

Durable messaging and related patterns, for fun and profit.

Ismael Celis
ismaelcelis.com

Durable messaging and related patterns, for fun and profit.

(But really, just fun)

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Event Sourcing from the ground up, with Ruby examples, part 1

Nov 4, 2025 · Ismael Celis · 6 minutes read

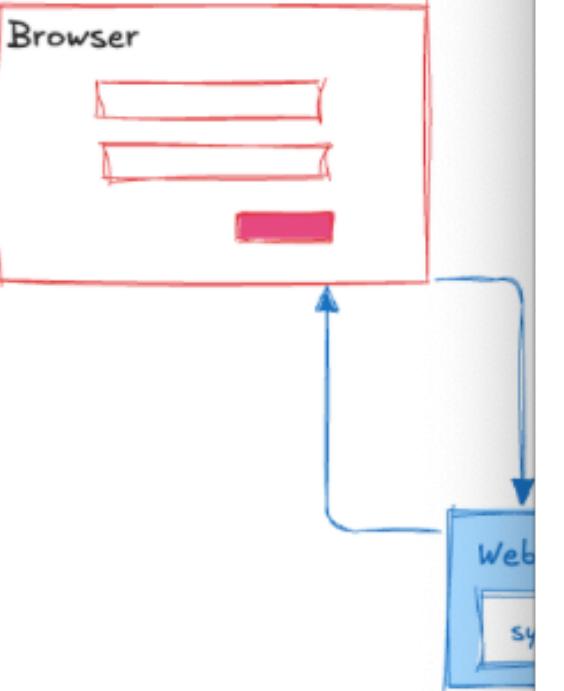
Unfinished business

Apr 21, 2025 · Ismael Celis · 9 minutes read

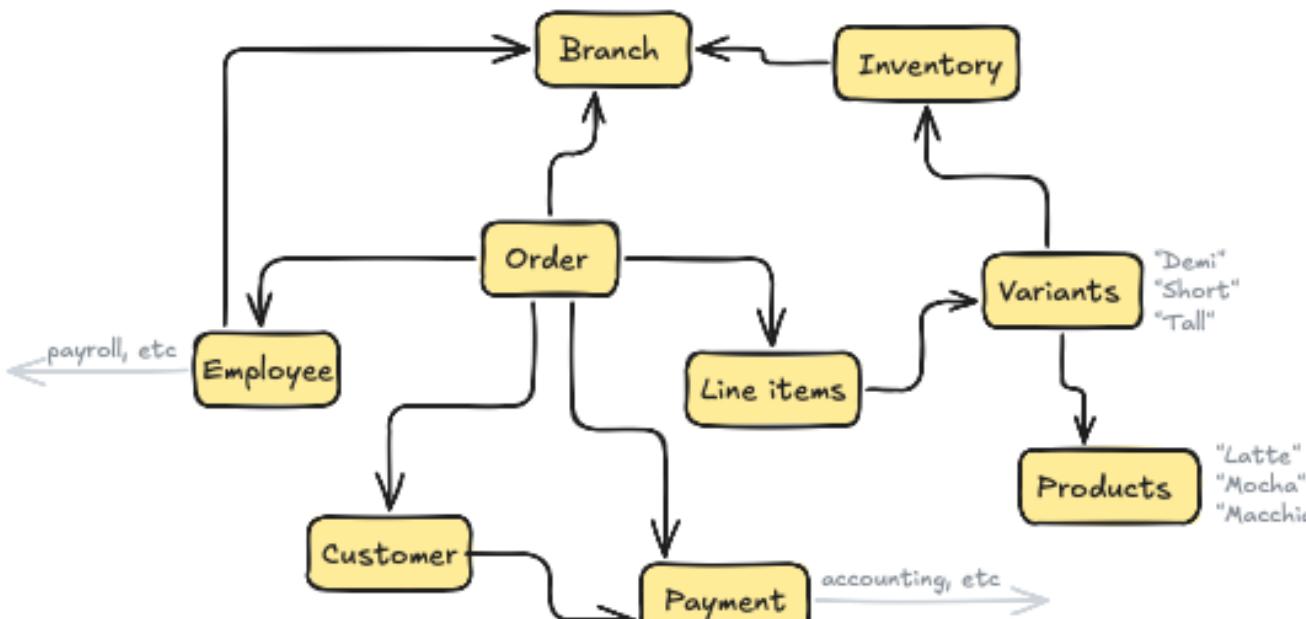
Give it time

The conventional distinction between "background" operations in web development is incomplete.

There, I said it.



This sort of makes sense. While I'm used to going through my day as events in time (wake up, have breakfast, shower, *really* wake up, etc), the act of *understanding* feels like building a graph. When I plan for a new project, my mind jumps to try and form a picture of the current structure of the system. I try to understand how the different components interact with each other, and how they relate to the business domain. I think in hierarchies.



A relational data model for a coffee shop

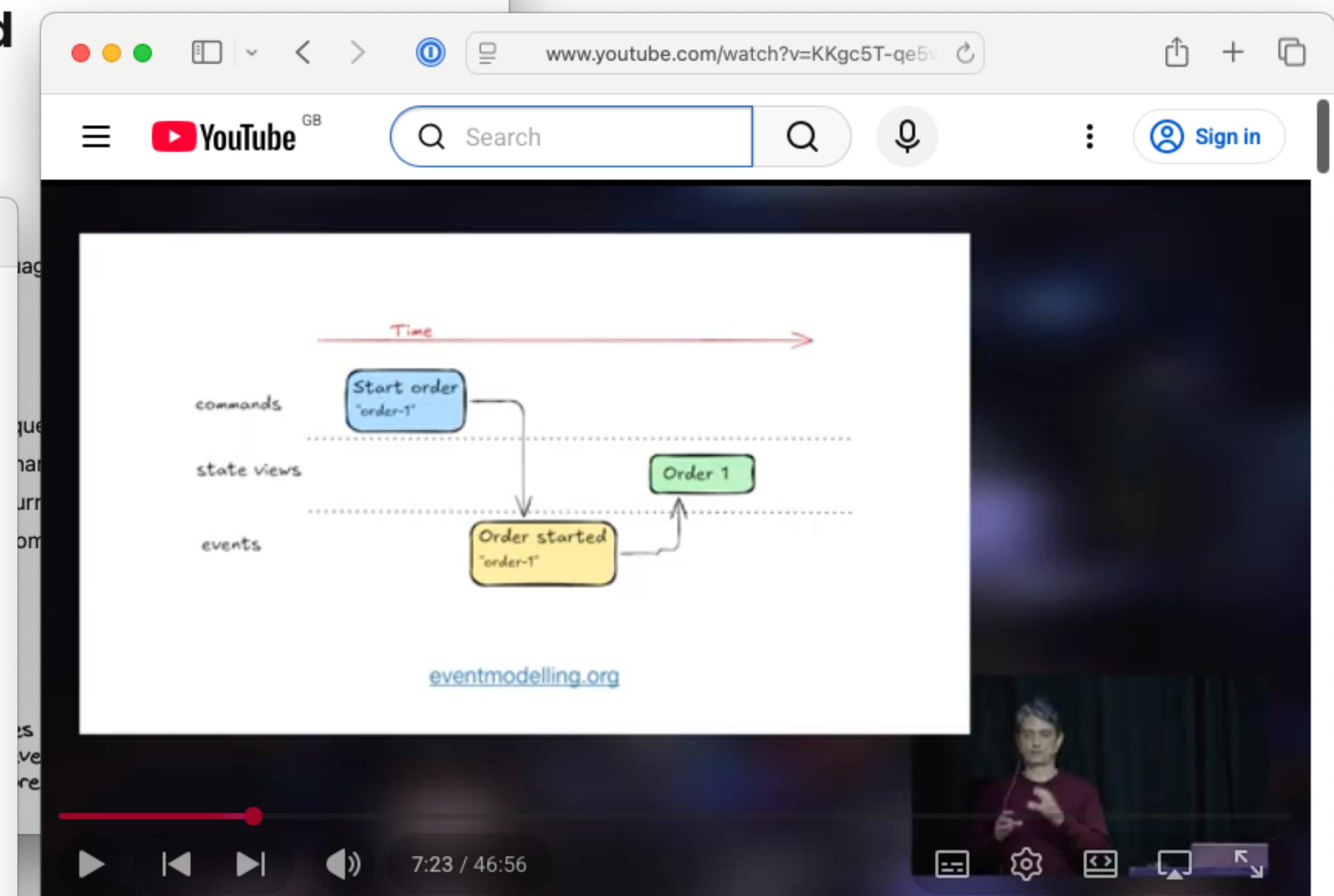
Then I use frameworks and programming paradigms that lean on this intuition. I model conceptual hierarchies as *associations*, and I think about domain entities as being *parents* or *children* of each other. I use statements like "a branch has many orders". "a line item belongs to an order".

www.youtube.com/watch?v=KKgc5T-qe5v

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eventmodelling.org

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localhost:9292/orders/O20250616-AA44E611/8

logged in as ismasan [logout](#)

History sequence: 8 show payloads

8 Order → orders.item_quantity_updated 2025-06-09 16:48:51 +0100
ismasan

7 UI → orders.update_item_quantity 2025-06-09 16:48:51 +0100 ismasan

6 Order → orders.item_added 2025-06-09 16:48:45 +0100 ismasan

5 UI → orders.add_item 2025-06-09 16:48:45 +0100 ismasan

4 Order → orders.item_added 2025-06-09 16:48:33 +0100 ismasan

3 UI → orders.add_item 2025-06-09 16:48:33 +0100 ismasan

2 Order → orders.started 2025-06-09 16:48:20 +0100 ismasan

1 UI → orders.start 2025-06-09 16:48:20 +0100 ismasan

open O20250616-AA44E611

created at 2025-06-09 16:48:20 by ismasan

Latte Medium 2 x £5.40 £10.80

Croissant Almond 1 x £4.60 £4.60

+ PRODUCTS

Sub total: £15.40

VAT: £2.08

Total: £17.48

CANCEL ORDER **PLACE ORDER**

localhost:9292/orders/O20250616-AA44E611

logged in as ismasan [logout](#)

History sequence: 8 show payloads

8 Order → orders.item_quantity_updated 2025-06-09 16:48:51 +0100
ismasan

7 UI → orders.update_item_quantity 2025-06-09 16:48:51 +0100 ismasan

6 Order → orders.item_added 2025-06-09 16:48:45 +0100 ismasan

5 UI → orders.add_item 2025-06-09 16:48:45 +0100 ismasan

4 Order → orders.item_added 2025-06-09 16:48:33 +0100 ismasan

3 UI → orders.add_item 2025-06-09 16:48:33 +0100 ismasan

2 Order → orders.started 2025-06-09 16:48:20 +0100 ismasan

1 UI → orders.start 2025-06-09 16:48:20 +0100 ismasan

open O20250616-AA44E611

created at 2025-06-09 16:48:20 by ismasan

Latte Medium 2 x £5.40 £10.80

Croissant Almond 1 x £4.60 £4.60

+ PRODUCTS

Sub total: £15.40

VAT: £2.08

Total: £17.48

CANCEL ORDER **PLACE ORDER**

Events

```
document.addEventListener("click", function () {  
    // do something  
})
```

Not this.

