# AmCart

## ECOMMERCE

# Assumptions

- Application will support multiple languages

- Responsive design for optimal viewing on various devices

- Website anticipates a large user base.

- It exclusively supports web applications

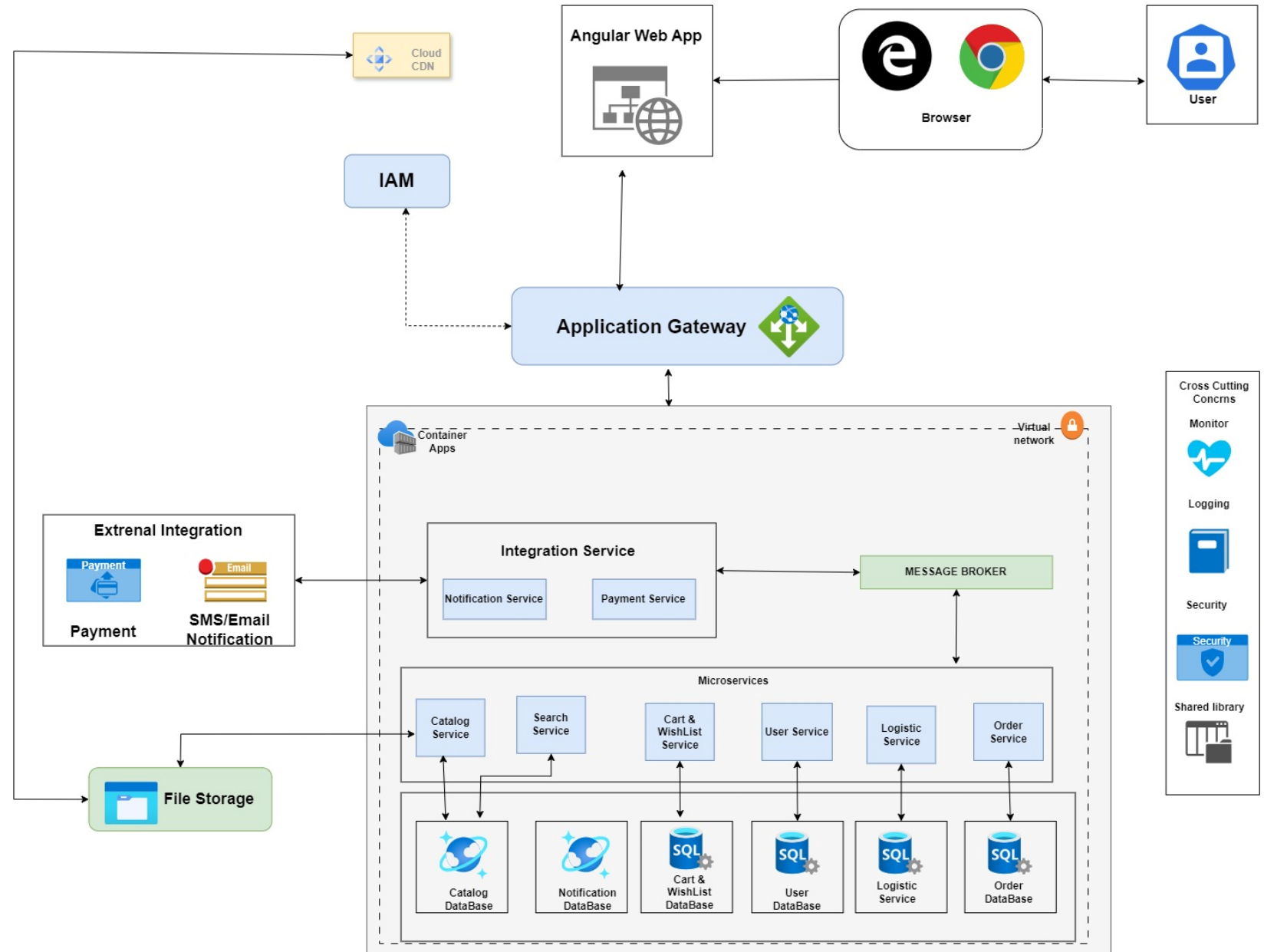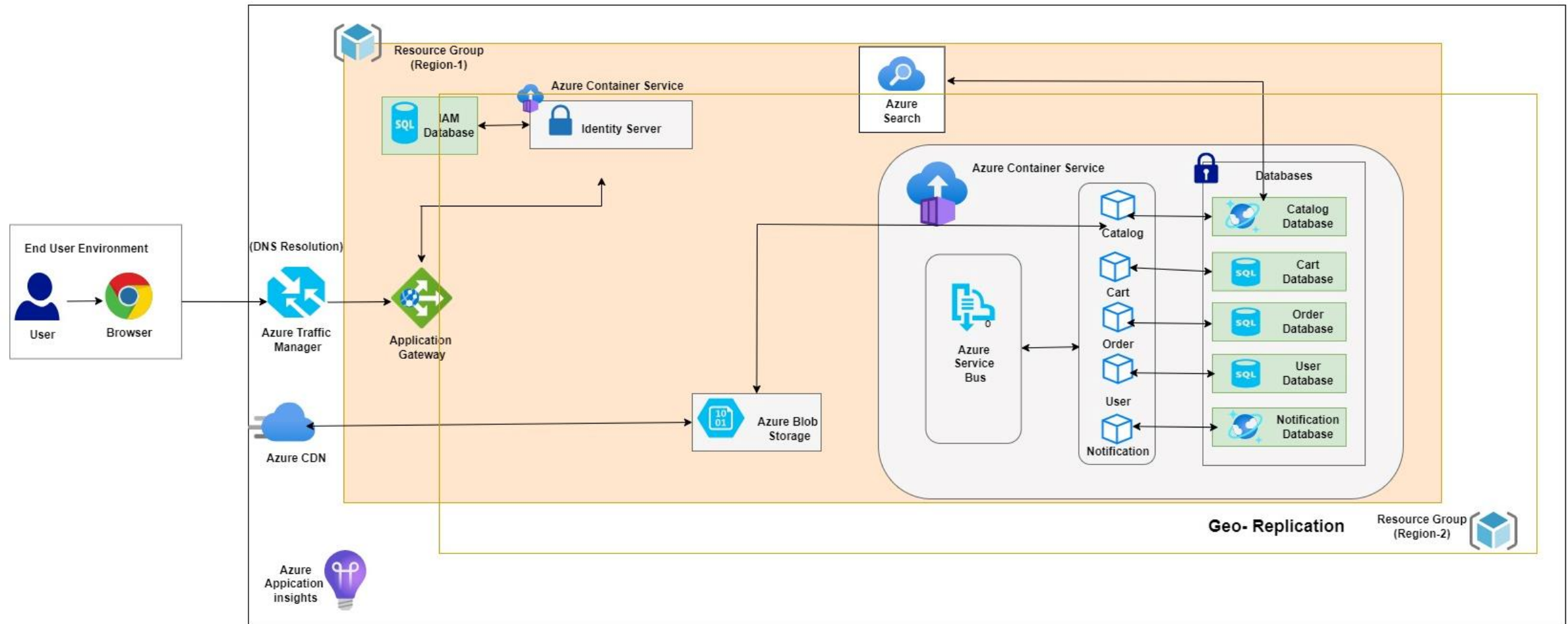- Website is expected to experience high traffic

