Upgrade2Achitect Program

Session #3

Tools and Techniques and Architecture Patterns

EMPOWERING High Performance
Technology Teams

Agenda for the Day

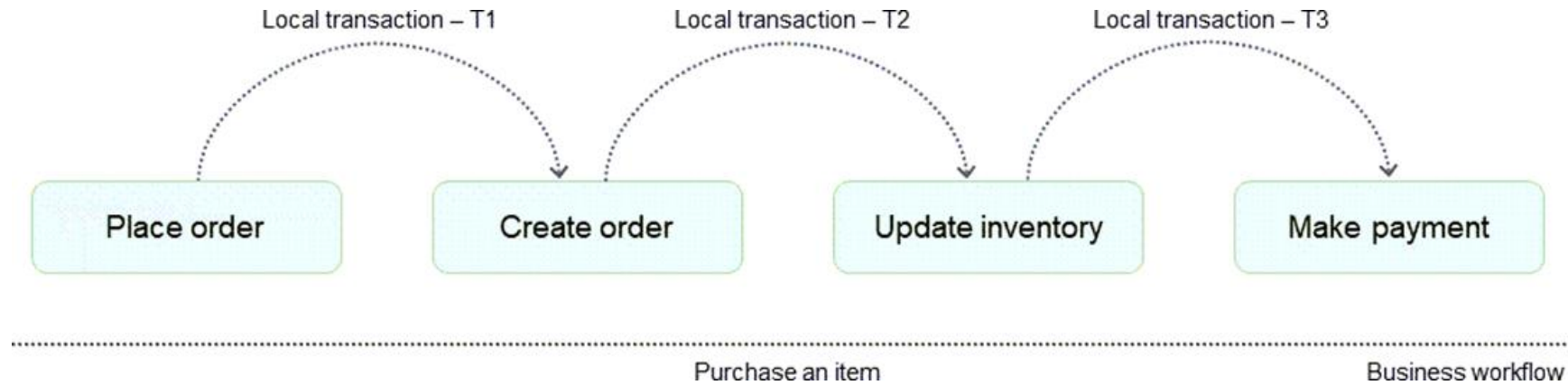| S.No.	Schedule	Item	Duration
1	09.00 to 09.50 a.m.	Tools and Techniques and Architecture Patterns	50 Mins
2	09.50 to 10.00 a.m.	Break	10 Mins
3	10.00 to 10.40 a.m.	Real time examples	40 mins
4	10.40 to 11.00 a.m.	Interaction Time for Q&A	20 mins

Note: For sessions that are completely demo/Lab or notebook based, please keep one agenda slide and explain the same thing in the beginning so that participants are aware they do not have PPT.

Tools and Techniques and Architecture Patterns

1. Saga patterns
2. Saga choreography
3. Saga orchestration
4. Scatter-gather
5. Strangler fig
6. Transactional outbox
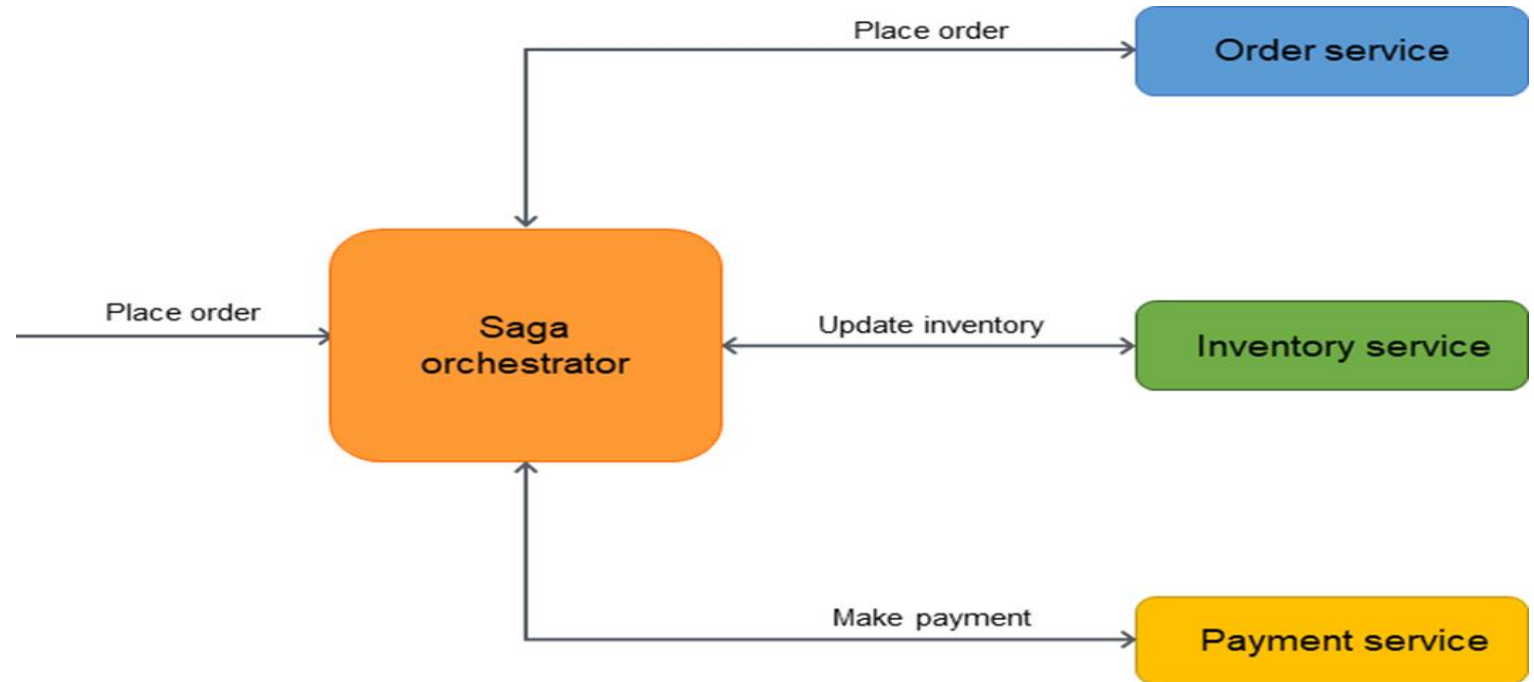7. Tools and Techniques