Durable Events

```
class OrderItem < ApplicationRecord
  after_save :log_event

  private

  def log_activity
    Event.create!(record: self, changes:)
  end
end
```

```
# POST /orders/:order_id/items
def create
  OrderItem.transaction do
    item = order.order_items.create!(item_params)
    Event.log!(item, 'orders.product_added')
    OrderItemProcessingJob.perform_later(item)
  end
end
```

```
ProductAdded = Data.define( :product_id, :quantity)
DiscountAdded = Data.define( :product_id, :amount, :reference)
```

```
# POST /orders/:order_id/items
def create
  event = ProductAdded.new(**item_params)

  item = order.process_event(event)

  OrderItemProcesingJob.perform_later(item)
end
```

```
class Order < ApplicationRecord

  def process_event(event)
    Order.transaction do
      case event

        when ProductAdded
          order_items.create!(product_id: event.product_id, amount: event.amount, ...)

        when DiscountAdded
          item = order_items.find_by(product_id: event.product_id)
          item.add_discount(event.amount, event.reference)
      end

      Event.create!(payload: event)
    end
  end
end
```

PaymentConfirmed

Durable Domain Events

DiscountAdded

What's the point of state?

Past events

1. Order started

2. Product added

3. Discount added

Current state

Order 123

1. Latte (£5.00)
- loyalty discount (£1)

Total: £4.00



```
OrderStarted = Data.define()
ProductAdded = Data.define(:product_id, :quantity, :price)
DiscountAdded = Data.define(:product_id, :amount, :reference)

events = [
    OrderStarted.new(),
    ProductAdded.new('latte', 1, 500),
    DiscountAdded.new('latte', 100, 'loyalty-program')
]

EventStore.append('order-123', events)
```

```
events = EventStore.read('order-123')
order = Order.new # <= this is a PORE
```

```
def evolve(order, events)
  events.each do |event|
    case event
    when OrderStarted
      order.status = 'started'

    when ProductAdded
      order.add_product(event.product_id, event.quantity, ...)

    when DiscountAdded
      order.add_product_discount(event.product_id, event.amount, ...)

    end
  end
end
```

Initial	€0.00
Travel budget	+ €1,000.00
Flight	- €300.00
Hotel room	- €100.00
Bus ticket	- €1.50

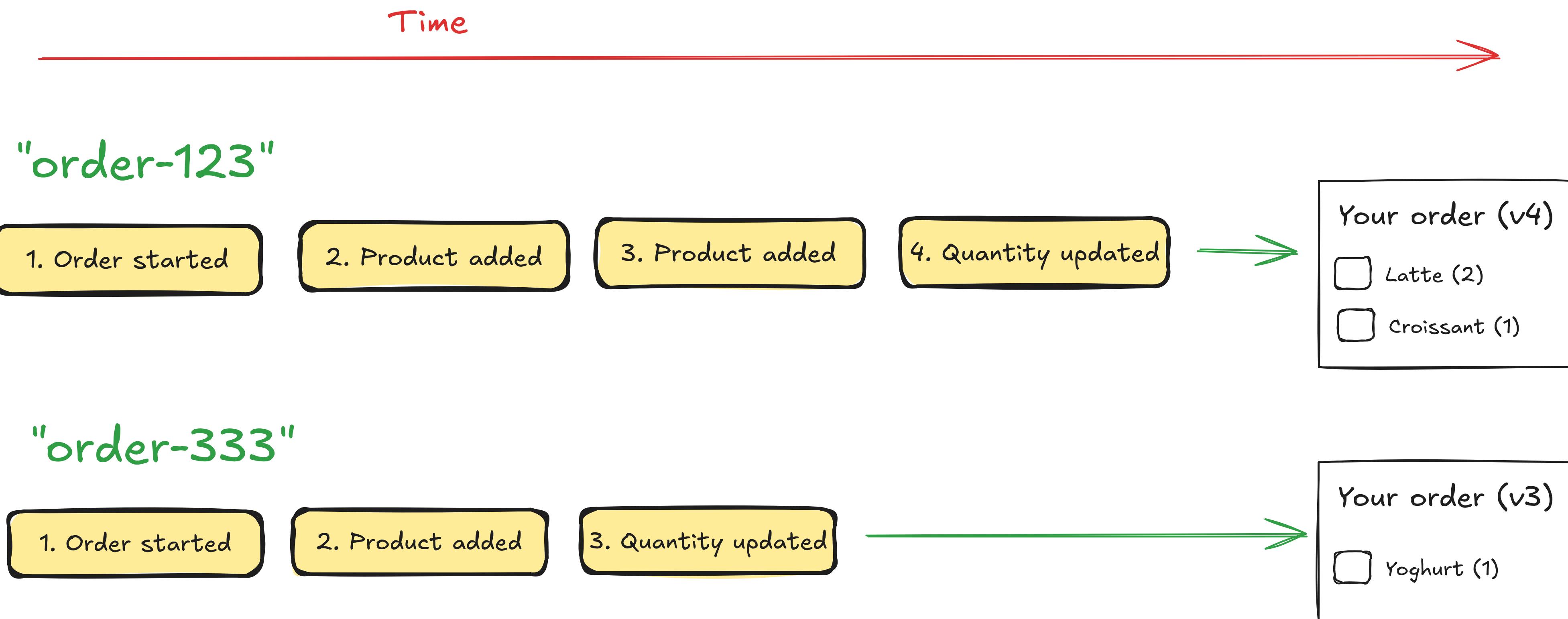
Balance €598.50

Events



Current state





localhost:9292/orders/O20251111-7238A751/1

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[Home](#) [Cashier](#) [Barista](#)

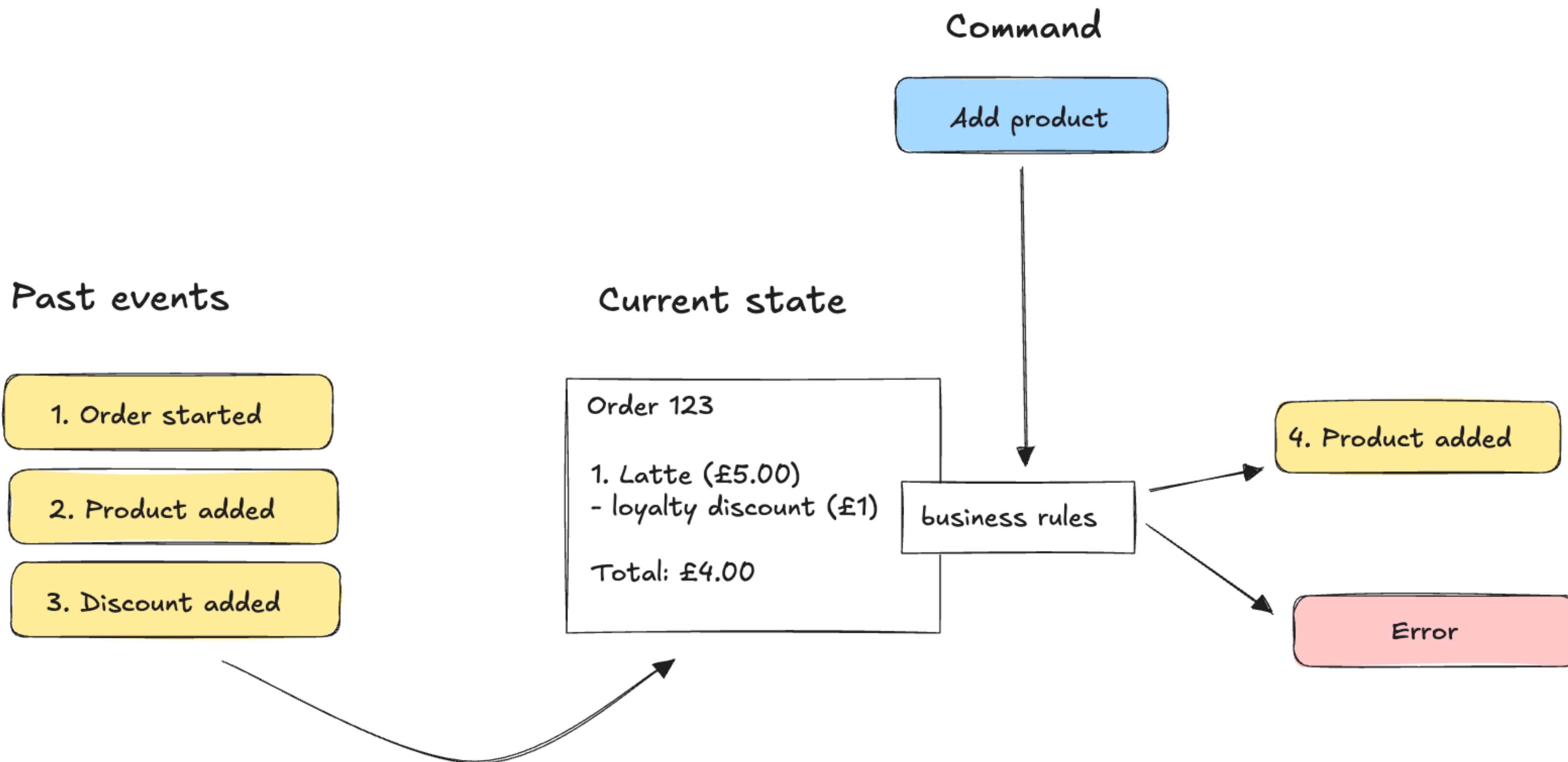
O20251111-7238A751

new **auditing**

History sequence: 1 show payloads

Sequence	Action	Event	Timestamp	User
24	Payment	→ orders.payment_confirmed	2025-11-09 11:02:21 +0000	Ismael
23	Payment	→ orders.confirm_payment	2025-11-09 11:02:21 +0000	Ismael
22	UI	→ orders.payment_started	2025-11-09 11:02:16 +0000	Ismael
21	UI	→ orders.start_payment	2025-11-09 11:02:16 +0000	Ismael
20	UI	→ orders.customer_name_set	2025-11-09 11:02:00 +0000	Ismael
19	UI	→ orders.set_customer_name	2025-11-09 11:02:00 +0000	Ismael
18	UI	→ orders.placed	2025-11-09 11:01:48 +0000	Ismael
17	UI	→ orders.place	2025-11-09 11:01:48 +0000	Ismael
16	UI	→ orders.item_added	2025-11-09 11:01:41 +0000	Ismael
15	UI	→ orders.add_item	2025-11-09 11:01:41 +0000	Ismael
14	UI	→ orders.item_removed	2025-11-09 11:01:38 +0000	Ismael
13	UI	→ orders.remove_item	2025-11-09 11:01:38 +0000	Ismael
12	UI	→ orders.item_added	2025-11-09 11:01:34 +0000	Ismael
11	UI	→ orders.add_item	2025-11-09 11:01:34 +0000	Ismael
10	UI	→ orders.item_added	2025-11-09 11:01:31 +0000	Ismael





```
AddProduct = Data.define(:order_id, :product_id, :quantity, :price)
ProductAdded = Data.define(:product_id, :quantity, :price)
```

```
command = AddProduct.new('order-123', 'latte', 1, 500)
```

```
order = Order.new
```

```
past_events = EventStore.read(command.order_id)
```

```
evolve(order, events) # <= build up state from past events
```

```
new_events = decide(order, command) # <= produce new events
```

```
EventStore.append(command.order_id, new_events)
```

```
AddProduct = Data.define(:order_id, :product_id, :quantity, :price)
ProductAdded = Data.define(:product_id, :quantity, :price)

command = AddProduct.new('order-123', 'latte', 1, 500)

order = Order.new

past_events = EventStore.read(command.order_id)

evolve(order, events) # <= build up state from past events

new_events = decide(order, command) # <= produce new events

EventStore.append(command.order_id, new_events)
```

```
AddProduct = Data.define(:order_id, :product_id, :quantity, :price)
ProductAdded = Data.define(:product_id, :quantity, :price)

command = AddProduct.new('order-123', 'latte', 1, 500)

order = Order.new

past_events = EventStore.read(command.order_id)

evolve(order, events) # <= build up state from past events

new_events = decide(order, command) # <= produce new events

EventStore.append(command.order_id, new_events)
```

```
def decide(order, command)
  new_events = []

  case command
  when AddProduct
    if order.open?
      new_events << ProductAdded.new(command.product_id, ...)
    end
  when RemoveProduct
    # etc
  end

  new_events
end
```