# NFR

- In compliance with GDPR regulations, sensitive information will undergo masking.

- During the sales duration, the application will scale up to meet increased demand

- Minimize the application's downtime.

# Architecture Diagram

# Deployment Diagram

# Message Broker

- Azure Service Bus

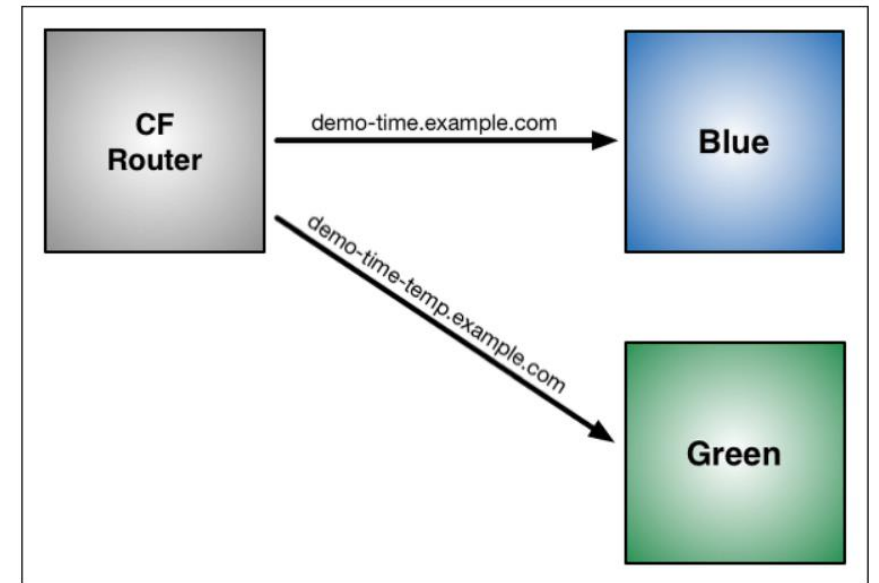| Parameters | RabbitMQ | Azure Service Bus |
|---|---|---|
| Infrastructure Cost | 22 | 24 |
| Scaling | 20 | 24 |
| Open Source | 23 | 18 |
| Ease of Setup and Management | 18 | 23 |
| Message Retention | 20 | 23 |
| Failover Handling | 20 | 24 |

Blue Green

# Deployment Strategy

## Angular

# Front End

| Aspect | Angular | React | Justification |
|---|---|---|---|
| Tooling and CLI | 20 | 12 | Angular CLI is comprehensive and integrated, streamlining development. |
| Architecture | 16 | 12 | Angular provides a more opinionated and comprehensive structure, promoting consistency in larger projects. |
| Language | 16 | 12 | TypeScript in Angular enhances code quality and error detection. |
| Scalability | 16 | 16 | Angular is well-suited for large enterprise-level applications. |
| Flexibility | 8 | 16 | While Angular is less flexible, this ensures a more consistent codebase. |