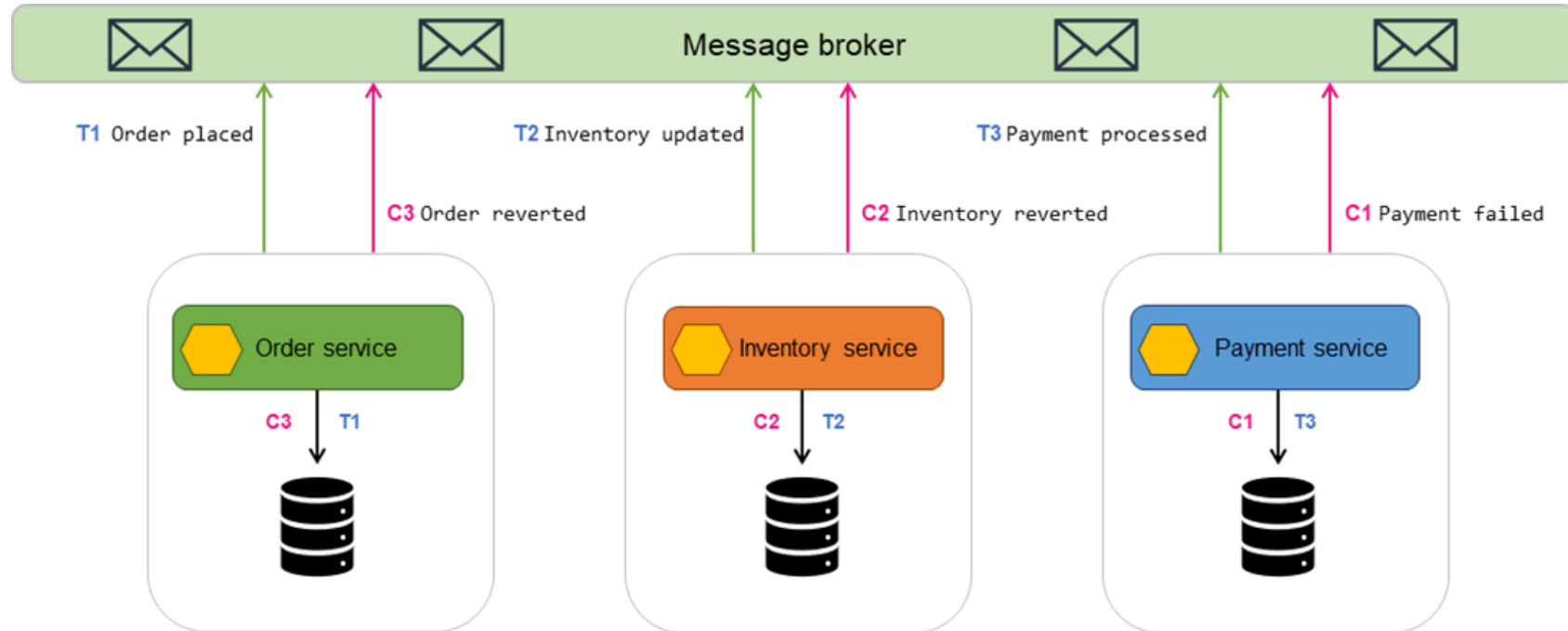# Saga patterns

High-level architecture
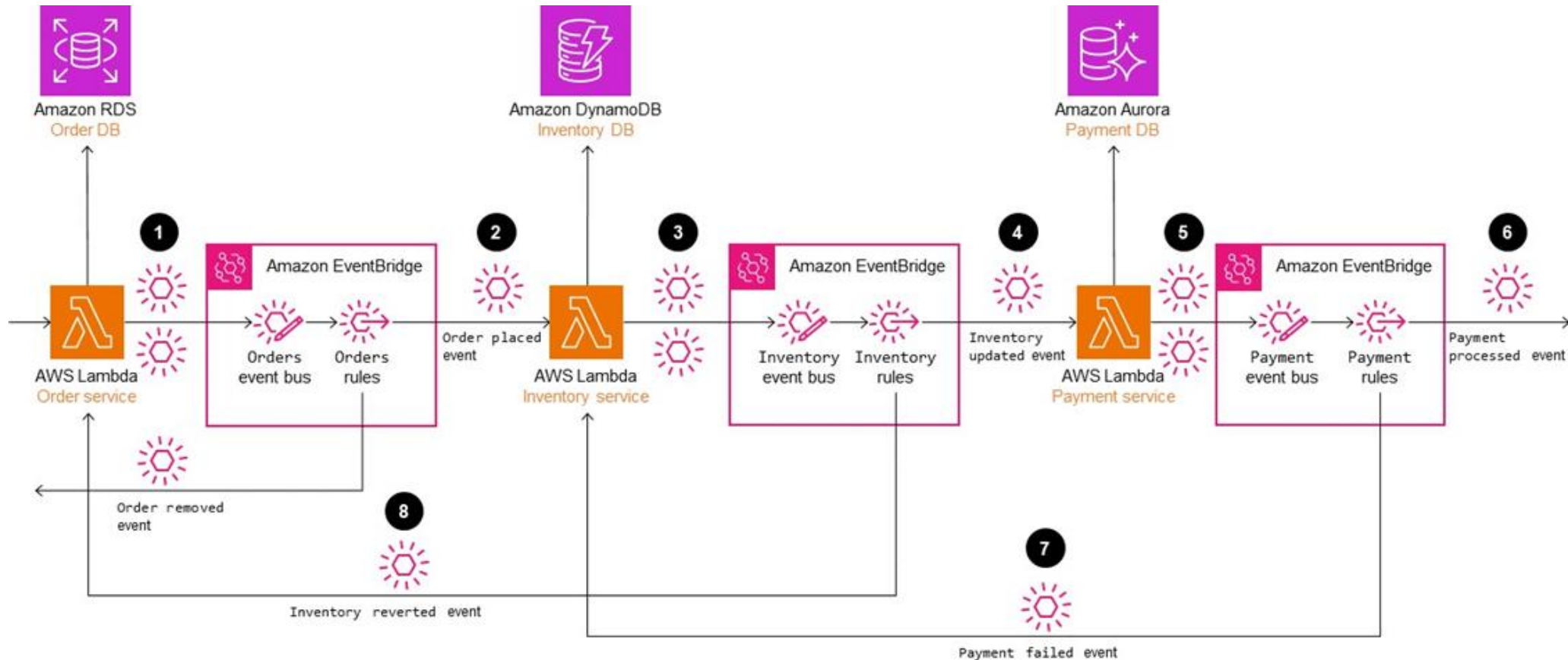
Saga patterns

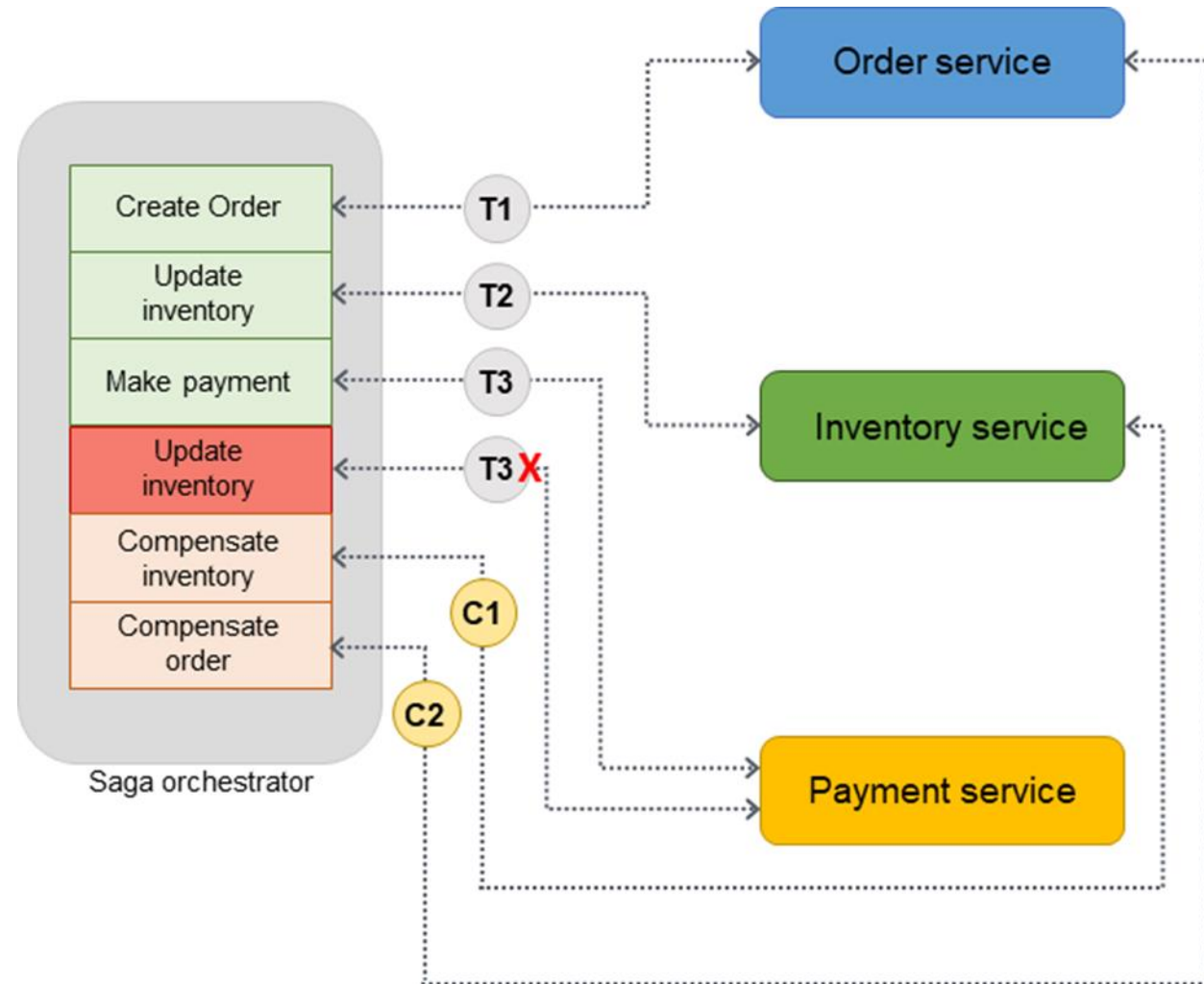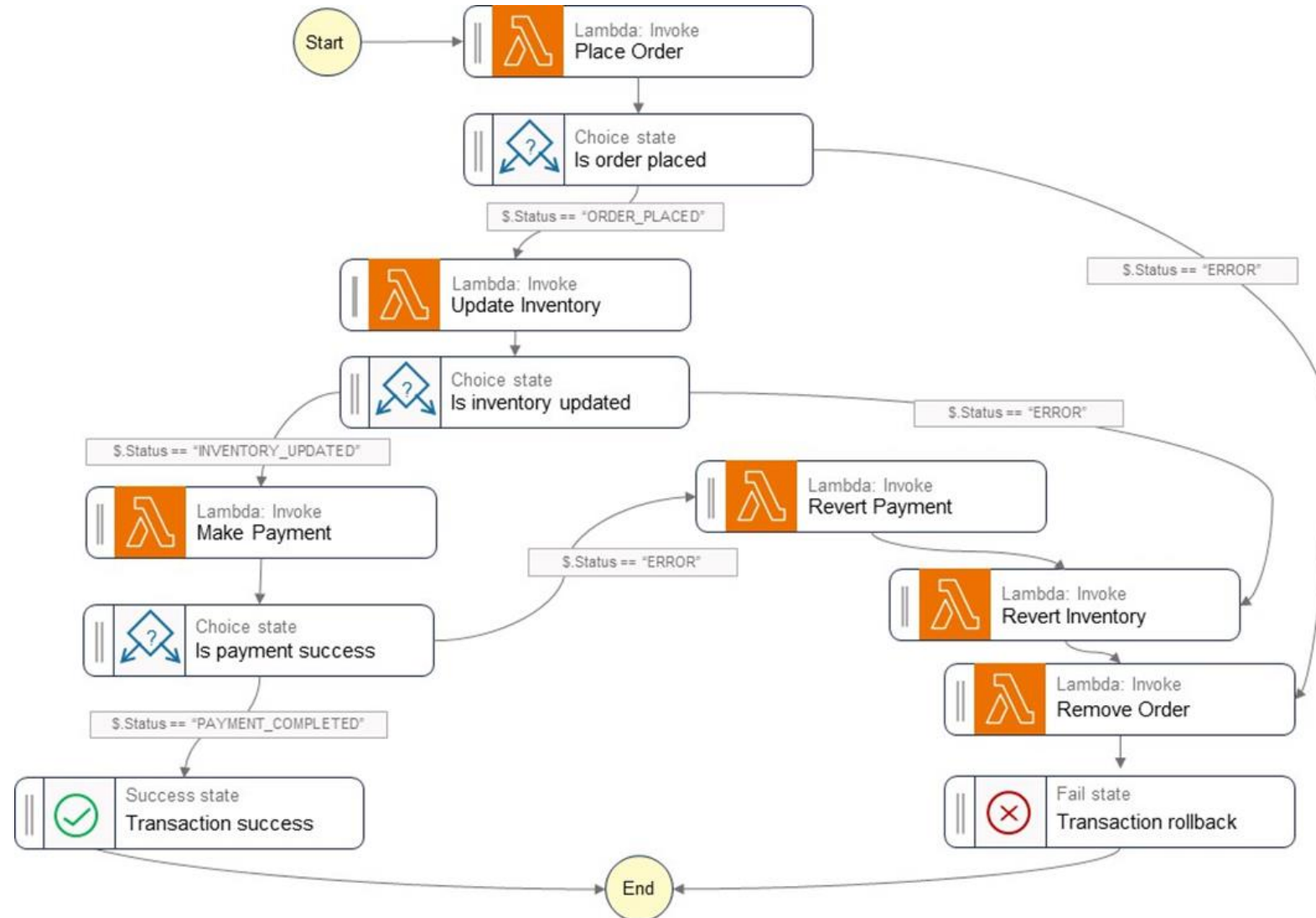Saga choreography

