entire app or just that part?



Fault Isolation

- **Monolithic:** One failure = total downtime
- **Microservices:** Each service runs independently, others keep working



Technology Freedom

Monolithic Architecture

One technology stack limits innovation.

Microservices Flexibility

Diverse tech stacks boost agility and growth.





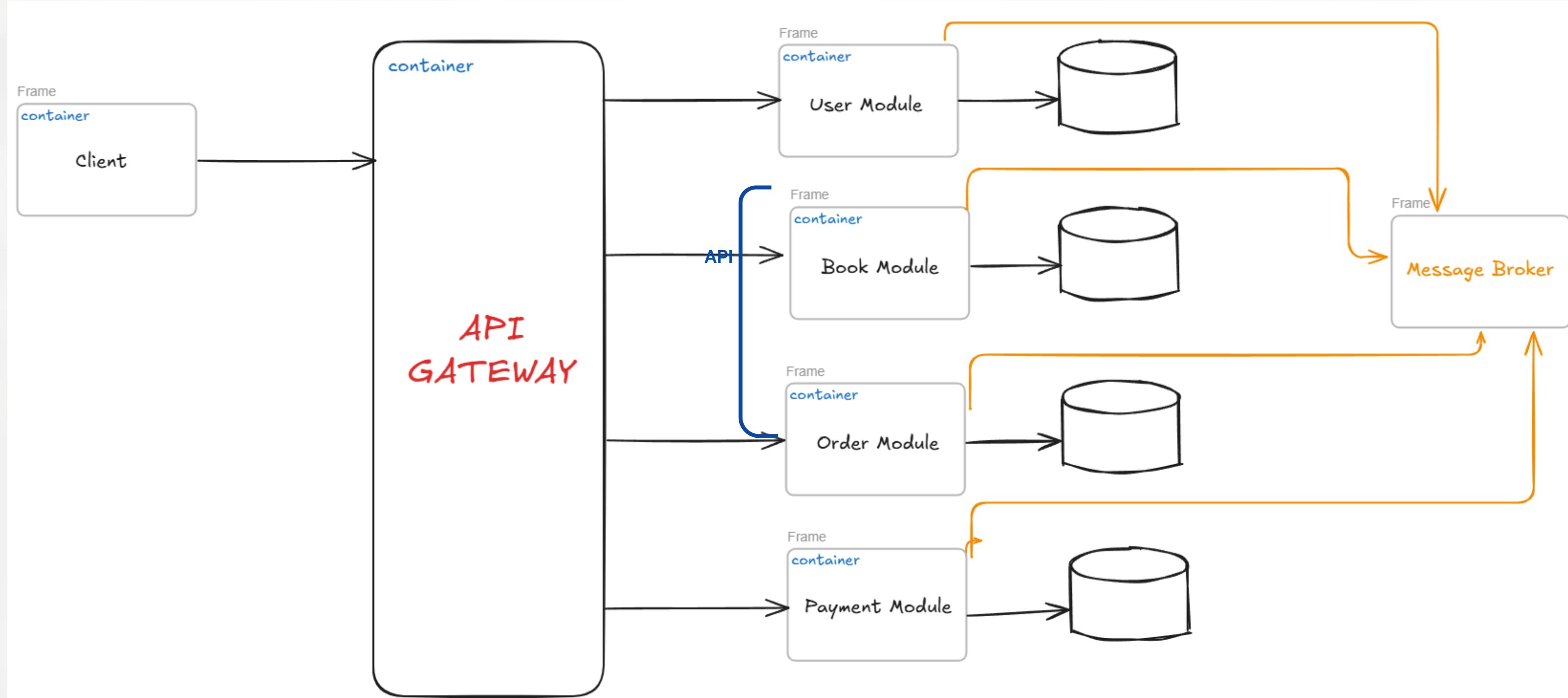
Importance of Containerization

Key Benefits for Microservices

