

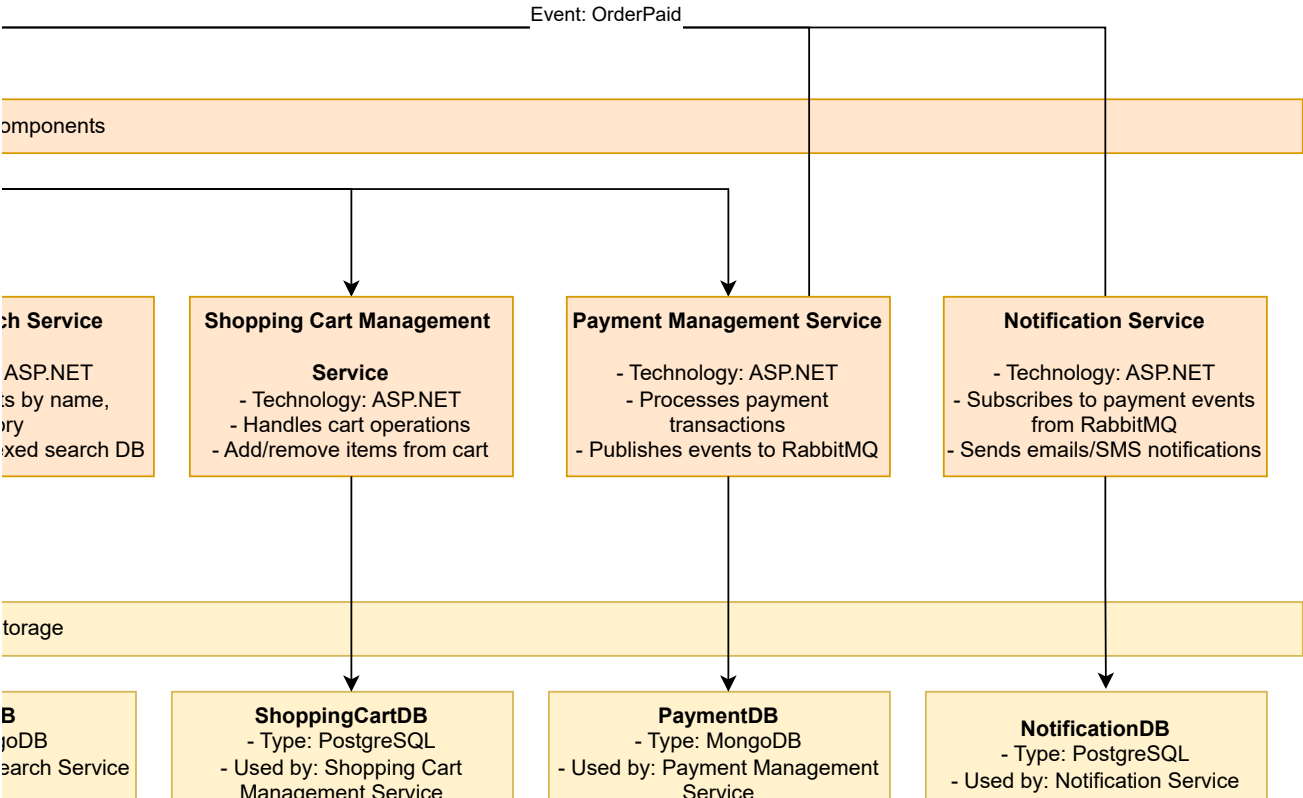
Use Cases

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/ Interfaces

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Broker)
Communication
Structure
Messaging



6. Security

JWT Token Authentication

- JSON Web Tokens used for secure user authentication
- Issued by: Authentication Service
- Validated by: API Gateway and microservices

Role-based Access Control (RBAC)

- Roles: Admin, Customer
- Access restrictions applied by: API Gateway and Admin Interface

Security Audit

- Sensitive data is encrypted at rest and in transit
- Regular security audits and penetration testing are conducted

7. Infrastructure

Kubernetes Cluster (AKS / EKS)

Hosts microservices and RabbitMQ
Provides scalability and orchestration

RabbitMQ Cluster

Deployed inside Kubernetes
Manages asynchronous messaging between services

MongoDB Server (Self-hosted)

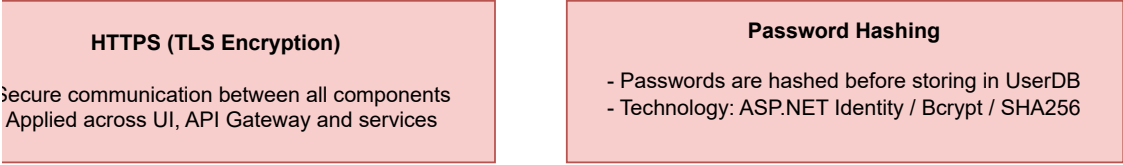
Stores non-relational data (e.g., SearchDB, PaymentDB)

Monitoring Tools (Grafana + Prometheus)

Tracks service health, uptime, and metrics



Security



Infrastructure