Saga orchestration

Saga patterns

High-level architecture

Saga patterns

High-level architecture
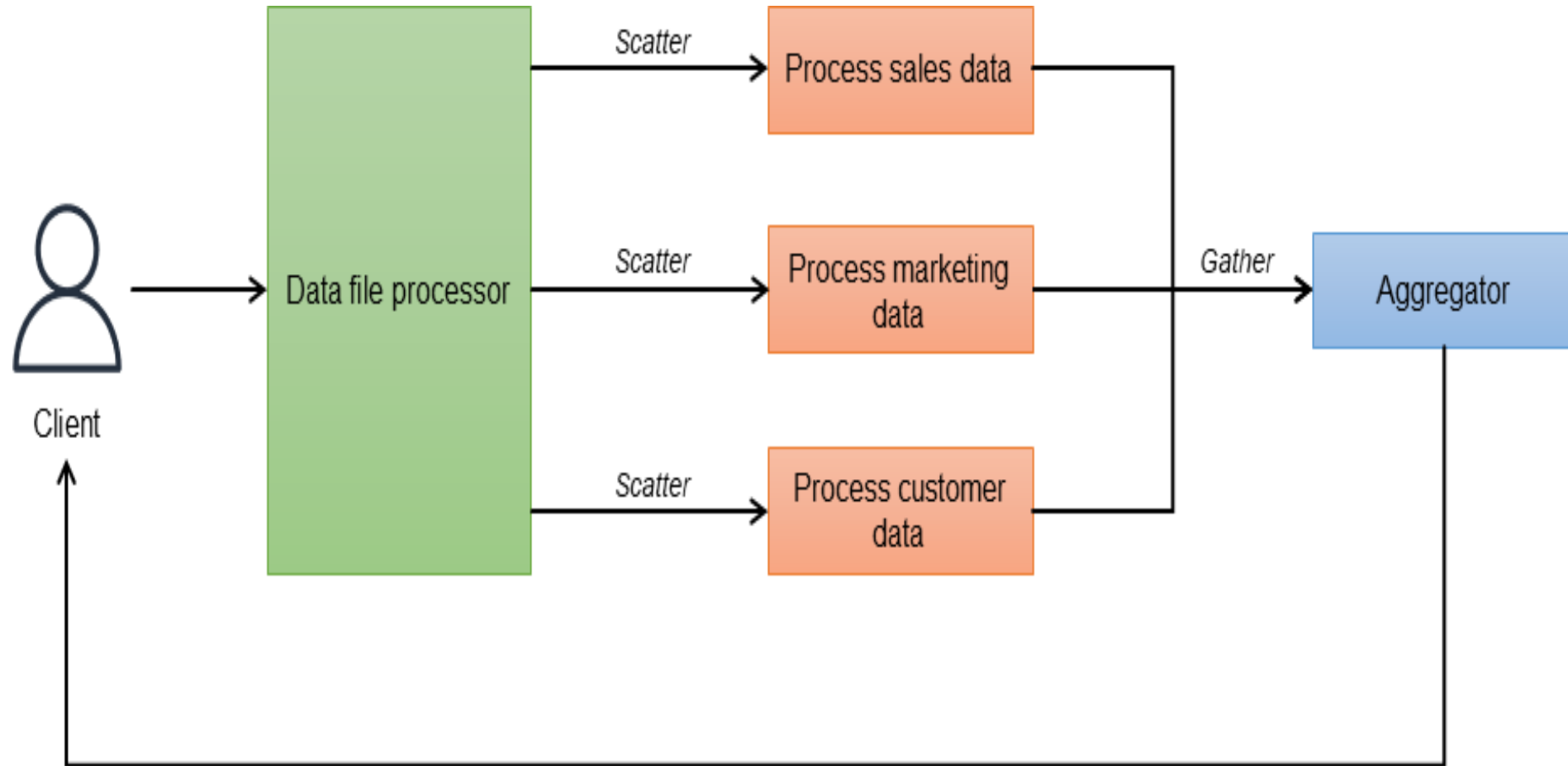
Saga patterns

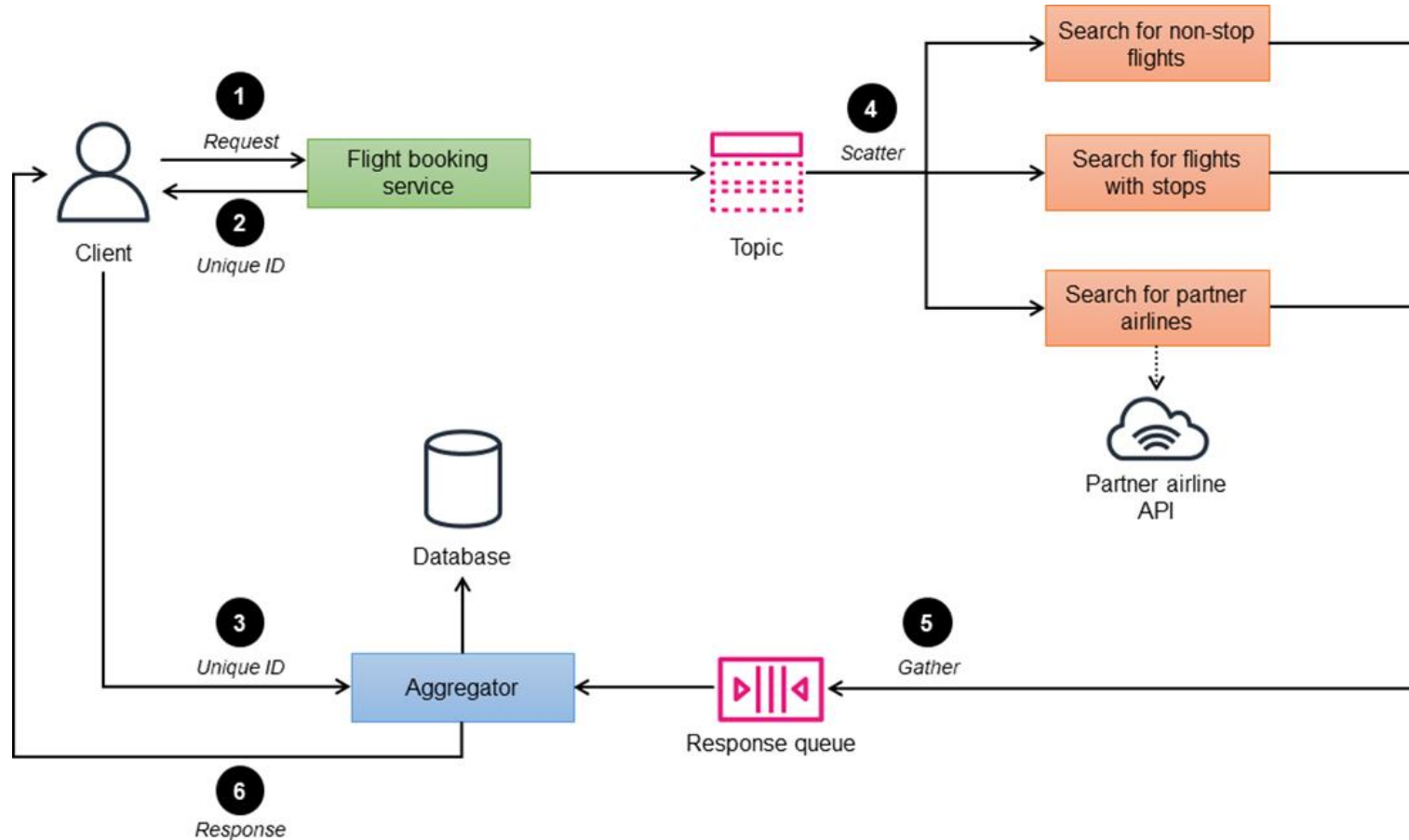High-level architecture
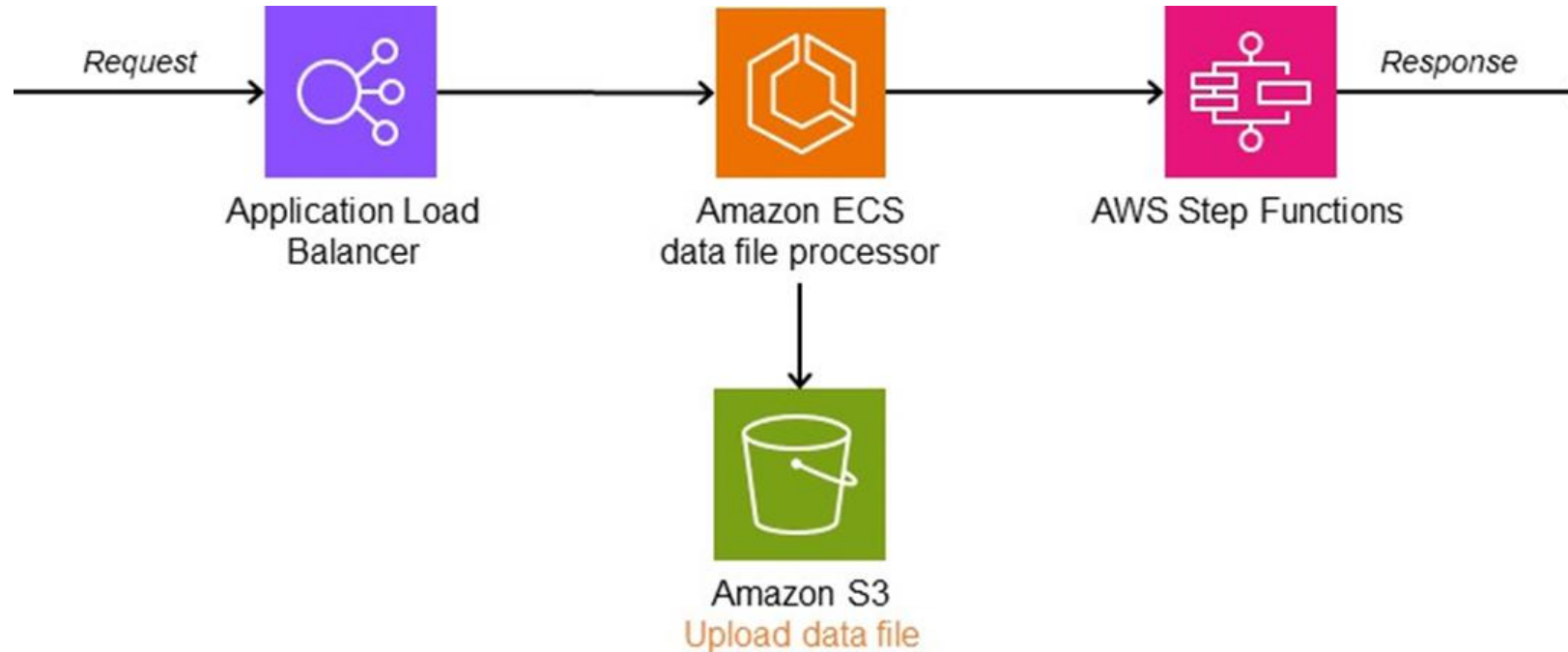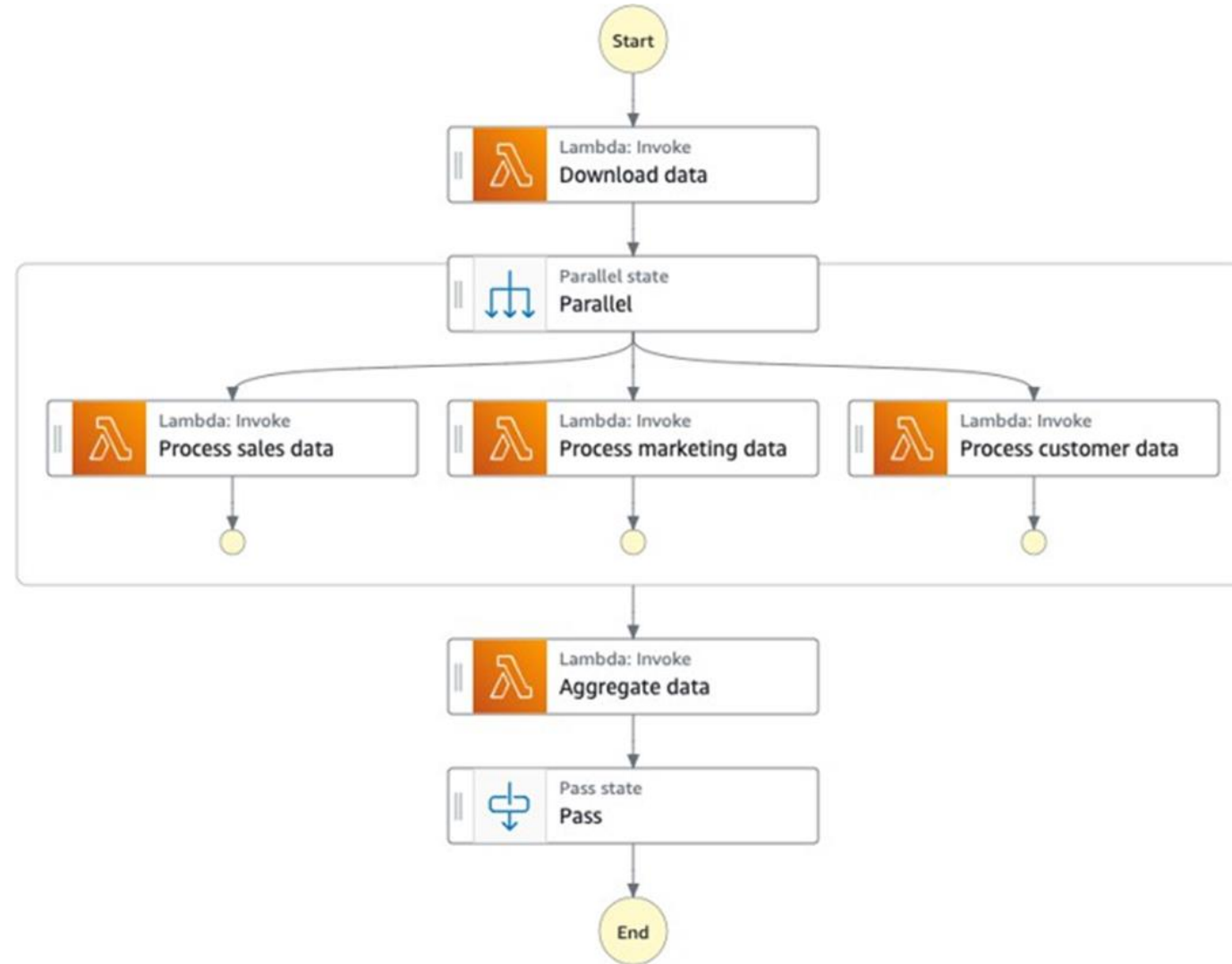
Saga patterns

High-level architecture

Scatter-gather pattern

High-level architecture

Scatter-gather pattern

High-level architecture
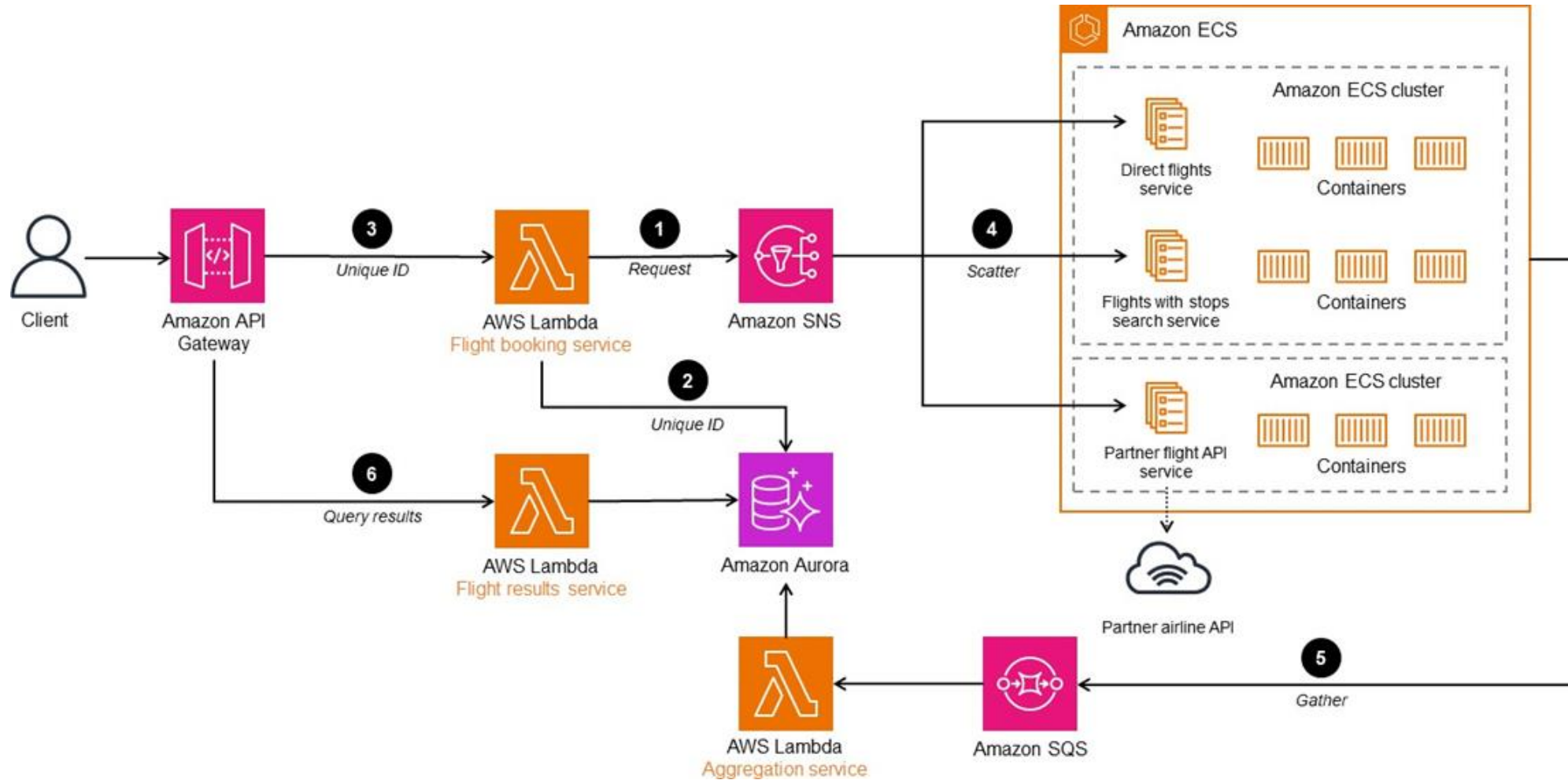
Scatter-gather pattern

High-level architecture
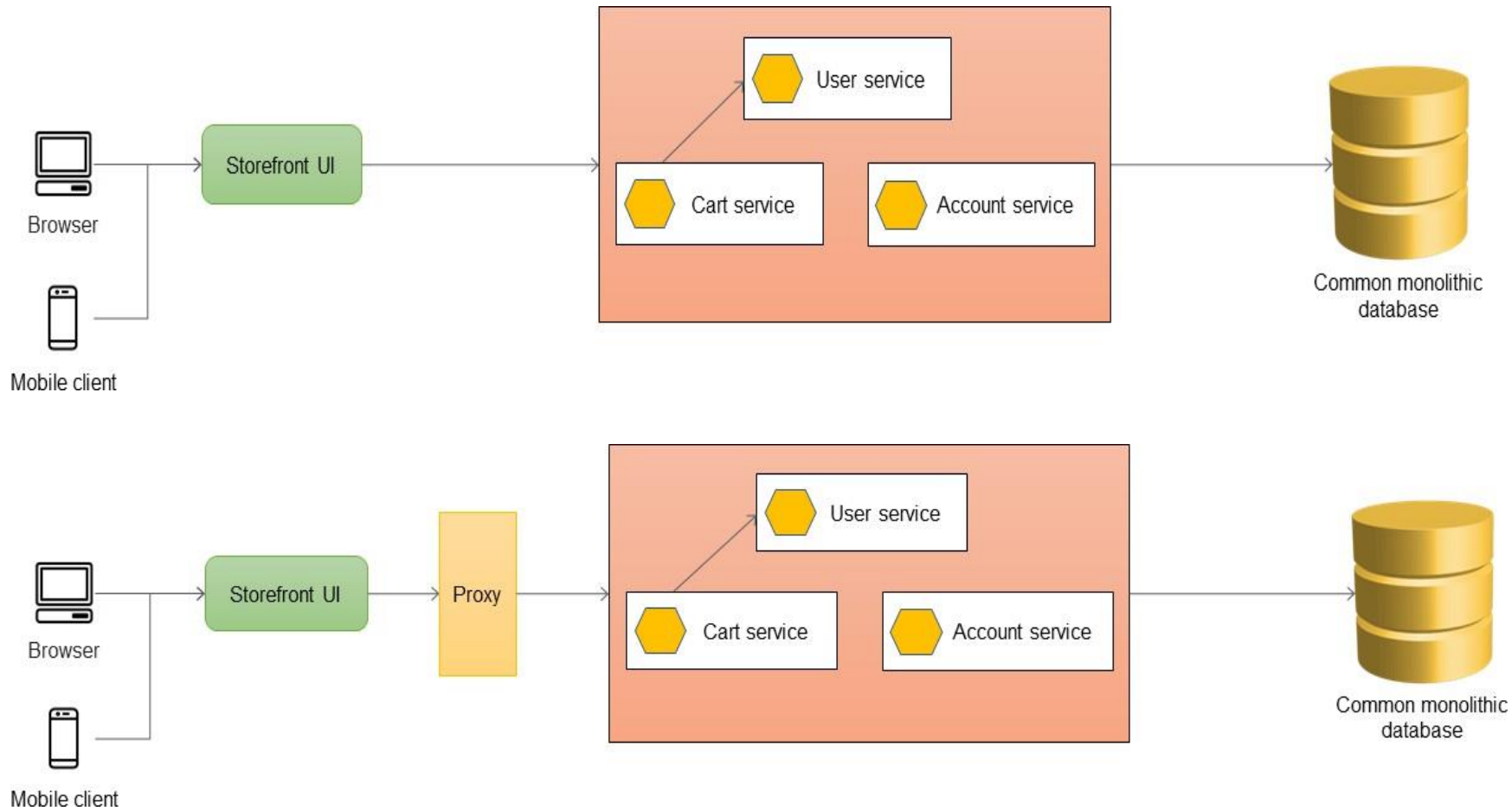
Scatter-gather pattern