localhost:9292/barista

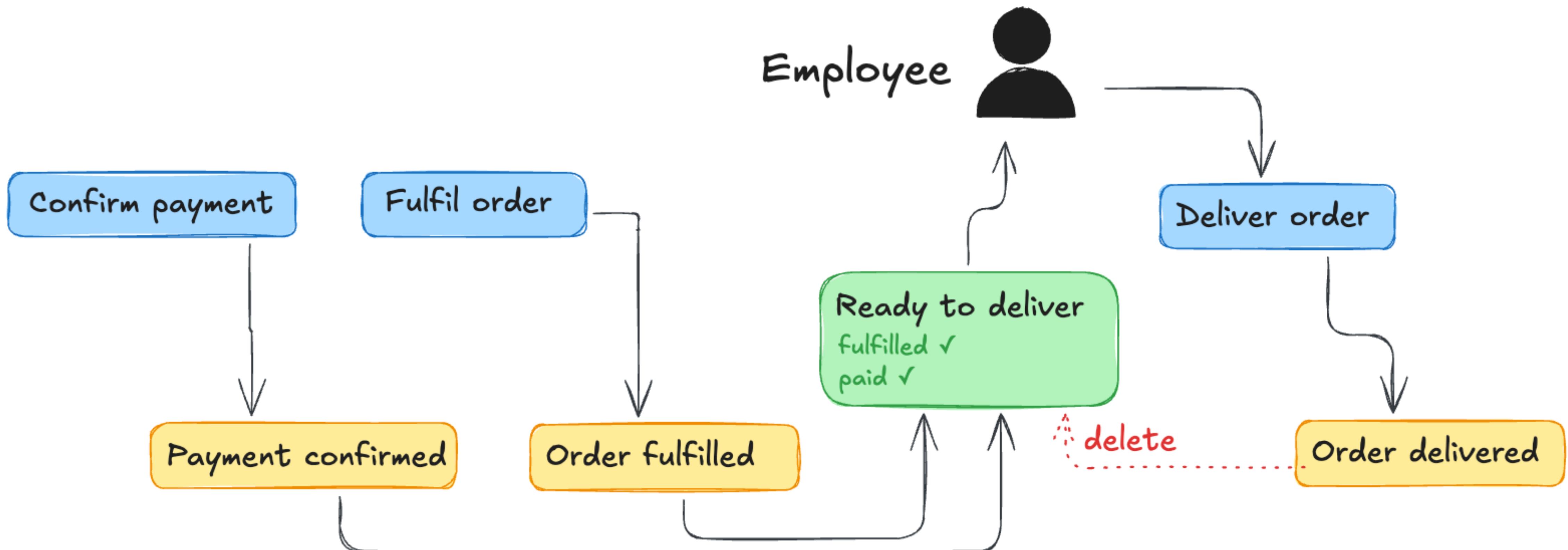
Home Cashier Barista logout

Ready to deliver

ORDER ID	CUSTOMER	
O20251122-9B69BE76	details	<button>DELIVER</button>
O20251122-2268E93D	details	<button>DELIVER</button>
O20251122-F15D589E	details	<button>DELIVER</button>
O20251116-F4D2C624	details	<button>DELIVER</button>
O20251116-B09A4AOA	details	<button>DELIVER</button>
O20251116-3877C3E4	details	<button>DELIVER</button>
O20251116-2315A77A	details	<button>DELIVER</button>

Placed orders

STATUS	ORDER ID	FULFILMENT	PAYMENT
--------	----------	------------	---------



```
event Order::OrderFulfilled do |state, event|
  state[:fulfilled] = true
  check_deliverable(state)
end
```

```
event Order::PaymentConfirmed do |state, event|
  state[:paid] = true
  check_deliverable(state)
end
```

```
def check_deliverable(state)
  state[:status] = 'ready' if state[:fulfilled] && state[:paid]
end
```

```
# This block runs in a transaction when handling events

sync do |state:, events:, replaying:|
  path = File.join(DATA_DIR, "#{state[:id]}.json")

  File.write(path, JSON.pretty_generate(state.to_h))
end
```

```
event Order::CustomerNameSet do |state, event|
  state[:customer_name] = event.payload.customer_name
end
```

localhost:9292/barista

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[Home](#) [Cashier](#) **Barista**

Ready to deliver

No orders to deliver

Placed orders

STATUS	ORDER ID	FULFILMENT	PAYMENT
placed	O20251122-C8D8C53F		--
placed	O20251122-96530D24		--
placed	O20251115-C0BD932E		paid ✓
placed	O20251115-0C4240CE		paid ✓
placed	O20251116-B4E69C89		--
placed	O20251116-E7C8CDC9		paid ✓

localhost:9292/sourced

[back to Coffee Shop](#)

[System](#) [Reactors](#)

Sourced Dashboard

Global Event Stream (48 streams) tip: 633

Deliverables active [Stop](#) [Reset](#) (22 streams)

Order active [Stop](#) [Reset](#) (26 streams)

OrderListings active [Stop](#) [Reset](#) (26 streams)

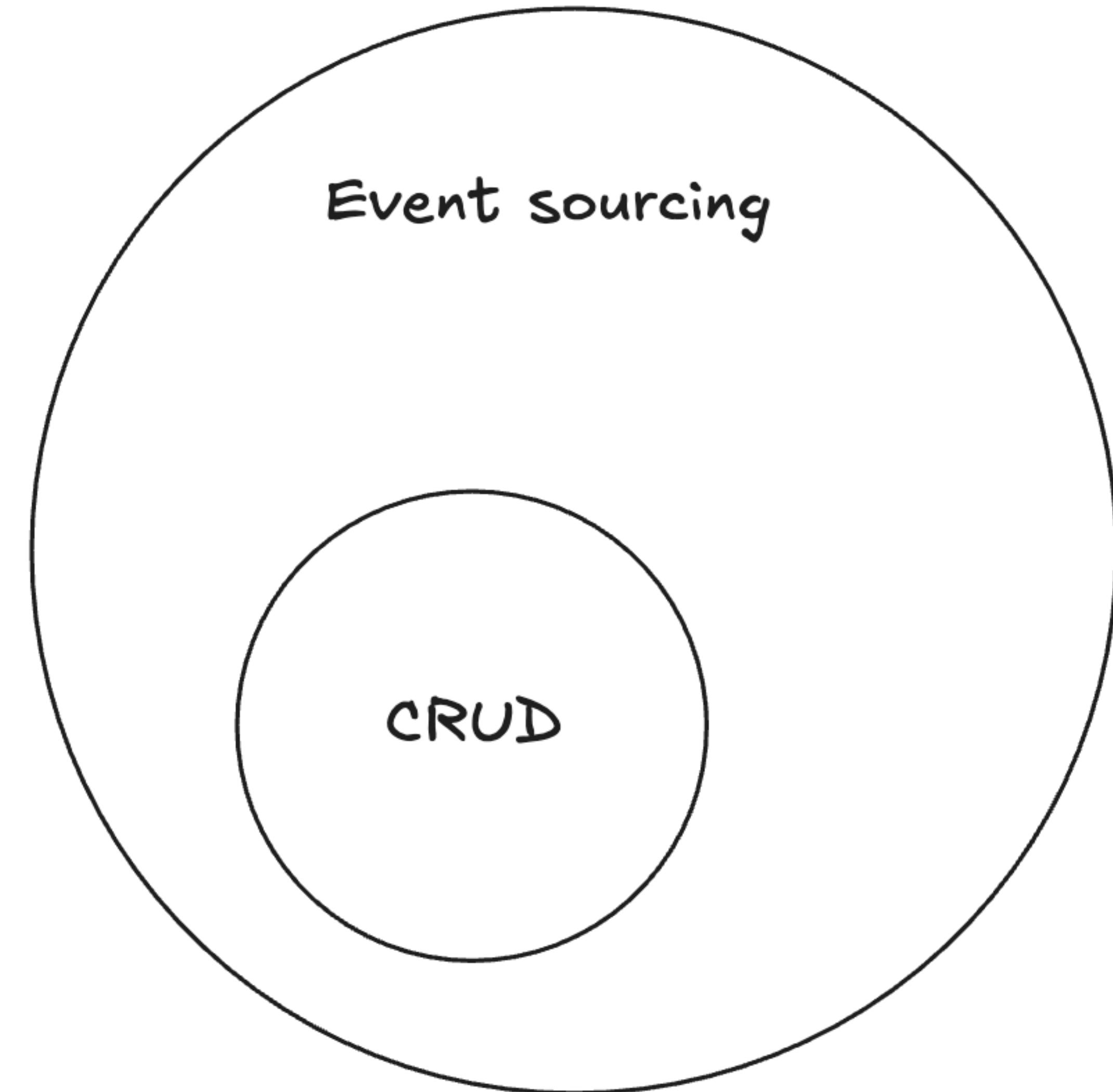
Payment active [Stop](#) [Reset](#) (22 streams)

PaymentListings active [Stop](#) [Reset](#) (22 streams)

Recent streams

18 [O20251122-9B69BE76](#)
2025-11-07 22:37:05 +0000

4 [payment-O20251122-9B69BE76](#)



localhost:9292/barista

Barista - Sourced Coffee

Home Cashier Barista logout

Placed orders

STATUS	ORDER ID	FULFILMENT	PAYMENT
placed	O20251116-C82D028A	---	--
placed	O20251115-C0BD932E	green, yellow, grey	paid ✓
placed	O20251115-0C4240CE	green, yellow, orange	paid ✓
placed	O20251116-B4E69C89	yellow	--
placed	O20251116-E7C8CDC9	--	--

Ready to deliver

No orders to deliver

localhost:9292/orders/O20251116-C82D028A

new O20251116-C82D028A - Sourced Coffee

placed O20251116-C82D028A

created at 2025-11-06 16:09:01 by Ismael [fulfillment](#)

Espresso Double Shot	1 x £3.60 £3.60
Cappuccino Small	1 x £4.20 £4.20

Sub total: £7.80

VAT: £1.05

Total: £8.85

pending Payment



Customer name [EDIT](#)

Joe

History

sequence: 10 show payloads

- 10 UI → orders.customer_name_set 2025-11-06 16:09:27 +0000 Ismael
- 9 UI → orders.set_customer_name 2025-11-06 16:09:27 +0000 Ismael
- 8 UI → orders.placed 2025-11-06 16:09:17 +0000 Ismael
- 7 UI → orders.place 2025-11-06 16:09:17 +0000 Ismael
- 6 UI → orders.item_added 2025-11-06 16:09:10 +0000 Ismael
- 5 UI → orders.add_item 2025-11-06 16:09:10 +0000 Ismael
- 4 UI → orders.item_added 2025-11-06 16:09:07 +0000 Ismael
- 3 UI → orders.add_item 2025-11-06 16:09:07 +0000 Ismael
- 2 UI → orders.started 2025-11-06 16:09:01 +0000 Ismael
- 1 UI → orders.start 2025-11-06 16:09:01 +0000 Ismael