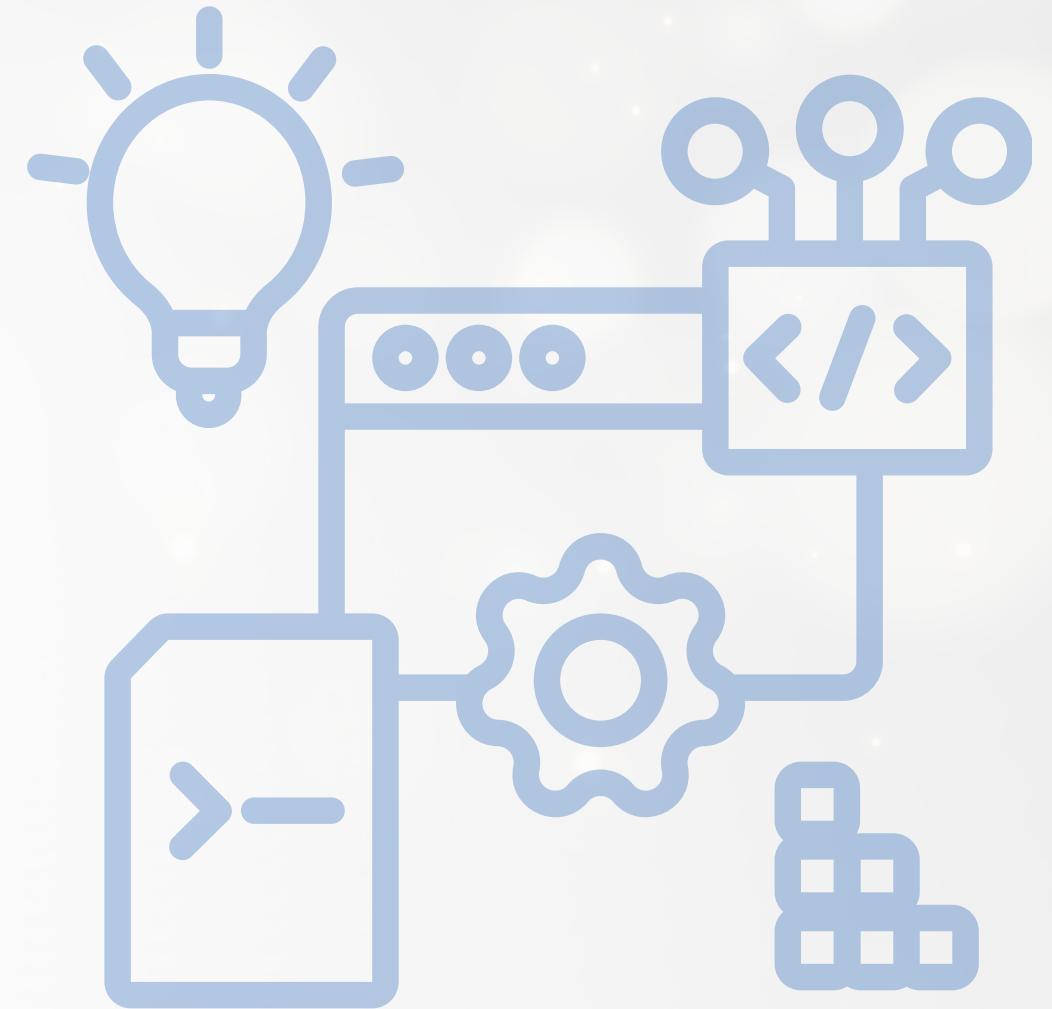
- **Isolation** of services enhances stability
- **Portability** across various platforms
- **Scalability** with orchestration tools

How it works?

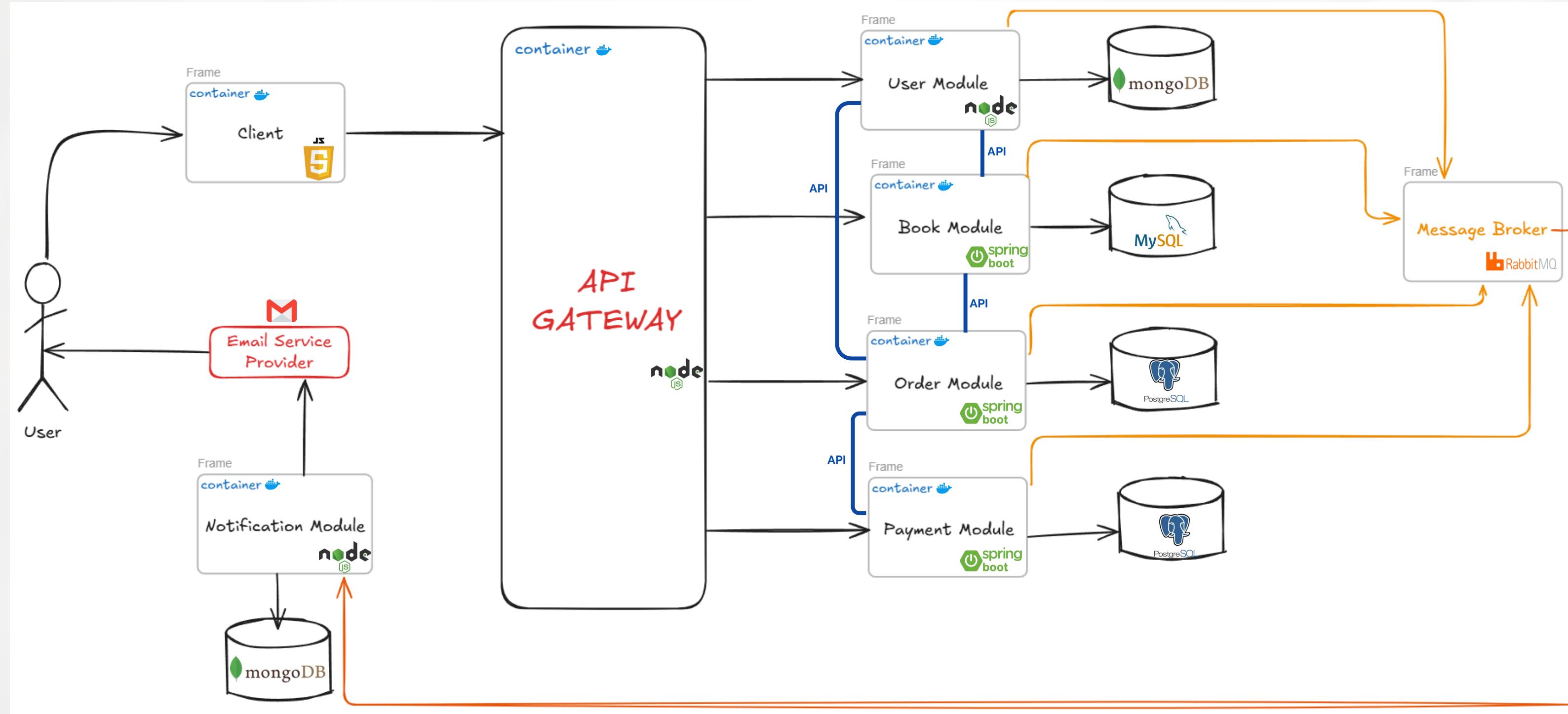
How Microservices Work



Integrations and Connections



System Architecture



Live Demo



GitHub Organization Link

Containing all the microservices repos and the powerpoint

Organization Link