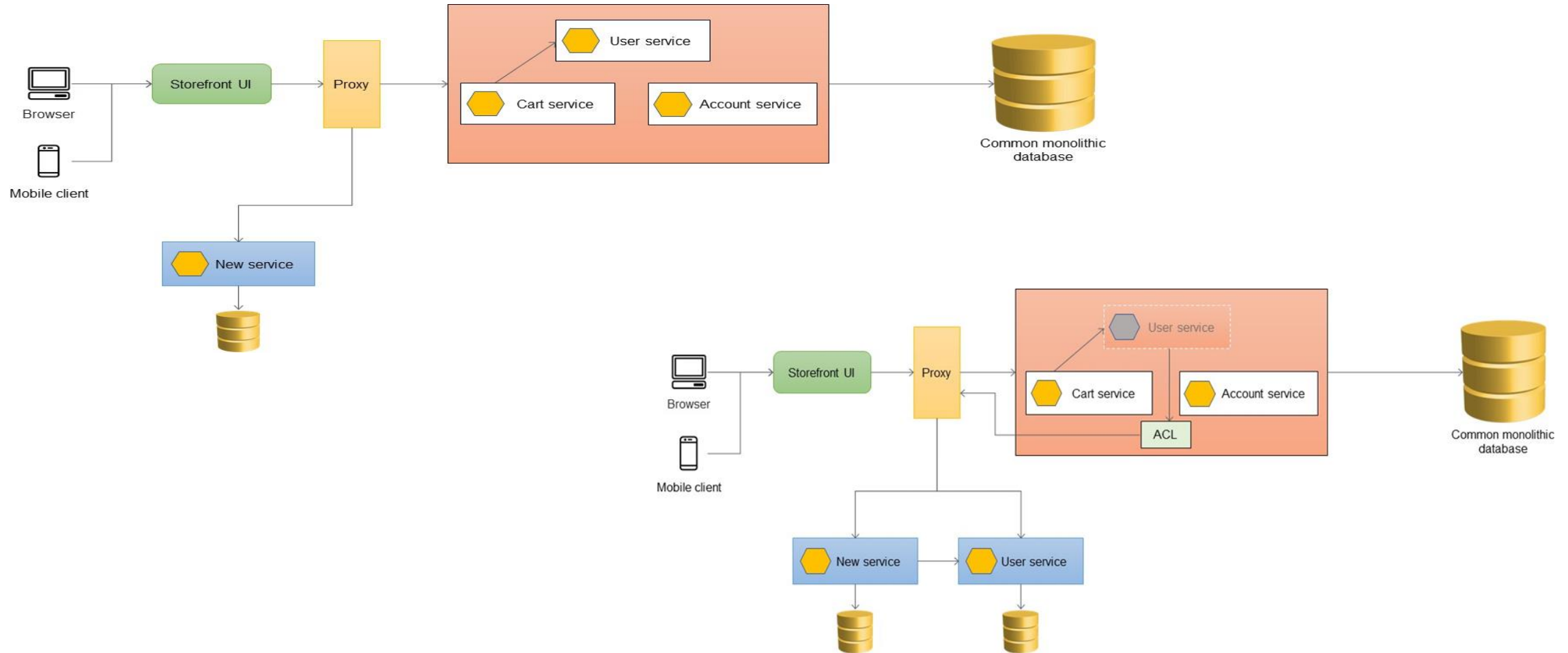High-level architecture

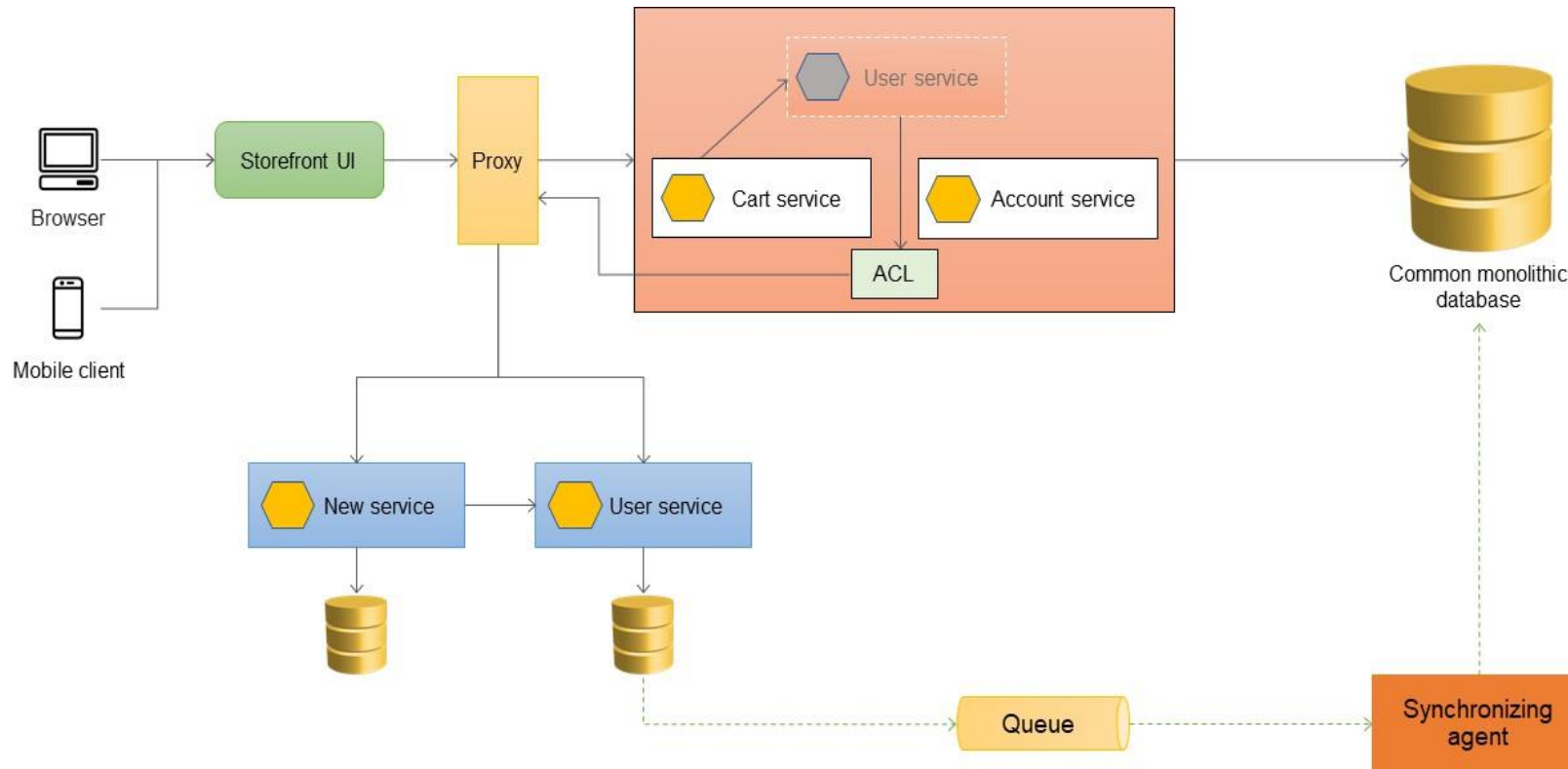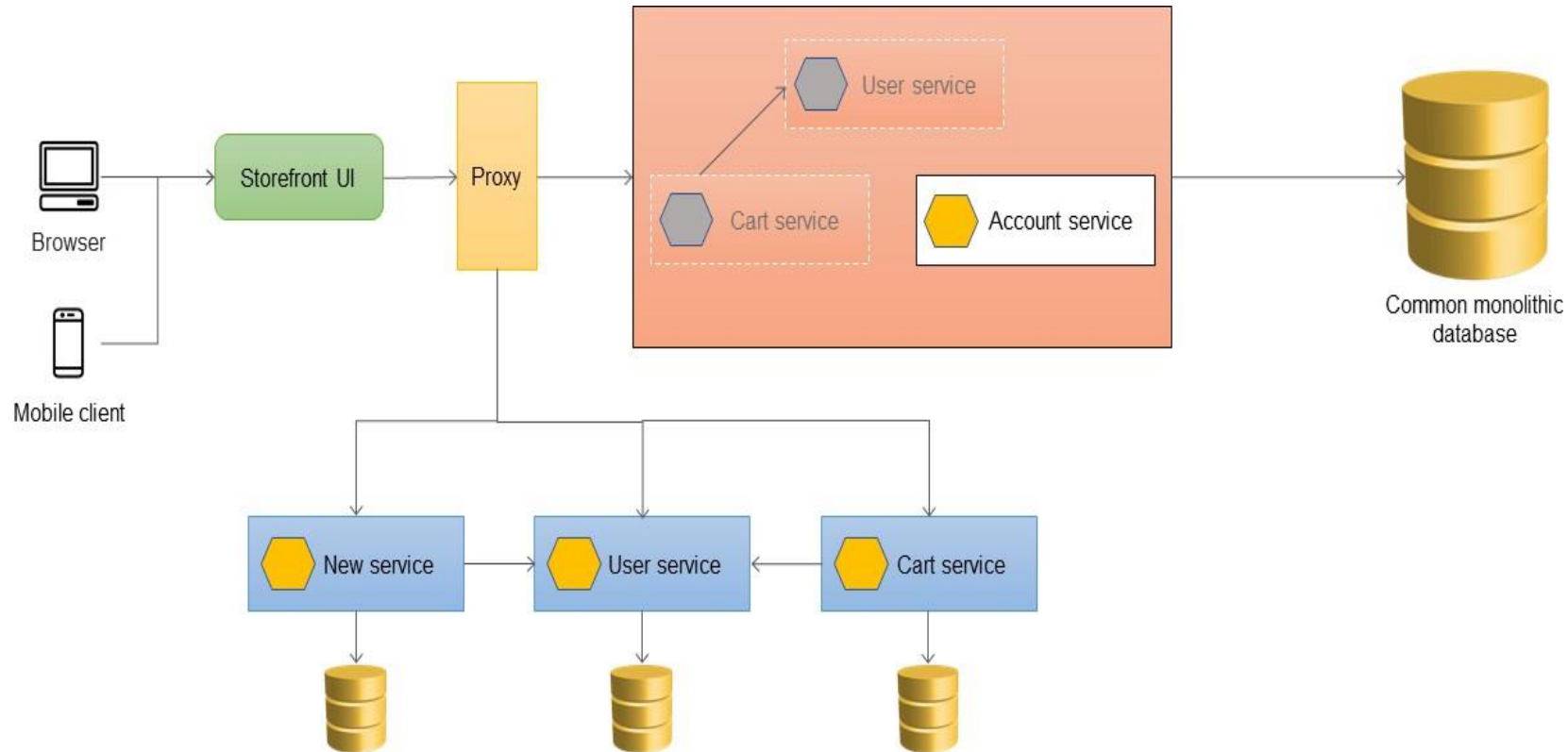# Scatter-gather pattern