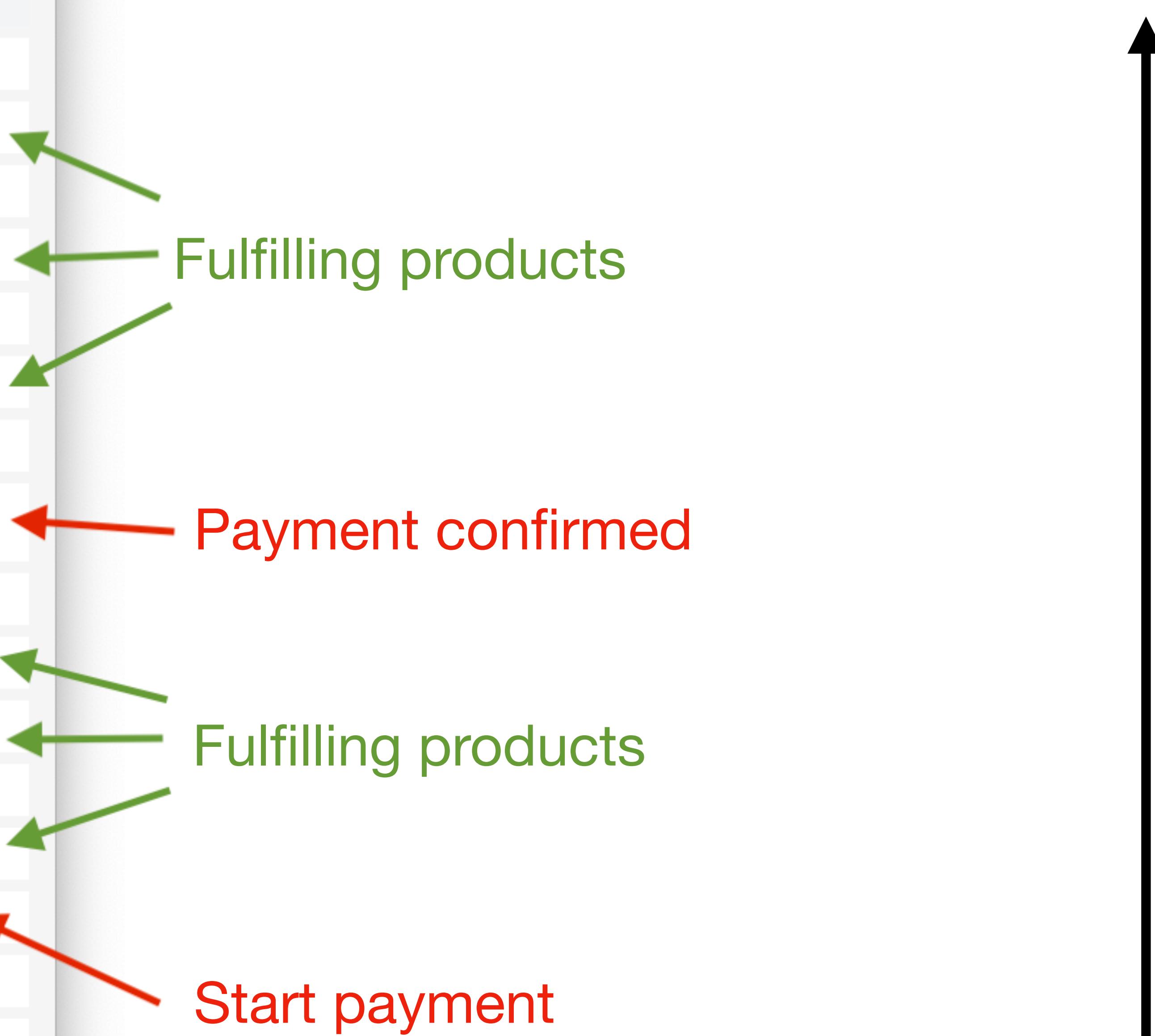
History



sequence: 26

 show payloads

26	UI →	orders.order_delivered	2025-11-06 16:10:22 +0000	Ismael
25	UI →	orders.deliver_order	2025-11-06 16:10:22 +0000	Ismael
24	Order →	orders.order_fulfilled	2025-11-06 16:10:16 +0000	Ismael
23	Order →	orders.fulfill_order	2025-11-06 16:10:16 +0000	Ismael
22	UI →	orders.item_fulfilled	2025-11-06 16:10:16 +0000	Ismael
21	UI →	orders.fulfill_item	2025-11-06 16:10:16 +0000	Ismael
20	UI →	orders.item_fulfillment_started	2025-11-06 16:10:14 +0000	Ismael
19	UI →	orders.start_item_fulfillment	2025-11-06 16:10:14 +0000	Ismael
18	Payment →	orders.payment_confirmed	2025-11-06 16:10:14 +0000	Ismael
17	Payment →	orders.confirm_payment	2025-11-06 16:10:14 +0000	Ismael
16	UI →	orders.item_fulfilled	2025-11-06 16:10:10 +0000	Ismael
15	UI →	orders.fulfill_item	2025-11-06 16:10:10 +0000	Ismael
14	UI →	orders.item_fulfillment_started	2025-11-06 16:10:09 +0000	Ismael
13	UI →	orders.start_item_fulfillment	2025-11-06 16:10:09 +0000	Ismael
12	UI →	orders.payment_started	2025-11-06 16:10:06 +0000	Ismael
11	UI →	orders.start_payment	2025-11-06 16:10:06 +0000	Ismael
10	UI →	orders.customer_name_set	2025-11-06 16:09:27 +0000	Ismael
9	UI →	orders.set_customer_name	2025-11-06 16:09:27 +0000	Ismael



Eventual Consistency

SHIP TO (GBP) / English Porcelain crafted in Manifattura Ginori – Italy SUBSCRIBE TO OUR NEWSLETTER

GINORI 1735 NEW IN COLLECTIONS TABLETOP HOME DECOR FRAGRANCES GIFTS MAISON HOSPITALITY

Home > All Collections > Oriente Italiano > Ming Vase

SHARE

 >



MING VASE
RUBRUM
ORIENTE ITALIANO
£700

Dimensions
1 9.84 inch / Ø max. 6.30 inch /
2.65 pound

AVAILABLE IN 11 OTHER DESIGNS



- 1 + ADD TO CART

Exclusive box included Made in Italy Pure gold

Description
Ming porcelain vase with red and pure gold Rubrum decoration.
Oriente Italiano Gold Collection.

Expression of the savoir faire of excellence and Italian craftsmanship, the Ming vase combines the mastery of the Ginori 1735 artisans with oriental lines, for a collector's art object, in which the decoration enhances the intense red of the porcelain in contrast with the floral motif in pure gold, making it the protagonist in every environment. Also available in the refined Aurum variant in white and gold, it completes the proposal of the Oriente Italiano Gold Collection, in an assortment of tableware, tea and coffee, other furnishing accessories and sophisticated room

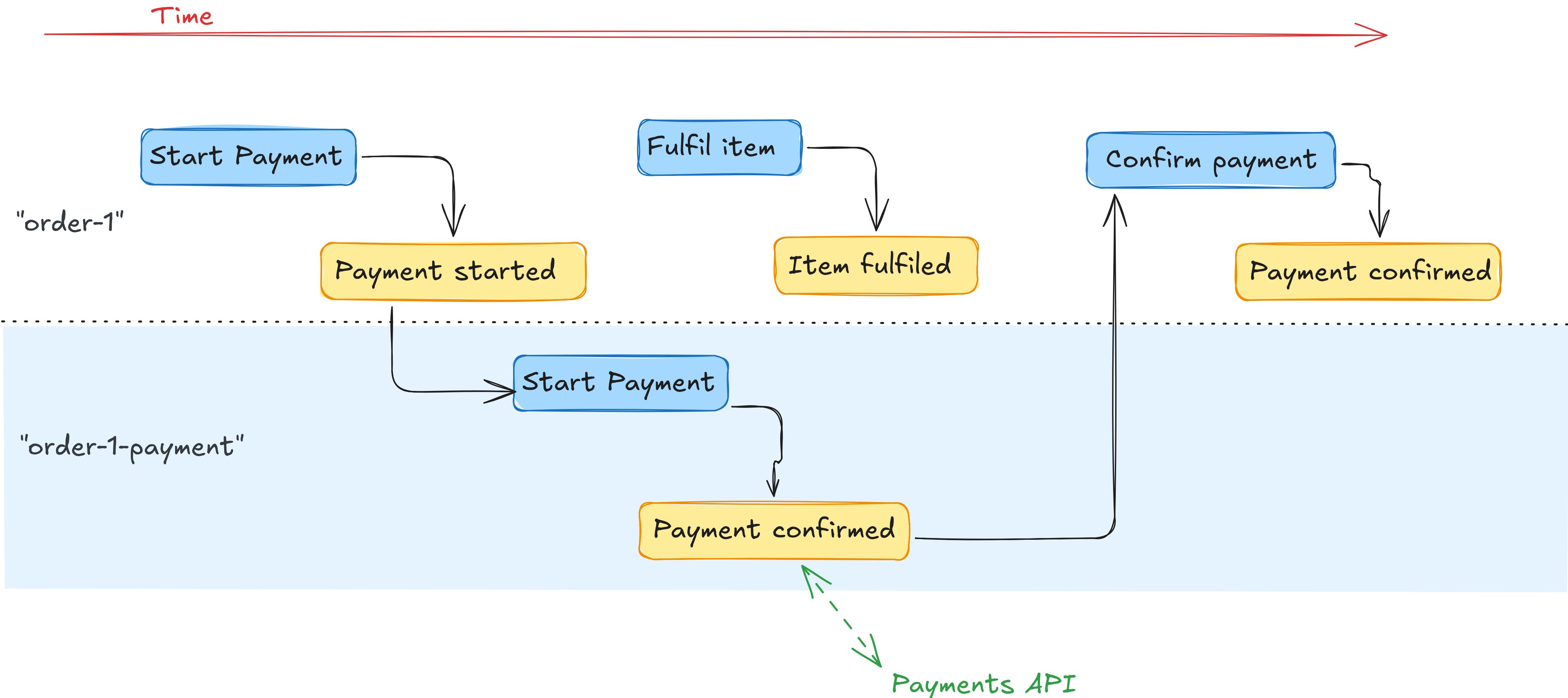
This item is shipped in 1-3 working days.
Discover our [delivery times](#).

