Topics

Pay

Description:

It will hold all messages needed to checkout or rollback a transaction pay

Producers:

- order/checkout: produces initial checkout payment statement
- order consumer: produces a rollback-increment statement (when needed)

Consumers:

- pay consumer: deals with committing changes in durable storage

Stock

Description:

It will hold all messages needed decrement or increment all quantities needed for a transaction. Per transaction there are at most two messages: - one to decrement quantities for all items in an order - the compensation message to increment quantities for all items in an order

Producers:

- order/checkout: produces initial checkout decrement statement
- order consumer: produces a rollback-increment statement (when needed)

Consumers:

- stock consumer

Outcome P&S

Description:

It holds success or failure messages produced by pay consumer and stock consumer relative to their changes in db

Producers:

- pay consumer
- stock consumer

Consumers:

- order consumer

Outcome checkout

Description:

It holds messages relative to the success or failure of transactions as a whole

Producers:

- order consumer

Consumers:

- order/checkout

Pay offsets

Description:

Per partition it holds the offset of the last fully processed message

Producers:

- pay consumer

Consumers:

- pay consumer (when initializing, needed for fault recovery)

Stock offsets

Description:

Per partition it holds the offset of the last fully processed message

Producers:

- stock consumer

Consumers:

- stock consumer (when initializing, needed for fault recovery)

Outcome P&S

Description:

Per partition it holds the offset of the start of the oldest transaction not fully processed

Producers:

- order consumer

Consumers:

- order consumer (when initializing, needed for fault recovery)