High-level architecture

Strangler fig pattern

High-level architecture

Strangler fig pattern

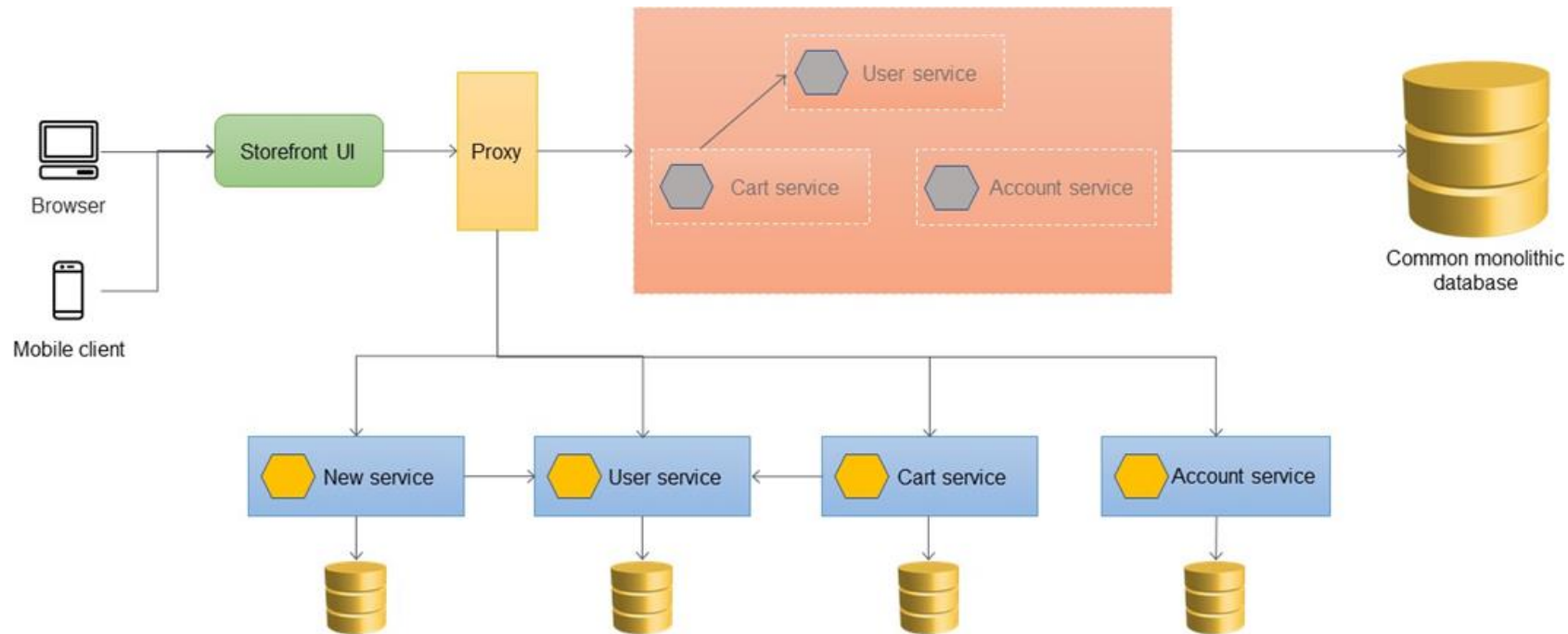High-level architecture

Strangler fig pattern

High-level architecture
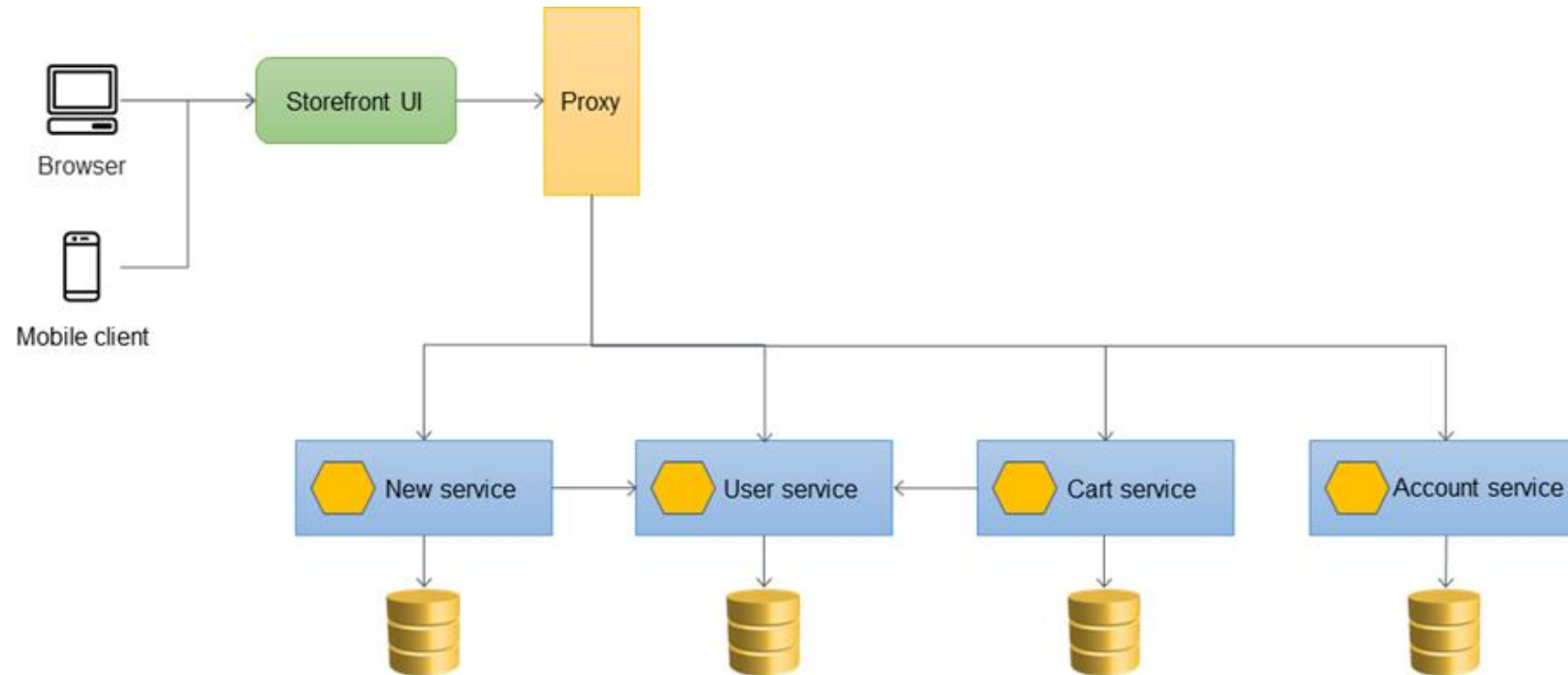
Strangler fig pattern

High-level architecture
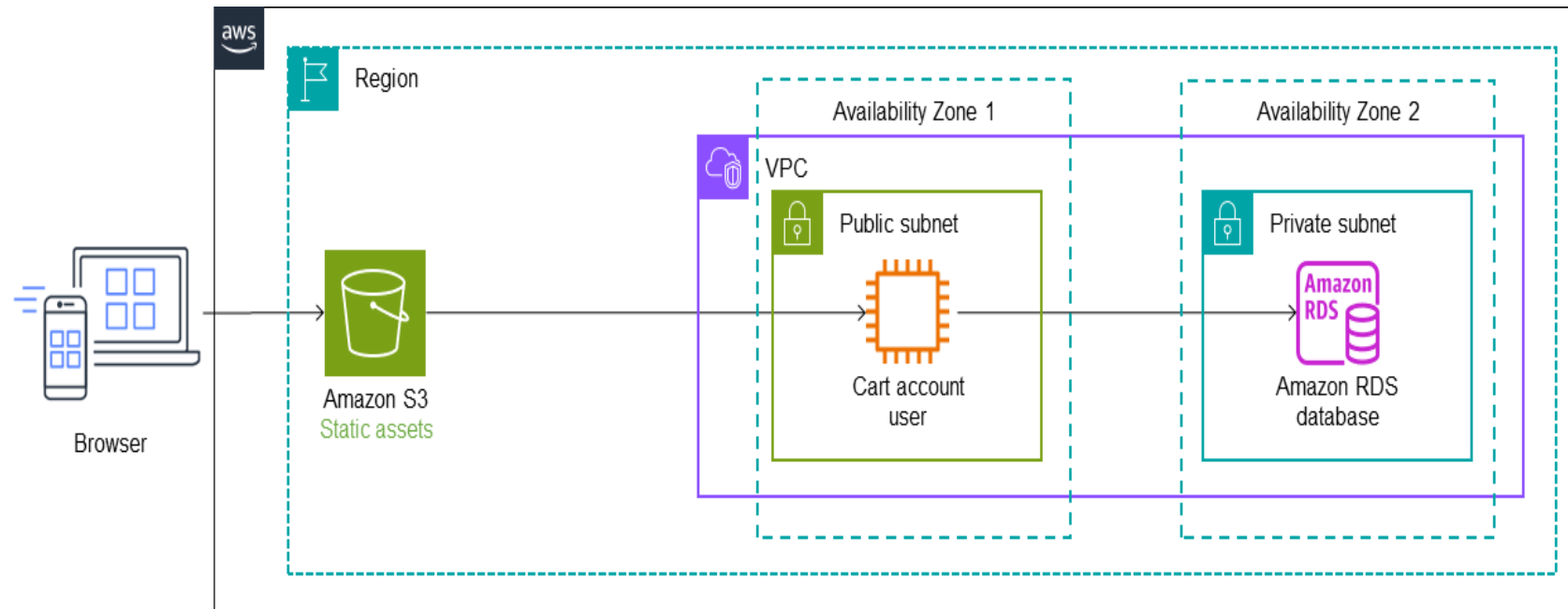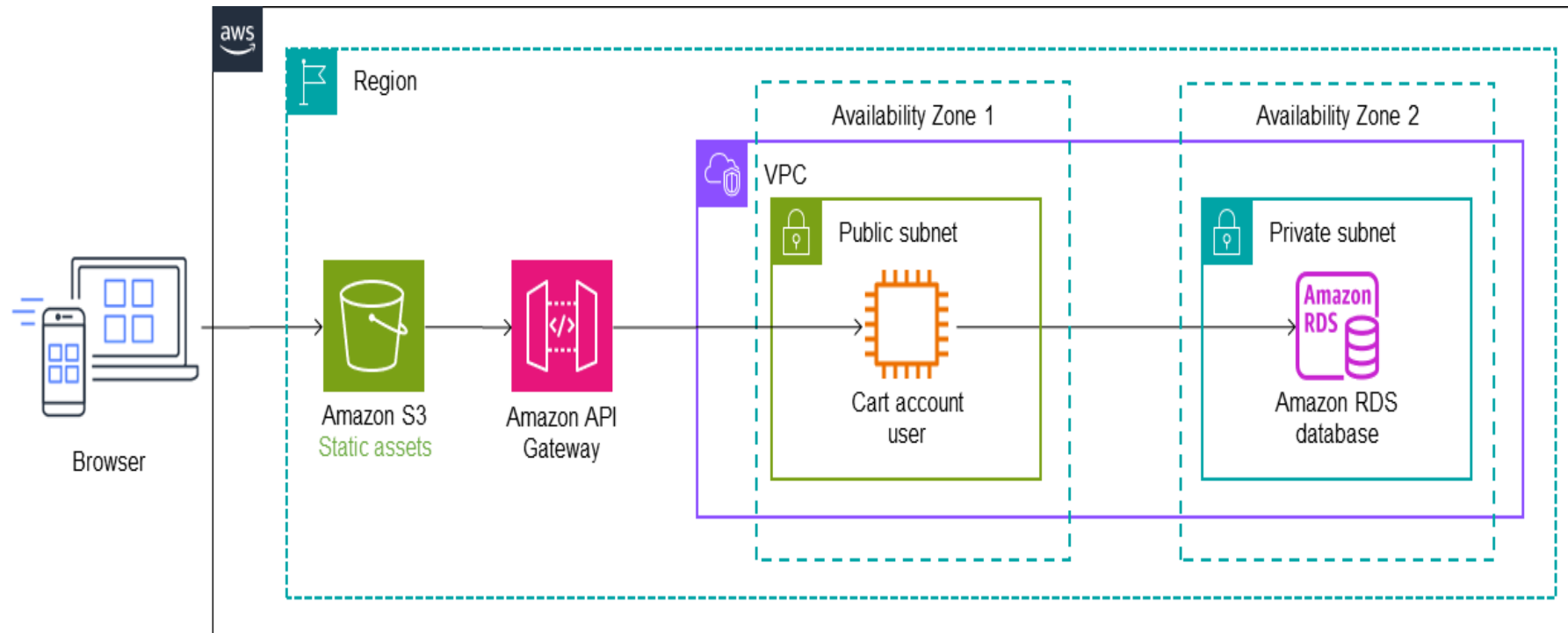
Strangler fig pattern