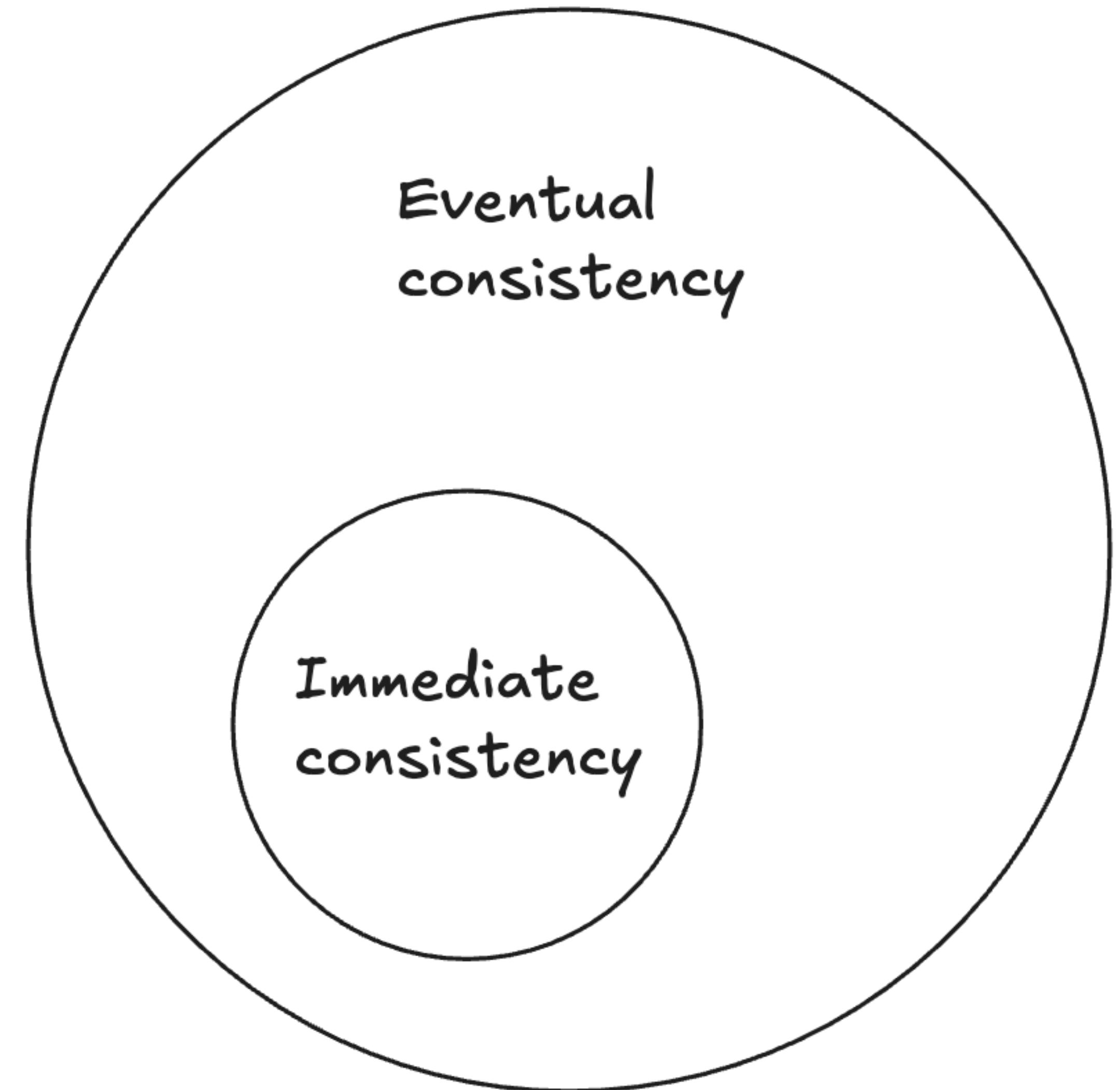
Maintenance
Do not microwave
Hand-wash only



```
# POST /orders/:order_id/payment
def create
  order = Order.find(params[:order_id])
  payment = Payment.start(params[:params])
  PaymentProcessingJob.perform_later(payment)
  redirect_to order_url(order)
end
```

Just model the workflow!





The runtime

github.com/ismasan/sourced

```
# ./domain.rb
require 'sourced'

class Order
  extend Sourced::Consumer

    def self.handled_messages
      [Start, AddProduct, RemoveProduct]
    end

    def self.handle(message)
      p [:new_message, message.inspect]
      Sourced::Actions::OK
    end
end
```

```
# bundle exec ruby ./bin/workers.rb
```

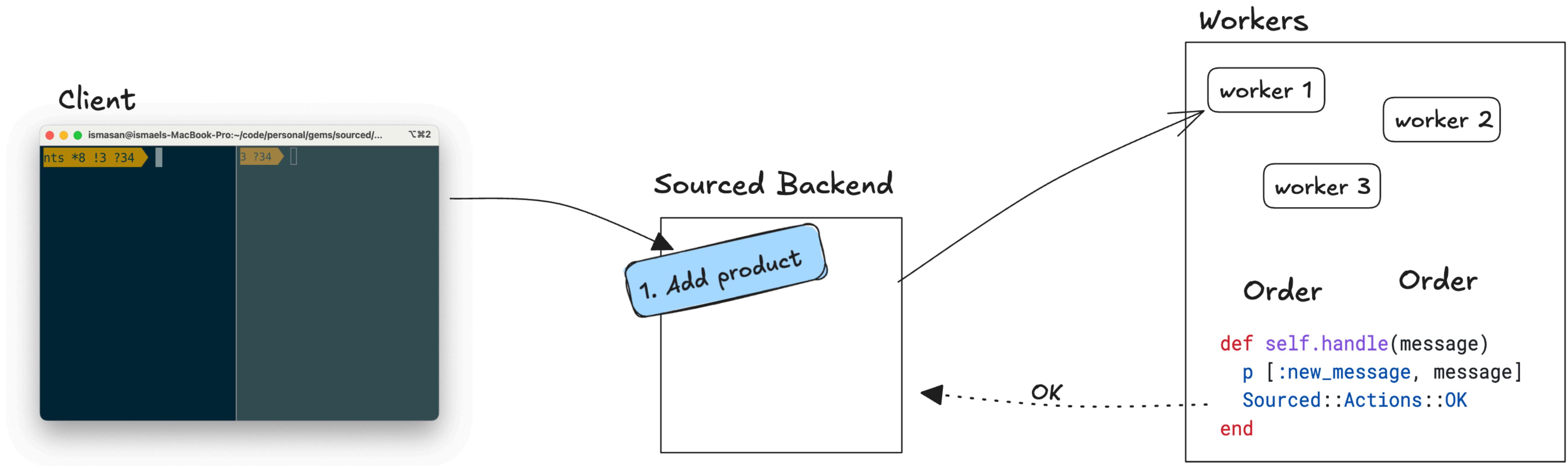
```
require_relative '../domain'
```

```
Sourced::Supervisor.start(count: 10)
```

```
# bundle exec irb -r ./domain.rb  
command = StartOrder.build('order-123')  
  
Sourced.dispatch(command)
```

bundle exec irb -r ./domain.rb

```
irb(main):012> command = StartOrder.build('order-3')
=> #<StartOrder:162420 [valid] id:"ece1fee8-ec71-4c4b-9de4-050ab4037555" stream_id:"order-3" c..
irb(main):013> Sourced.dispatch(command)
```

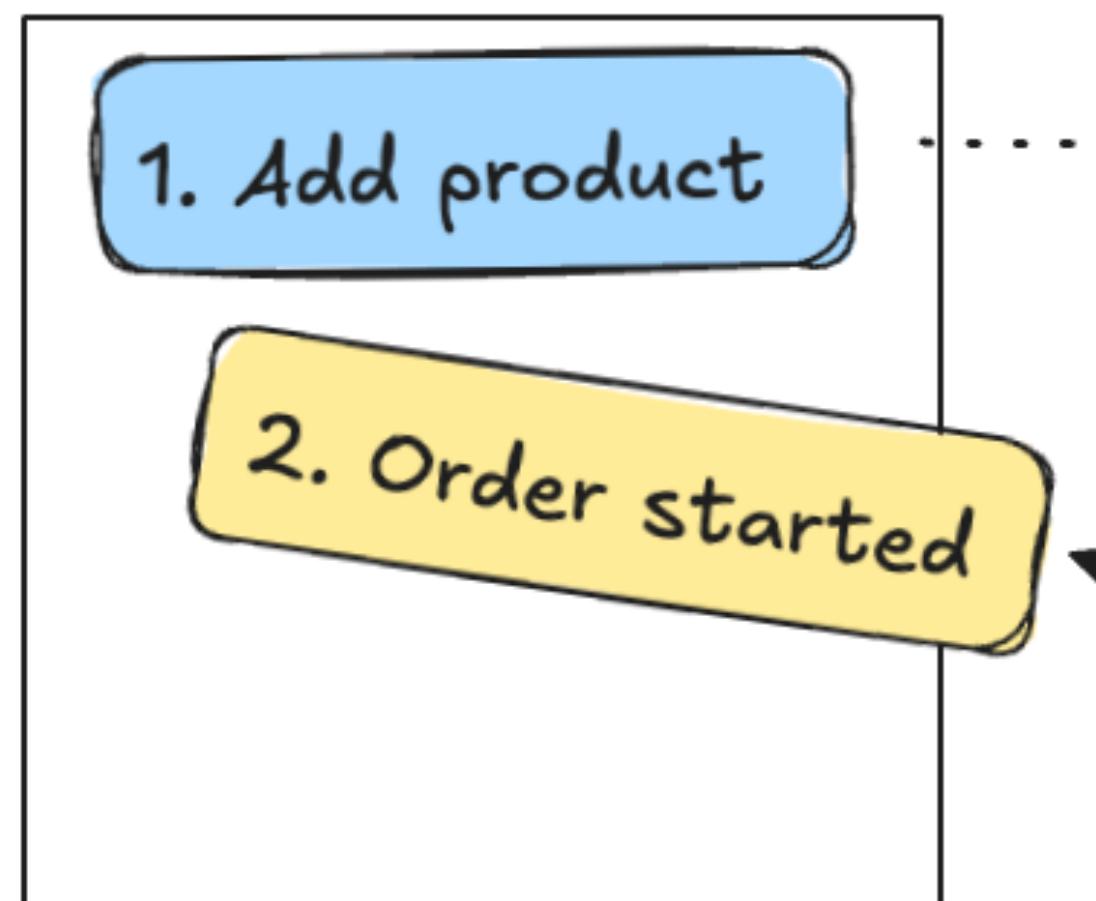


```
def self.handle(message)
    started = OrderStarted.build(message.stream_id)

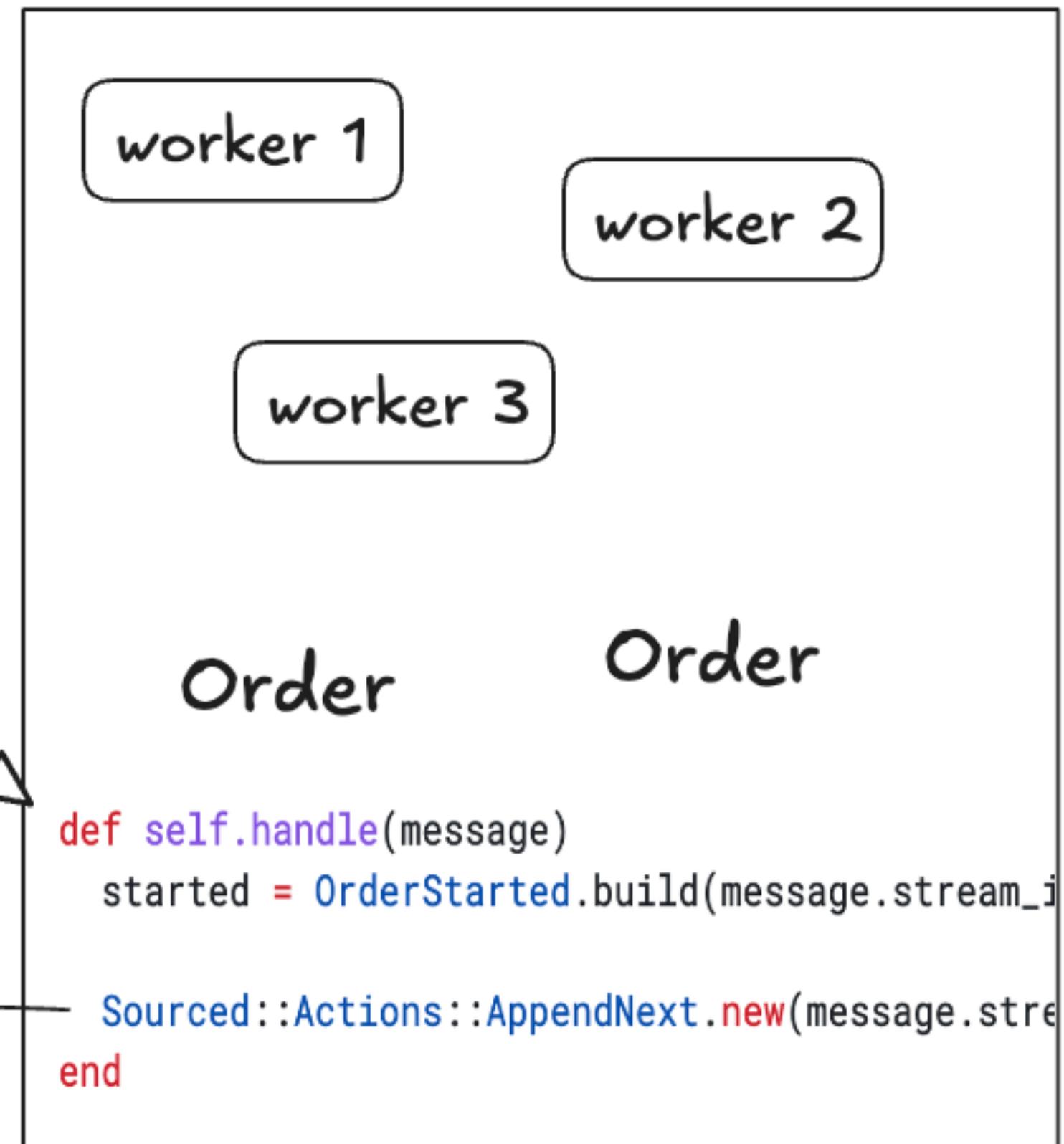
    Sourced::Actions::AppendNext.new([started])
end
```