High-level architecture

API routing patterns

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High-level architecture

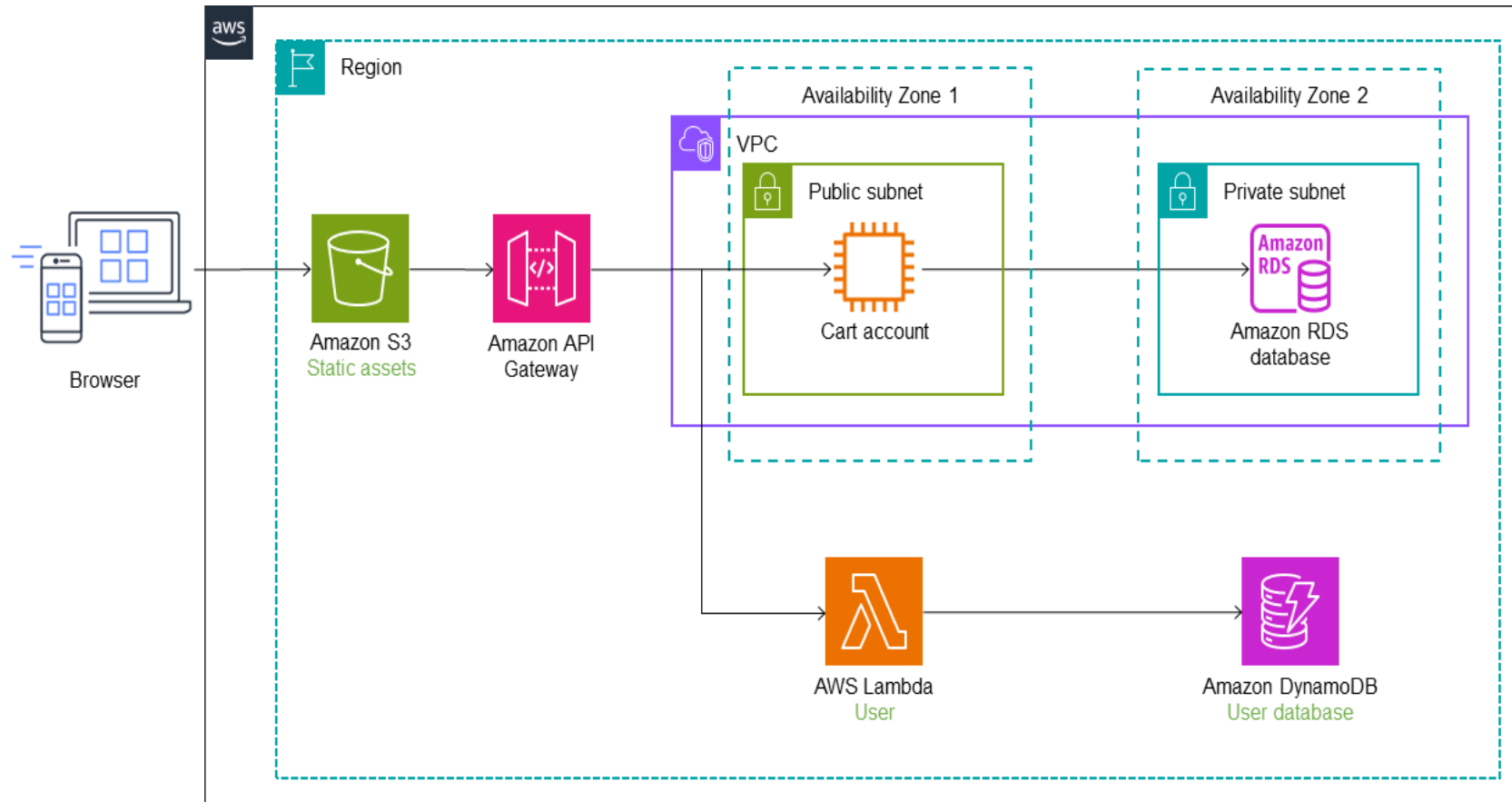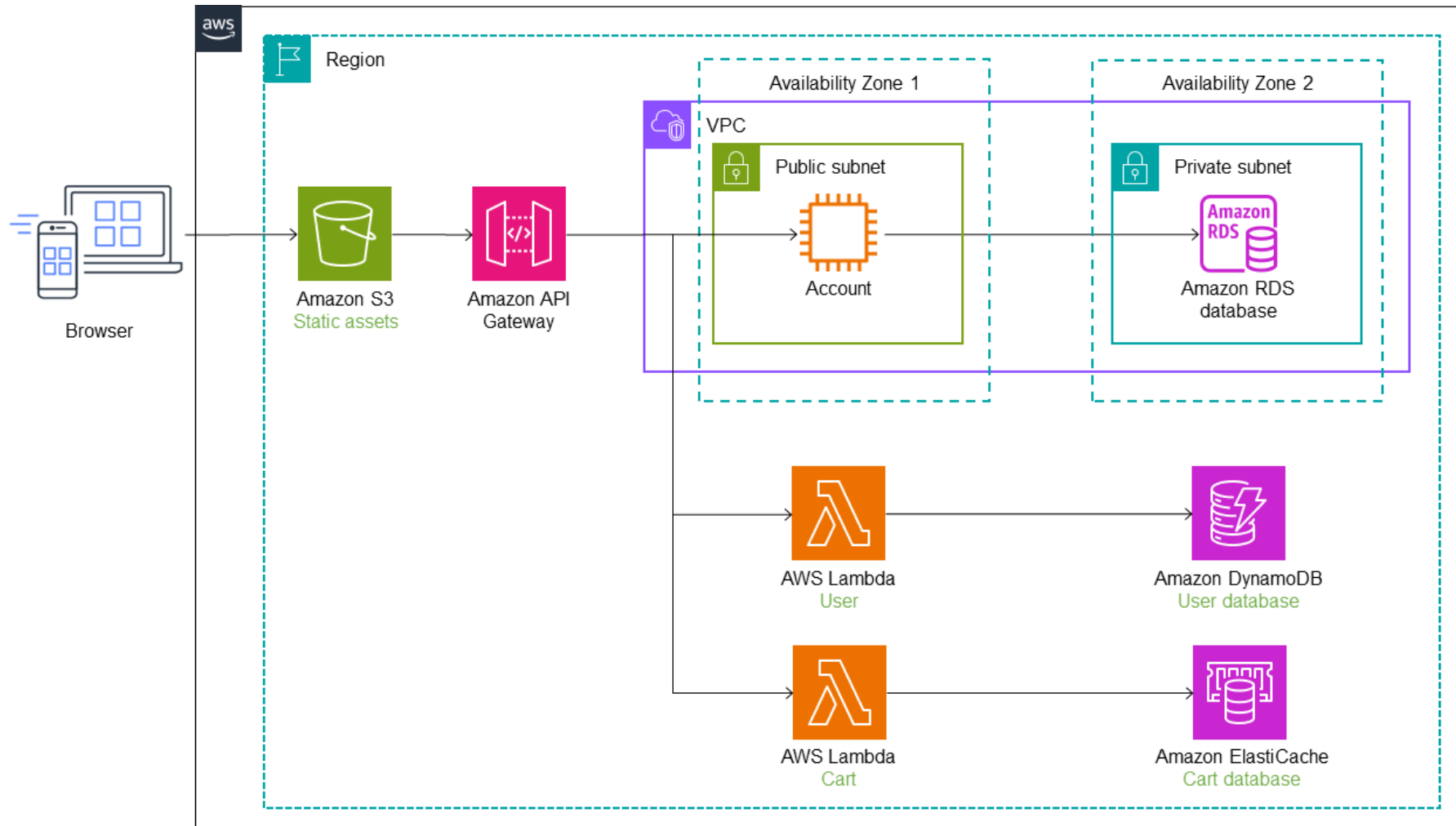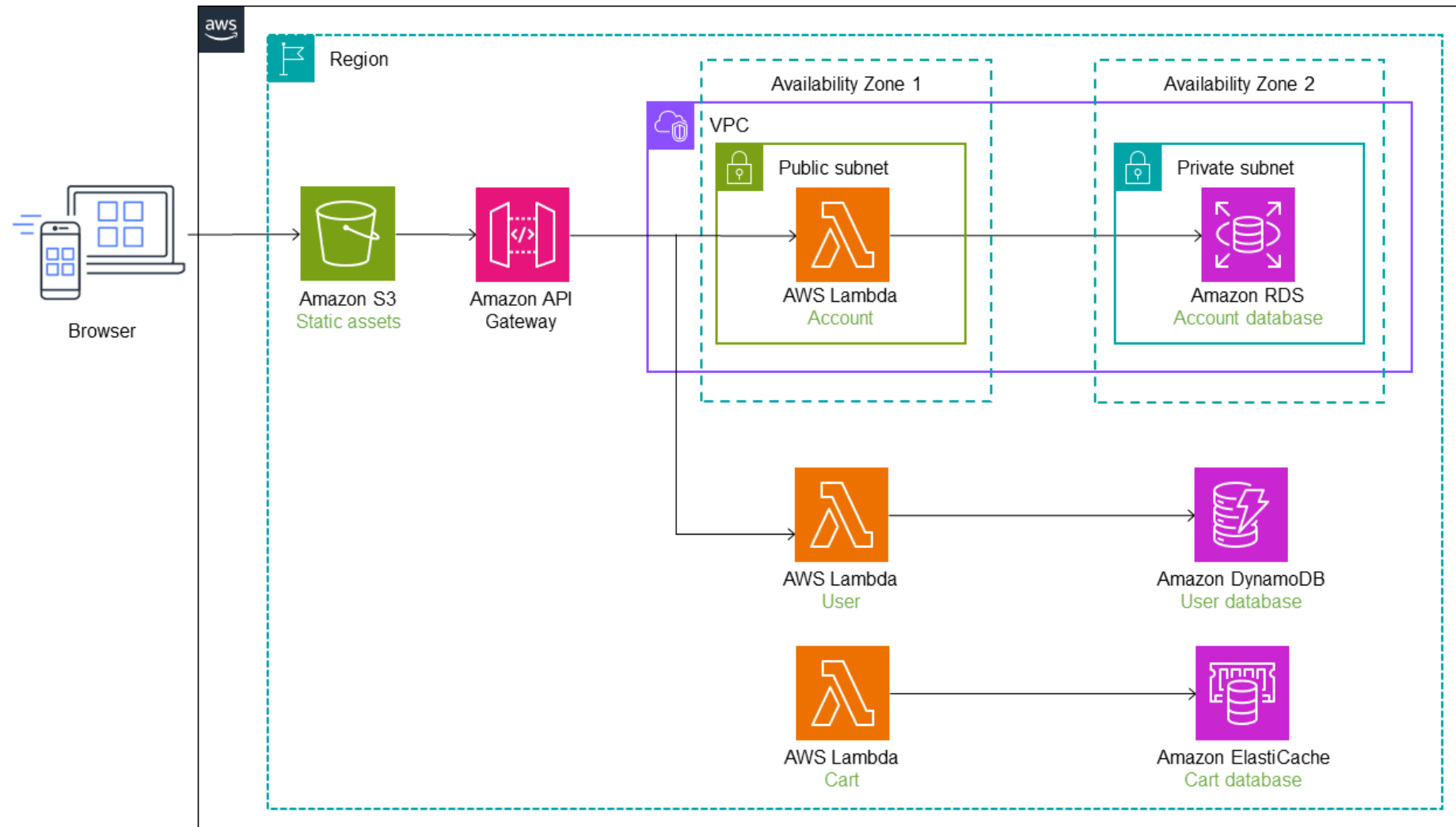# API routing patterns

High-level architecture

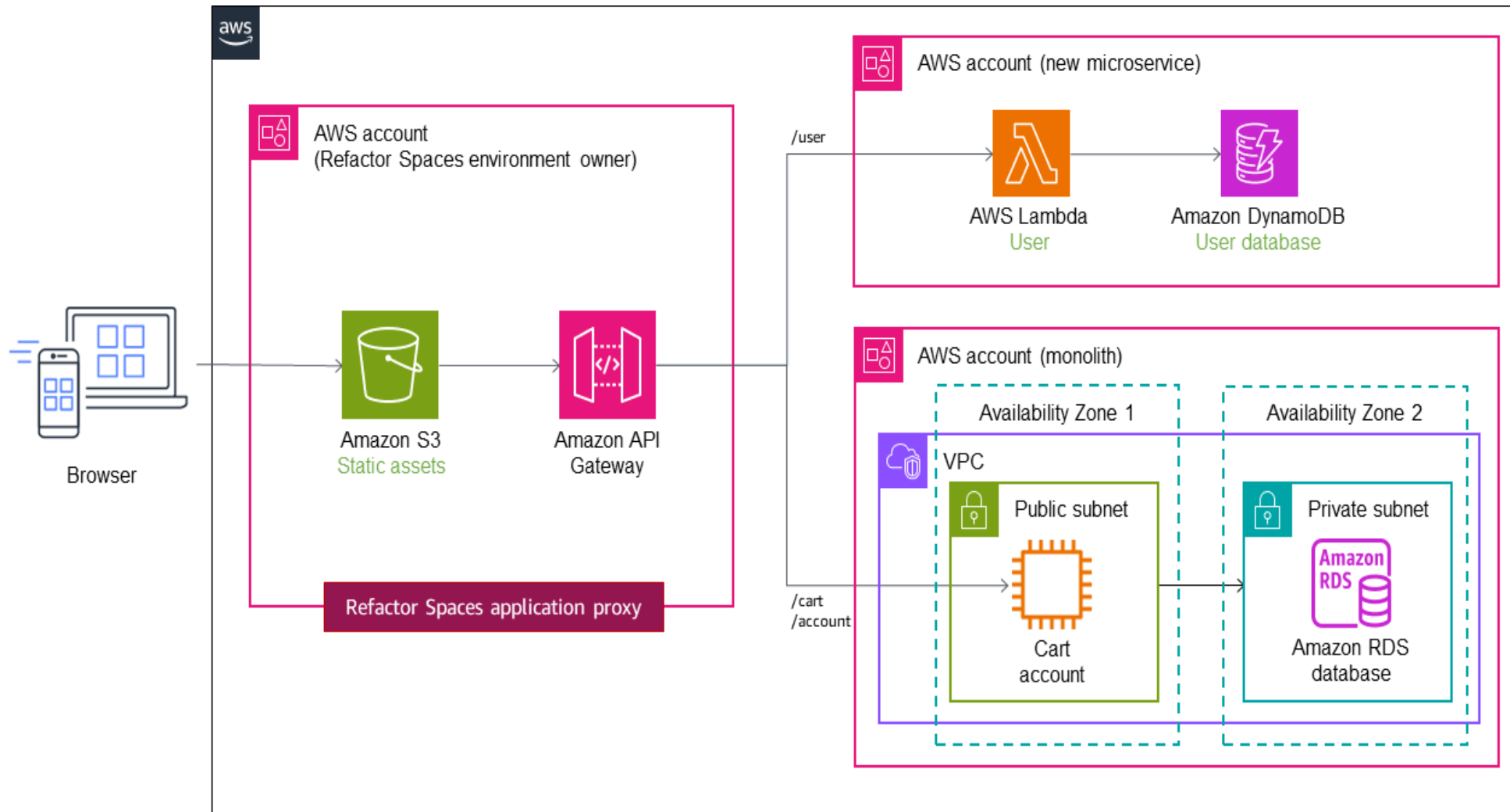# API routing patterns

High-level architecture

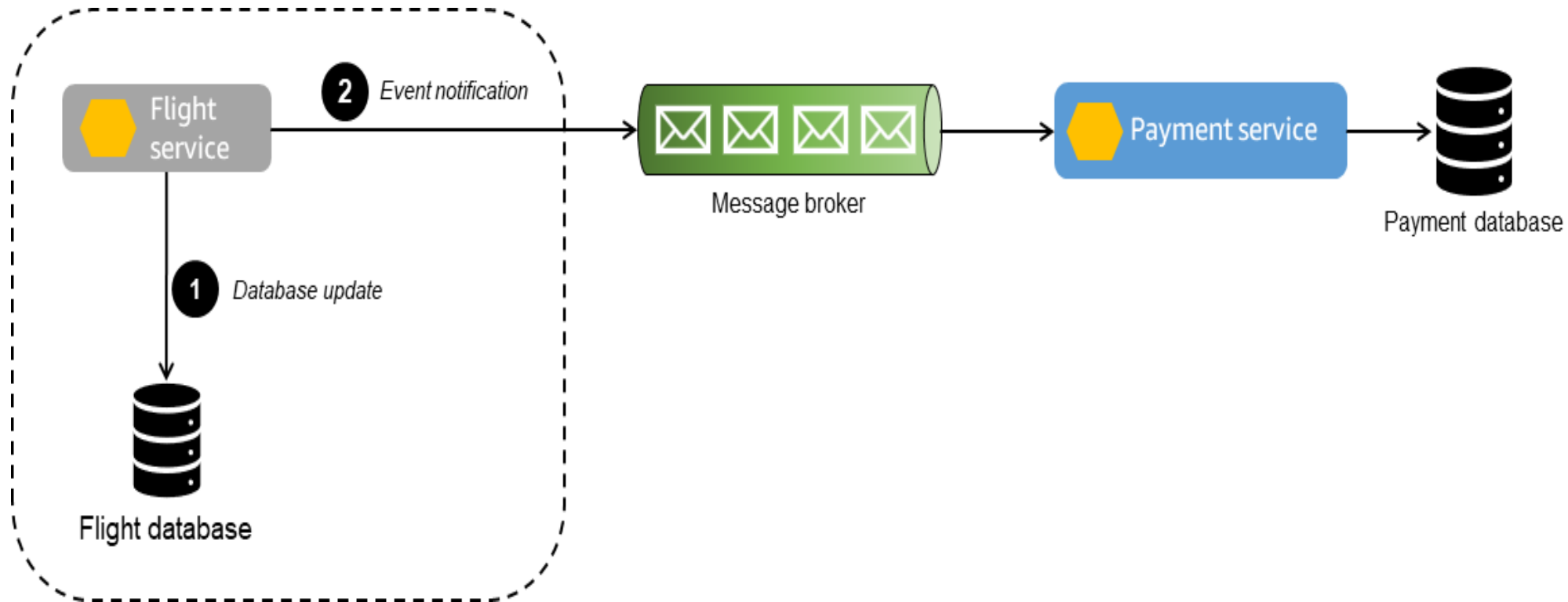# API routing patterns

High-level architecture

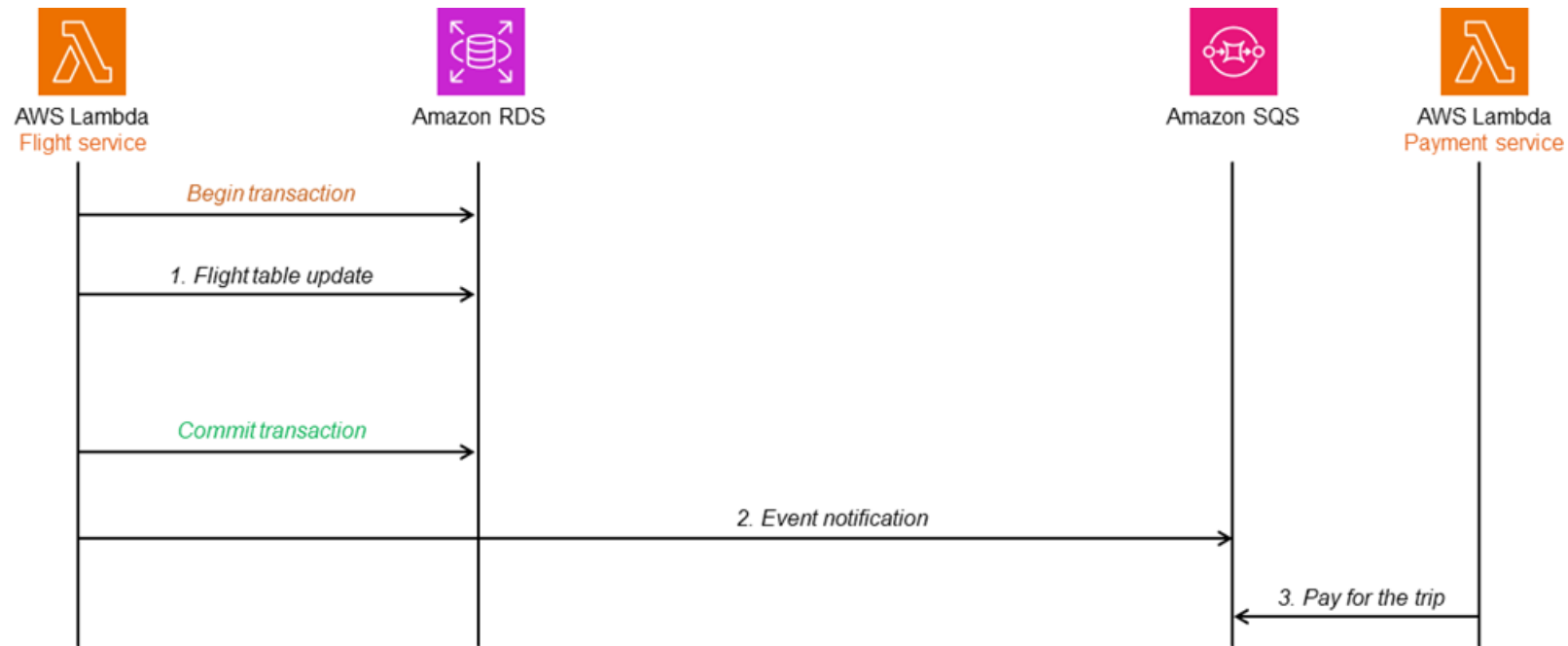# API routing patterns
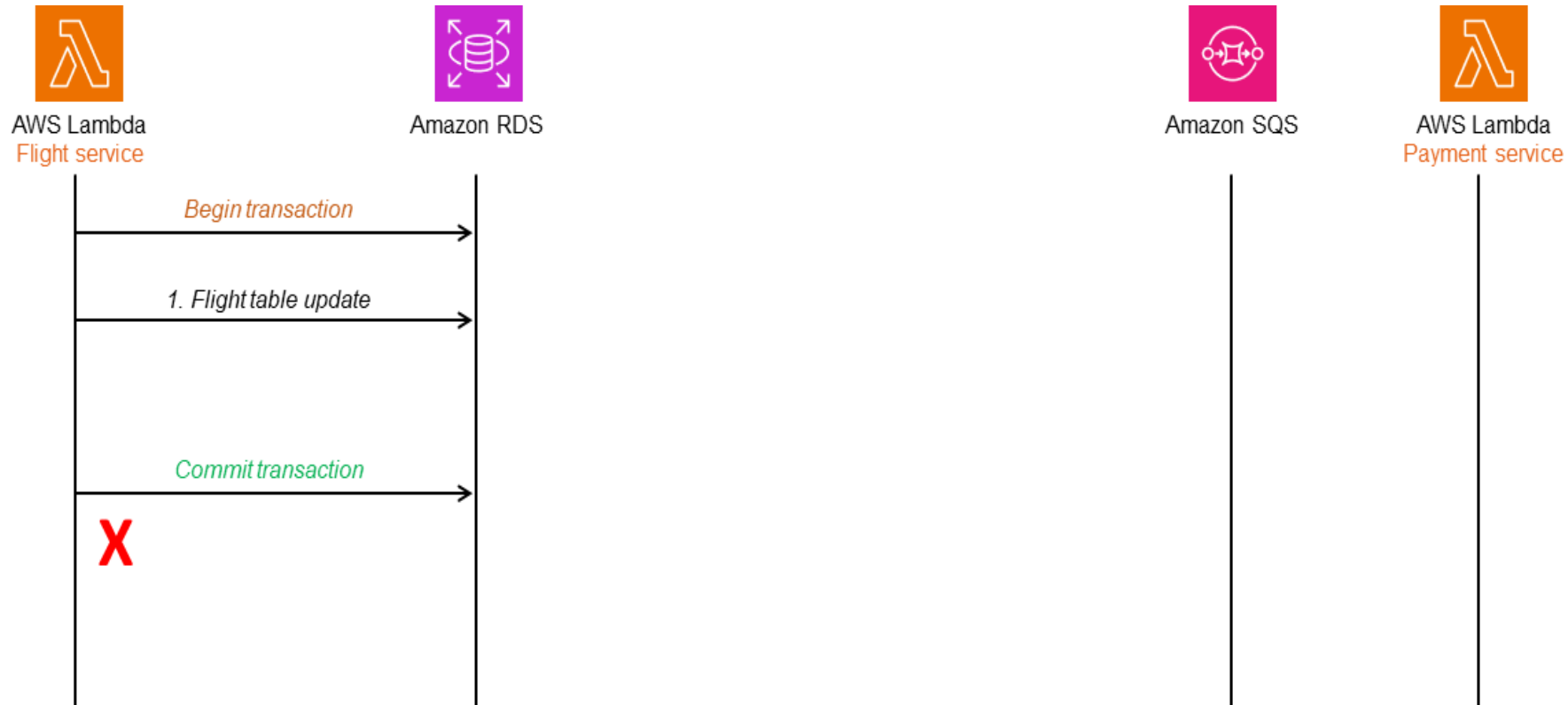