Sourced Backend



Workers



Event correlation

show payloads

CLOSE

23 UI → **orders.start_payment** 2025-06-10 15:39:23 +0300 ismasan

24 Order → **orders.payment_started** 2025-06-10 15:39:23 +0300 ismasan

1 Order → **payment.start** 2025-06-10 15:39:23 +0300 ismasan

2 Payment → **payment.started** 2025-06-10 15:39:23 +0300 ismasan

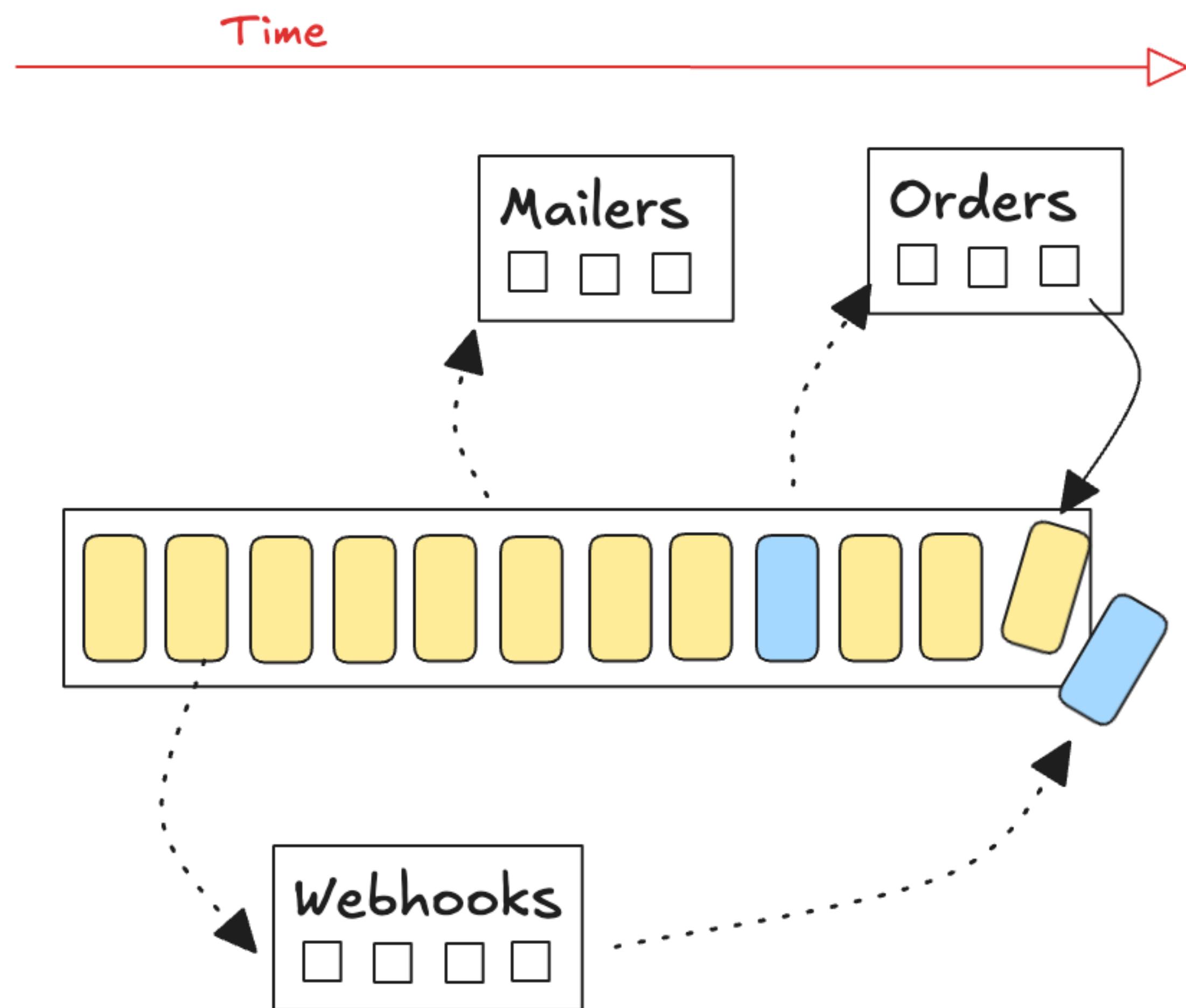
3 Payment → **payment.confirm** 2025-06-10 15:39:28 +0300 ismasan

4 Payment → **payment.confirmed** 2025-06-10 15:39:28 +0300 ismasan

29 Payment → **orders.confirm_payment** 2025-06-10 15:39:28 +0300 ismasan

30 Order → **orders.payment_confirmed** 2025-06-10 15:39:28 +0300 ismasan

Autonomy



```
class Webhooks
  extend Sourced::Consumer

  def self.handled_messages
    [OrderStarted, OrderPlaced]
  end

  def self.handle(message)
    HTTP.post('https://hooks.slack.com/...', message.to_json)

    notified = OrderNotified.build(message.stream_id)
    Sourced::Actions::AppendNext.new([notified])
  end
end
```

```
def self.handle(command, history:)
  order = Order.new
  evolve(order, history)
  decide(order, command) # <= produce new events
end
```

```
class Order
  include Sourced::Handler

  on StartOrder do |cmd, history|
    # etc
    [new_message]
  end

  on AddProduct do |cmd, history|
    # etc
    [new_message]
  end
end
```

```
class Order < Sourced::Actor
  state do |stream_id|
    Order.new(stream_id)
  end

  command AddProduct do |order, cmd|
    return unless order.open?

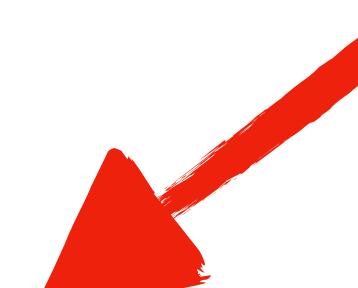
    event ProductAdded, cmd.payload
  end

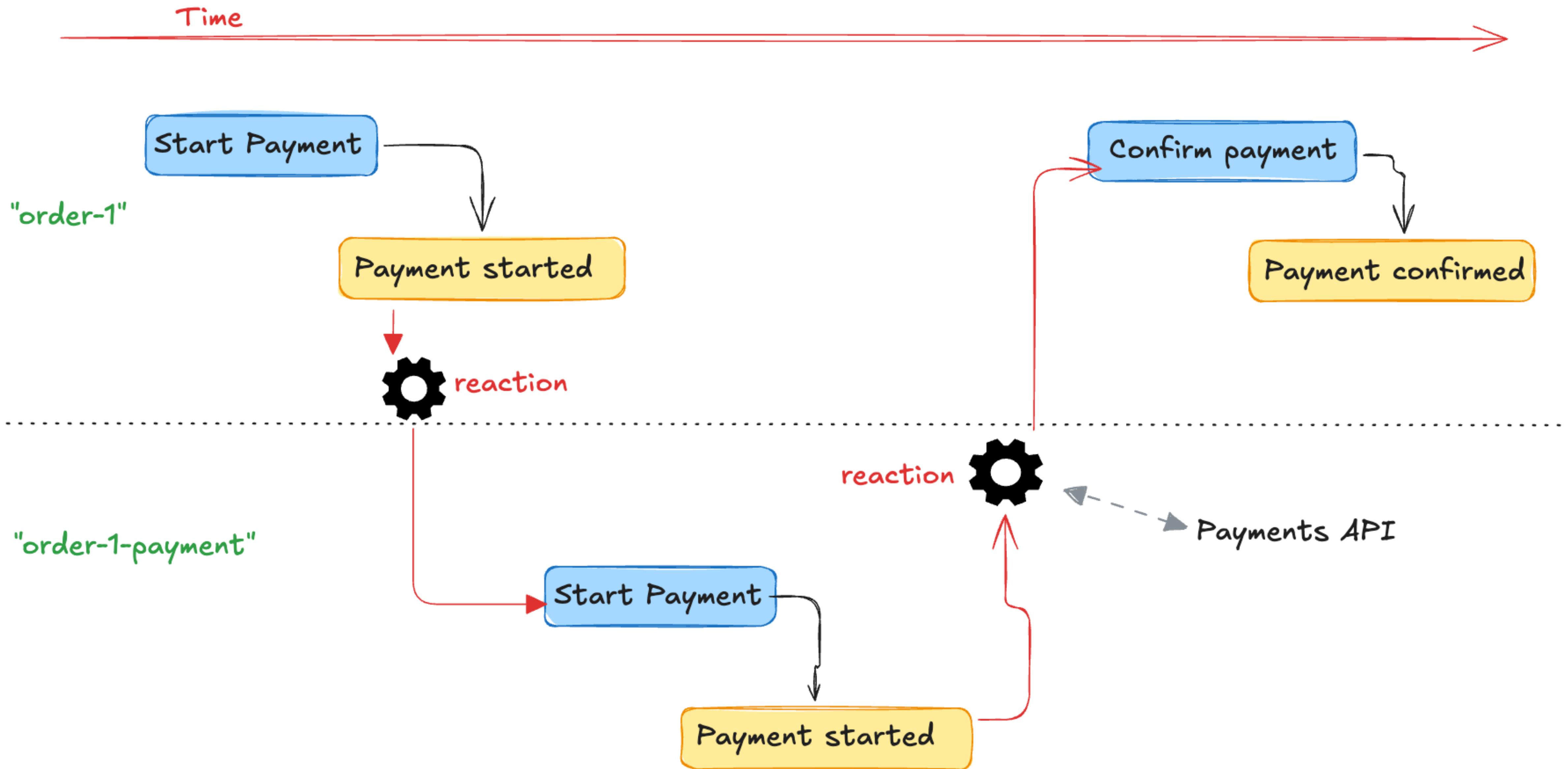
  event ProductAdded do |order, event|
    order.add_product(event.payload)
  end
end
```

```
class Order < Sourced::Actor
# ...

event PaymentStarted do |order, event|
  order.payment.status = :started
end

reaction PaymentStarted do |order, event|
  dispatch(Payment::StartPayment, order.payment).to("#{order.id}-payment")
end
end
```





Durable execution

```
class BookHolidays < Sourced::DurableWorkflow
  def execute(flight_info, hotel_info, car_info)
    flight_booking = book_flight(flight_info)
    hotel_booking = book_hotel(hotel_info)
    car_booking = book_car(car_info)
    confirm_booking(flight_booking, hotel_booking, car_booking)
  end
```

```
durable def book_flight(flight_info)
  FlightsAPI.book(flight_info)
end
```

```
durable def book_hotel(hotel_info)
  HotelsAPI.book(hotel_info)
end
```

```
durable def book_car(car_info)
  CarsAPI.bool(car_info)
```

```
irb(main):001> p BookHolidays.execute('flight', 'hotel', 'car').wait.output
```

Event correlation

```
}
```

```
8 book_holidays.step.started 2025-11-08 11:50:50 +0000
{
  "key": "-426133596824165456",
  "step_name": "confirm_booking",
  "args": [
    {
      "ok": true,
      "ref": "BA 143"
    },
    {
      "ok": true,
      "ref": "Radisson Riga"
    },
    {
      "ok": true,
      "ref": "Kia Sportage"
    }
  ]
}
```

```
9 book_holidays.step.complete 2025-11-08 11:50:52 +0000
{
  "key": "-426133596824165456",
  "step_name": "confirm_booking",
  "output": "Booking confirmed! Flight: BA 143. Hotel: Radisson Riga. Car: Kia Sportage"
}
```

```
10 book_holidays.workflow.complete
2025-11-08 11:50:52 +0000
{
  "output": "Booking confirmed! Flight: BA 143. Hotel: Radisson Riga. Car: Kia Sportage"
}
```

Close

```
class HolidayLogger
  include Sourced::Handler

  on BookHolidays::StepComplete do |event|
    p [event.payload.step_name, 'complete!']
  []
end

on BookHolidays::WorkflowComplete do |event|
  p ['Booking complete!', event.stream_id, event.payload.output]
[]
end
end
```

```
Sourced.register(HolidayLogger)
```



bundle exec irb -r ./boot.rb

```
irb(main):003> p BookHolidays.execute('flight', 'hotel', 'car').wait.output
```

Testing

```
command = Order::AddProduct.build('order-1', product_id: 'latte', ...)

actions = Order.handle(command, history: [...])

expect(actions.first).to be_a(Sourced::Actions::AppendAfter)
expect(actions.first.messages).to eq([...])
```

```
RSpec.describe Payment do
  subject(:payment) { Payment.new(id: 'payment-1') }

  it 'starts a payment' do
    with_reactor(payment)
      .when(Payment::Start, order_id: 'o1', amount: 1000)
      .then(Payment::Started.build(payment.id, order_id: 'o1', amount:
end

it 'is a no-op if payment already started' do
  with_reactor(payment)
    .given(Payment::Started, order_id: 'o1', amount: 1000)
    .when(Payment::Start, order_id: 'o1', amount: 1000)
    .then([])
end
```

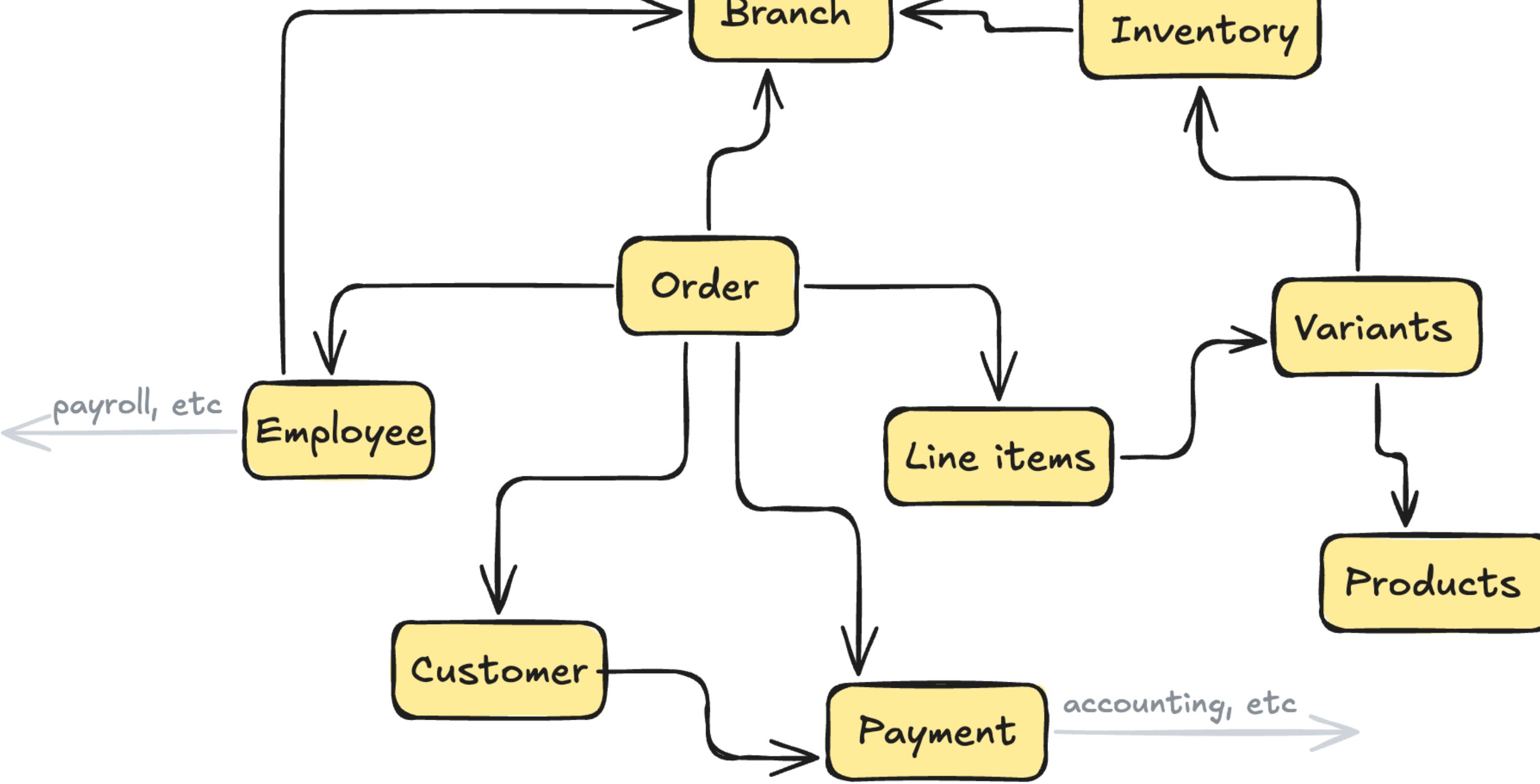
```
with_reactors(Order, Payment)
```

```
# 1. Setup current state of the world
.given(Order::Started.build('order-1'))
.given(Order::ProductAdded.build('order-1', id: 'latte', price: 100))
.given(Order::Placed.build('order-1'))

# 2. Dispatch new command
.when(Order::StartPayment.build('order-1'))

# 3. Expect new events
.then do |_ , new_messages|
  expect(new_messages).to match_sourced_messages([
    Order::StartPayment.build('order-1'),
    Order::PaymentStarted.build('order-1', amount: 100),
    Payment::Process.build('order-1-payment', amount: 100),
    Payment::Processed.build('order-1-payment', reference: 'p123')
  ])
end
```