High-level architecture

Transactional outbox pattern
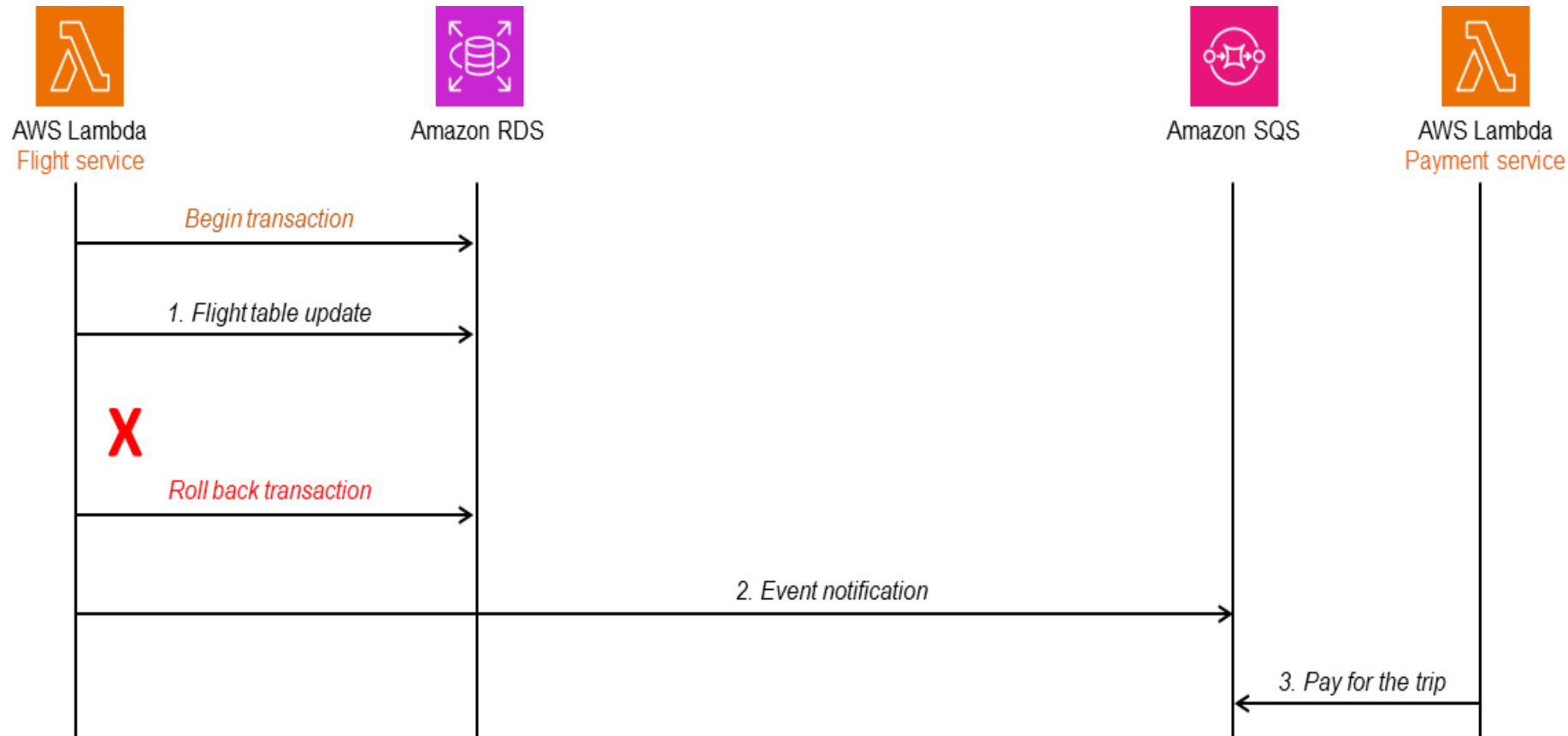

High-level architecture

API routing patterns

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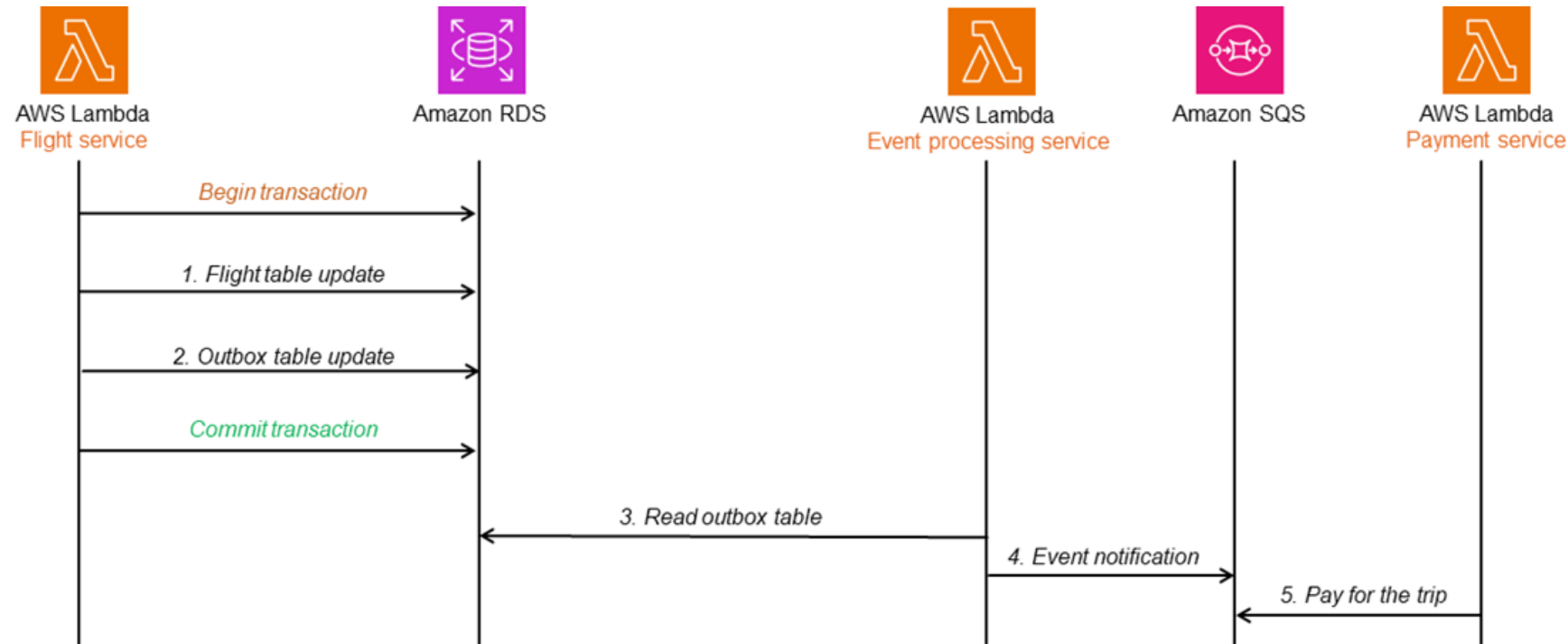
API routing patterns
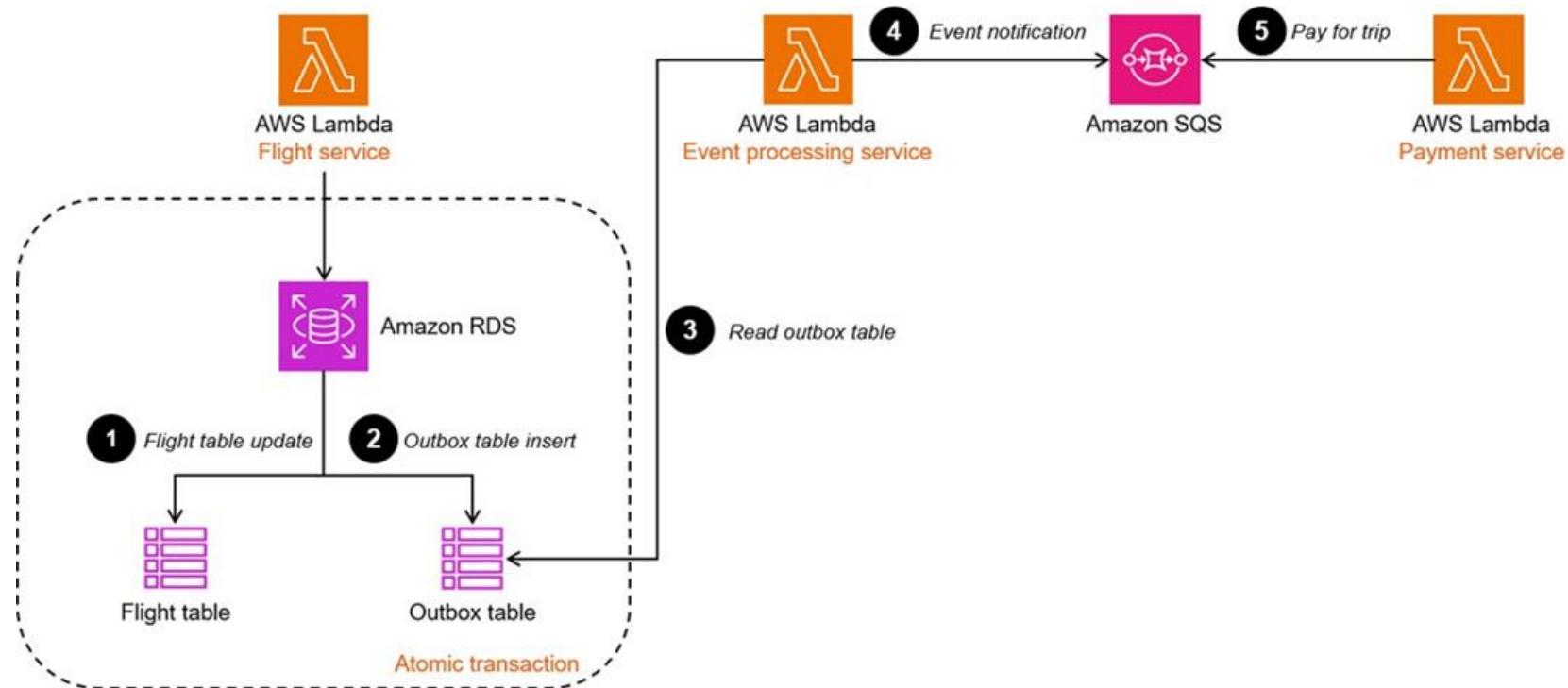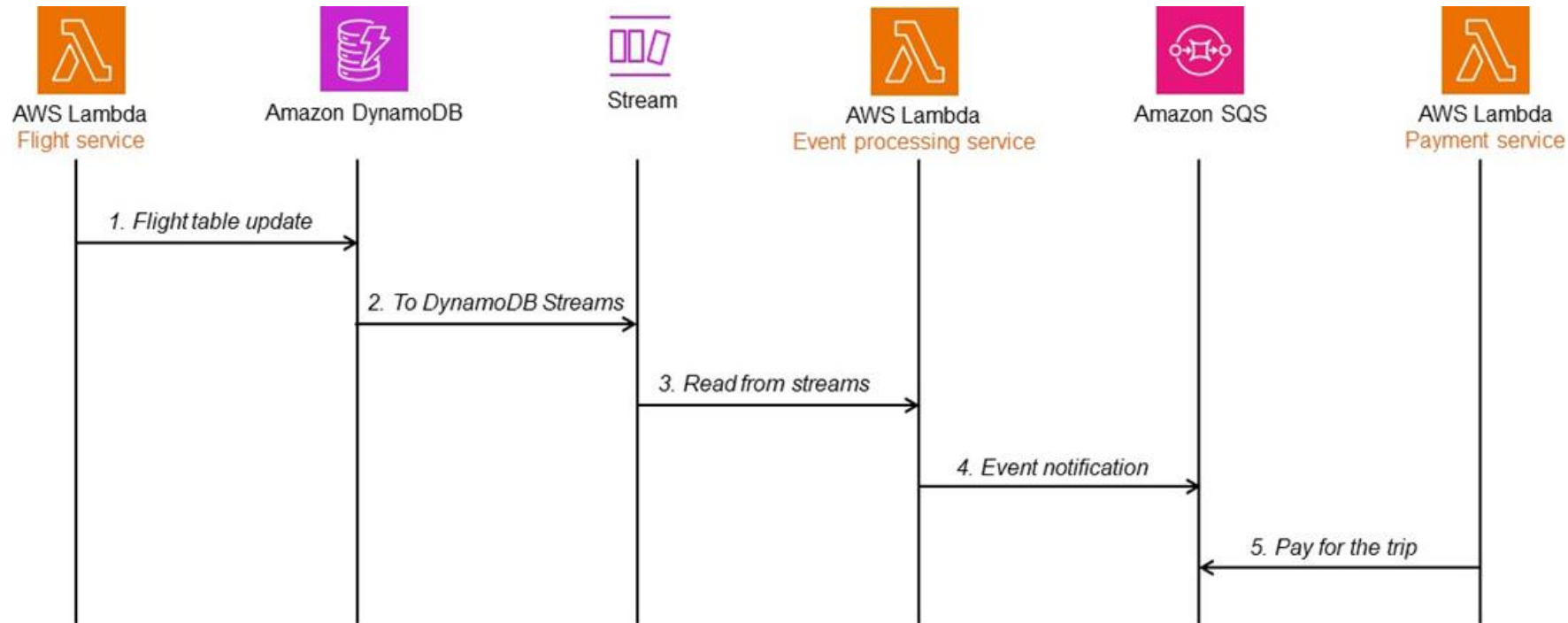

High-level architecture
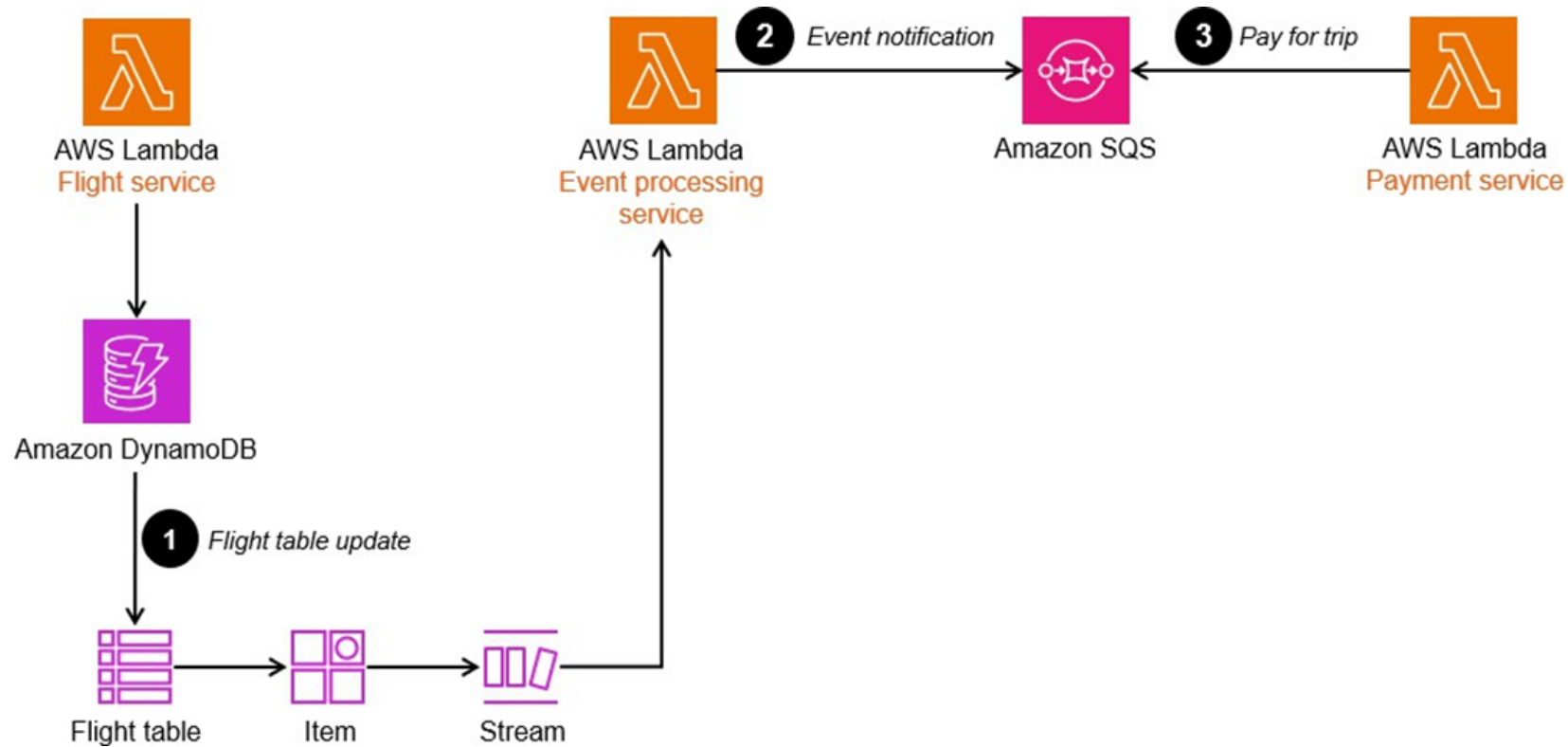
API routing patterns

High-level architecture

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High-level architecture

Overall Summary

By using the patterns to modernize your applications, you can:

- Design and implement reliable, secure, operationally efficient architectures

- Optimize for cost and performance.

- Reduce the cycle time for use cases that require these patterns,

- Focus on organization-specific challenges.

- Accelerate development by standardizing pattern implementations by using AWS services.

- Help your developers build modern applications

- Avoid inheriting technical debt.

THANK YOU