What this does to code

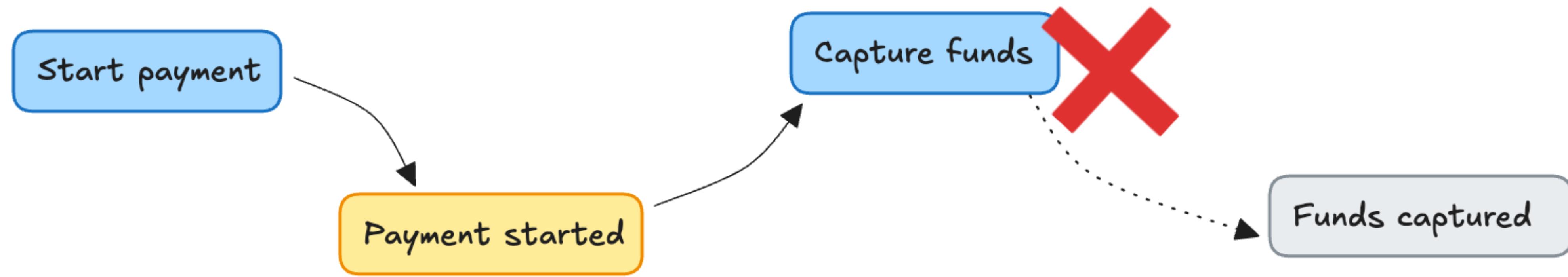


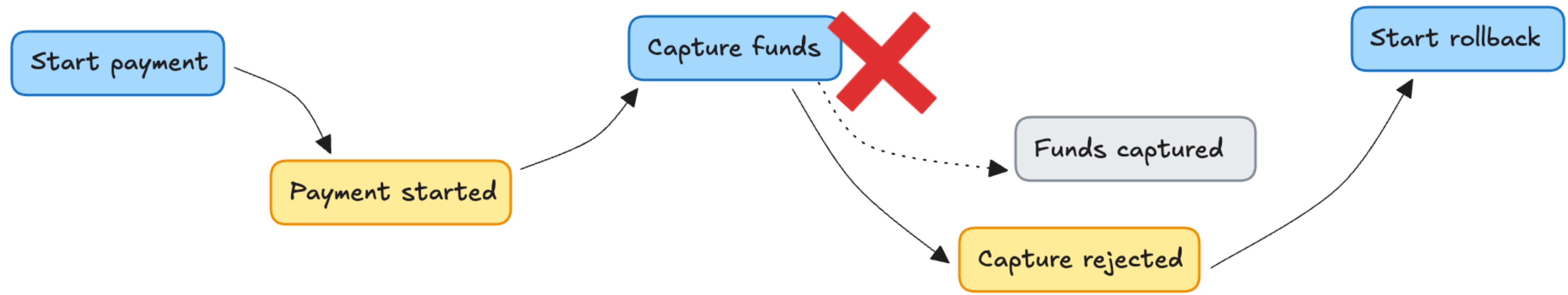


ismaelcelis.com

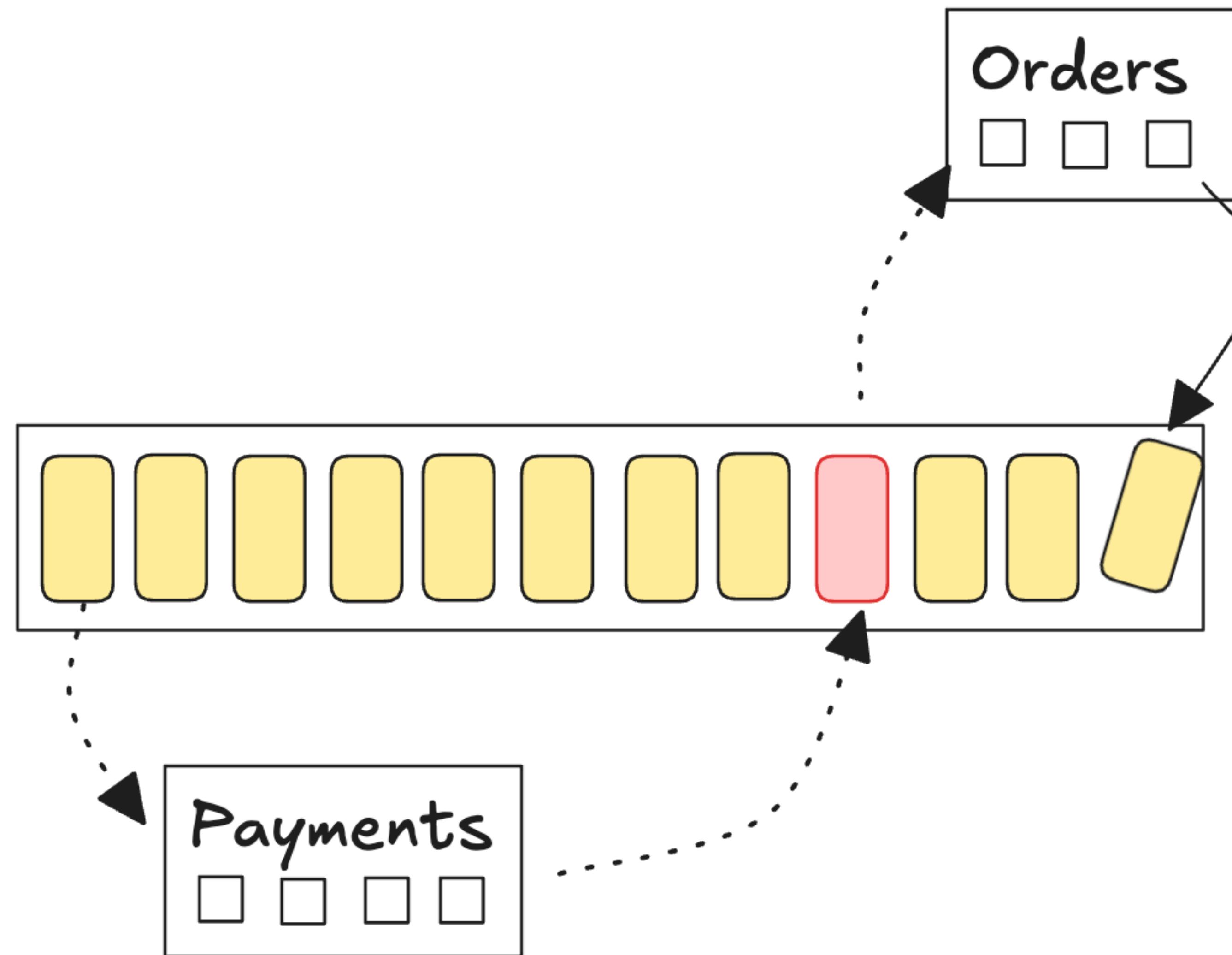
github.com/ismasan/sourced

More





Time



localhost:9292/todo-lists/30754e4a-bce1-4812-bc58-f10b0

Todo lists System logged in as Ismael Logout

Plan my day active

lers, then fine dining at the Savoy at 20:00, later watch a movie Add

<input checked="" type="checkbox"/> Wake up	slack from Salesforce
<input checked="" type="checkbox"/> Have breakfast	slack from Salesforce
<input type="checkbox"/> Put trousers on before leaving the house	slack from Salesforce

History

current version: 26 Show Payloads

- 26 Todos::SlackDispatcher → todos.list.item_dispatched 2025-11-05 17:33:50 +0000 Ismael
- 25 Todos::SlackDispatcher → todos.list.notify_dispatched 2025-11-05 17:33:50 +0000 Ismael
- 24 Todos::SlackDispatcher → todos.list.item_dispatched 2025-11-05 17:33:47 +0000 Ismael
- 23 Todos::SlackDispatcher → todos.list.notify_dispatched 2025-11-05 17:33:47 +0000 Ismael
- 22 UI → todos.list.item_done 2025-11-05 17:33:47 +0000 Ismael
- 21 UI → todos.list.toggle_item 2025-11-05 17:33:47 +0000 Ismael
- 20 UI → todos.list.item_done 2025-11-05 17:33:44 +0000 Ismael
- 19 UI → todos.list.toggle_item 2025-11-05 17:33:44 +0000 Ismael
- 18 UI → todos.list.item undone 2025-11-05 17:33:35 +0000 Ismael
- 17 UI → todos.list.toggle_item 2025-11-05 17:33:35 +0000 Ismael
- 16 UI → todos.list.item_done 2025-11-05 17:33:29 +0000 Ismael
- 15 UI → todos.list.toggle_item 2025-11-05 17:33:29 +0000 Ismael
- 14 UI → todos.list.item undone 2025-11-05 17:33:17 +0000 Ismael
- 13 UI → todos.list.toggle_item 2025-11-05 17:33:17 +0000 Ismael
- 12 Todos::SlackDispatcher → todos.list.item_dispatched 2025-11-05 17:33:14 +0000 Ismael
- 11 Todos::SlackDispatcher → todos.list.notify_dispatched 2025-11-05 17:33:14 +0000 Ismael
- 10 UI → todos.list.item done 2025-11-05 17:33:11 +0000 Ismael

localhost:9292

Todo lists System logged in as Ismael Logout

TODO lists

Active

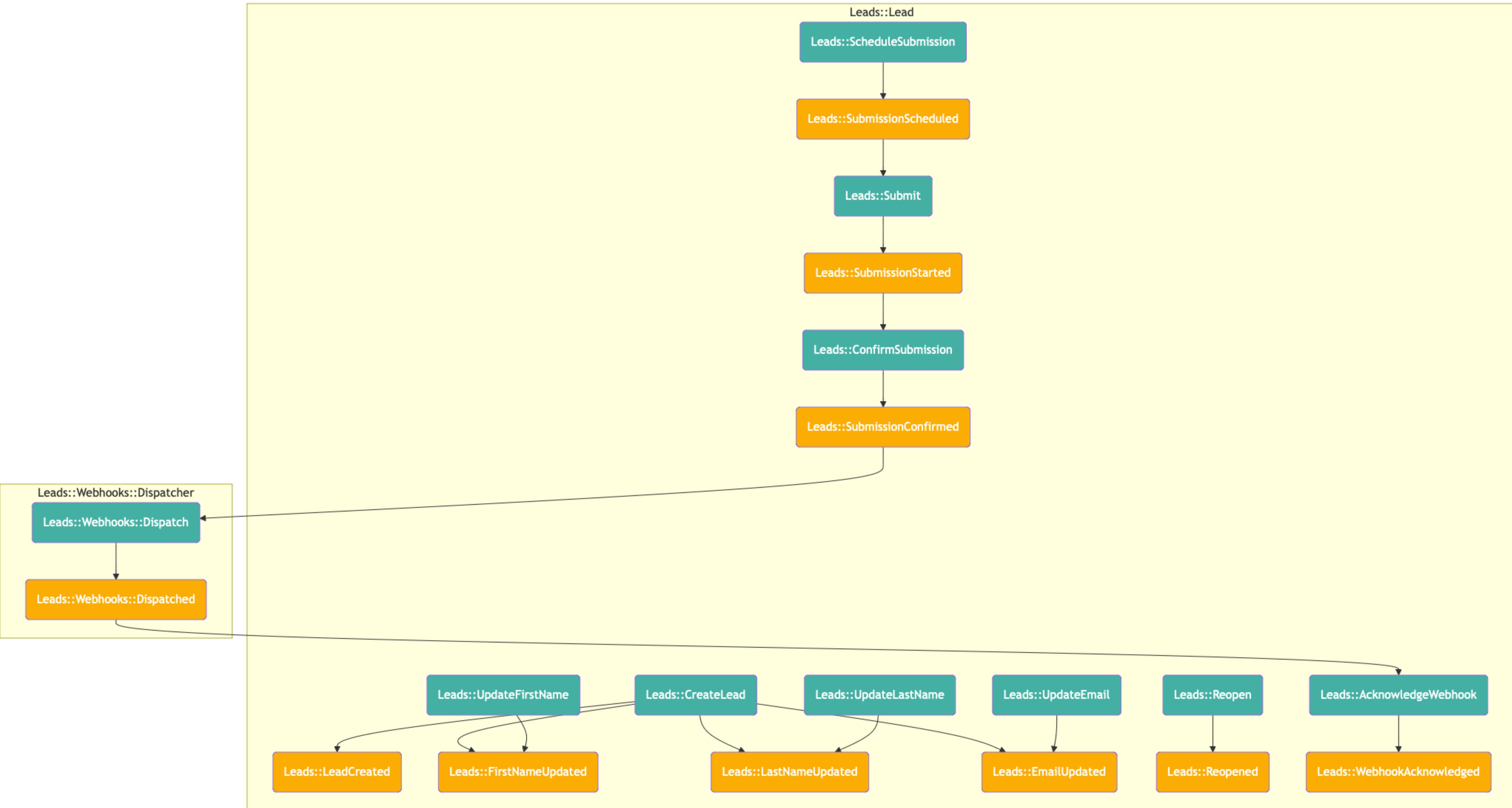
Name	Progress	Members	Updated at	Status
Plan my day	—	ismael	2025-11-05 17:33:50 +0000	active

Archived

Name	Progress	Members	Updated at	Status
New list	—	ismael	2025-11-05 17:14:47 +0000	archived

Create Todo List

Flow





sequence: 12

Show Payloads

```
class BookHolidays < Sourced::DurableWorkflow
  def execute(flight_info, hotel_info, car_info)
    flight_booking = book_flight(flight_info)
    hotel_booking = book_hotel(hotel_info)

    wait 10 # <==

    car_booking = book_car(car_info)
    confirm_booking(flight_booking, ...)

  end
end
```



- 12 book_holidays.workflow.complete 2025-11-12 17:18:46 +0000
- 11 book_holidays.step.complete 2025-11-12 17:18:46 +0000
- 10 book_holidays.step.started 2025-11-12 17:18:45 +0000
- 9 book_holidays.step.complete 2025-11-12 17:18:45 +0000
- 8 book_holidays.step.started 2025-11-12 17:18:44 +0000
- 7 book_holidays.wait.ended 2025-11-12 17:18:43 +0000
- 6 book_holidays.wait.started 2025-11-12 17:18:32 +0000
- 5 book_holidays.step.complete 2025-11-12 17:18:32 +0000
- 4 book_holidays.step.started 2025-11-12 17:18:29 +0000
- 3 book_holidays.step.complete 2025-11-12 17:18:29 +0000
- 2 book_holidays.step.started 2025-11-12 17:18:27 +0000
- 1 book_holidays.workflow.started 2025-11-12 17:18:27 +0000