

# Working with Dev Agents.

Turn chaotic requirements into validated, event-sourced code. **Specify first. Generate second. Review formally.**

## USE THIS WHEN

You are turning a fuzzy feature request into specifications an agent can build without guessing.

## YOU WILL LEAVE ABLE TO

Write a sealable Given / When / Then spec, isolate one handler per command, and review generated code against your consistency boundaries.

ONE WORKED EXAMPLE, CARRIED THROUGH EVERY STEP

Place Order

FOLLOW IT ↓

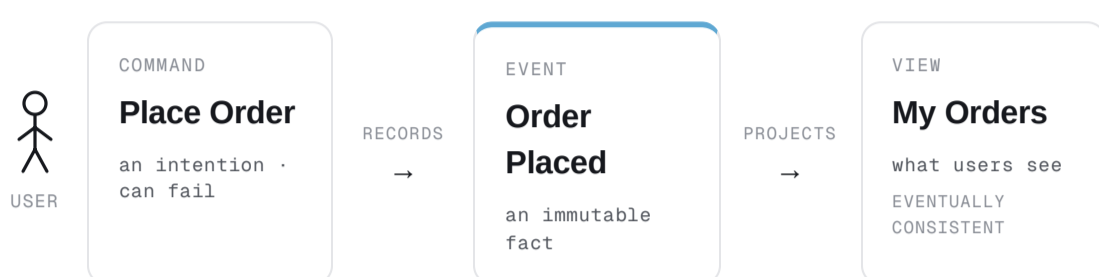
# 01

DISCOVERY

Place Order

## Event Modeling.

**Event Modeling** lays out a visual, jargon-free timeline of what users do, what the system records, and what they see. It reads left to right, like a storybook.



**The three mechanics.** Commands are intentions that succeed or fail. Events are immutable facts you cannot un-happen. Views are projections built from events, so they are eventually consistent, never the source of truth.

# 02

SPECIFICATION

Place Order

## Pressure-Test One Command.

Slice one command vertically and write **Given / When / Then** precise enough to hand to an agent. The same spec doubles as an executable test.

Place Order		↓ VERTICAL SLICE · COMMAND UNDER TEST
<b>GIVEN</b> PRECONDITIONS		Customer is logged in · Cart has items · Stock checked inside the decision's <b>Dynamic Consistency Boundary (DCB)</b>
<b>WHEN</b> TRIGGER		<b>PlaceOrder</b> command is issued
<b>THEN EMITS</b> THIS HANDLER		<b>OrderPlaced · StockReserved</b> // atomic within the DCB spanning Order + Inventory
<b>THEN REACTS</b> DOWNSTREAM		Confirmation email // async reactor, not a synchronous postcondition
<b>THEN REJECTS</b> FAILURE		Out of stock · Payment declined → recorded as <b>OrderRejected</b> // failure is a fact too

**The critical question.** What must be true to succeed, and every way it can fail? Given / When / Then pins behavior. It does not pin concurrency, idempotency, or ordering, which is why a human still reviews in step 4.

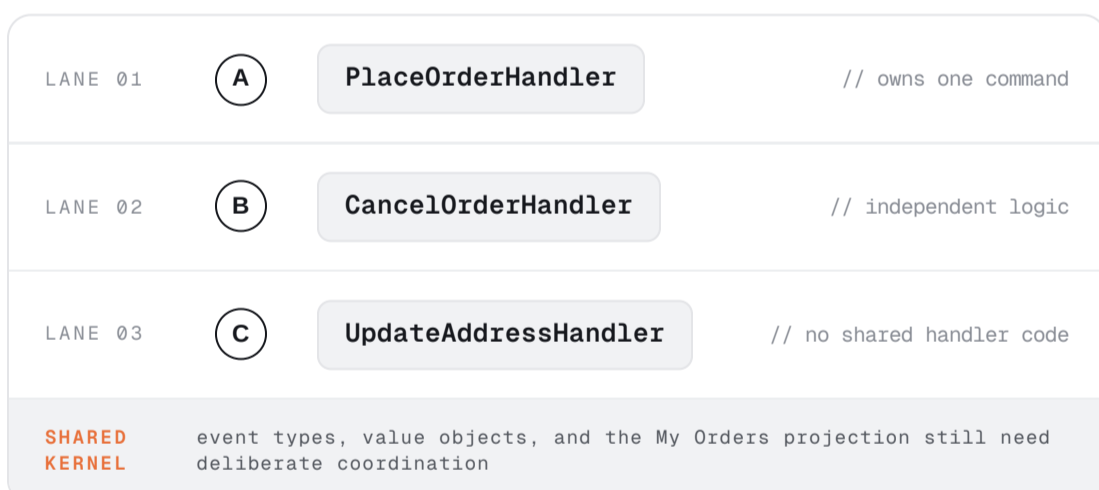
# 03

ARCHITECTURE

Place Order

## One Engineer, One Handler.

Flip Conway's Law into a tool: one independent command handler per command, so team structure maps onto architecture. Slices are built in parallel.



**The benefit.** Conway's Law works for you. Handler logic stays isolated, so the conflict surface shrinks to the shared event and projection layer, where you coordinate on purpose rather than by accident.

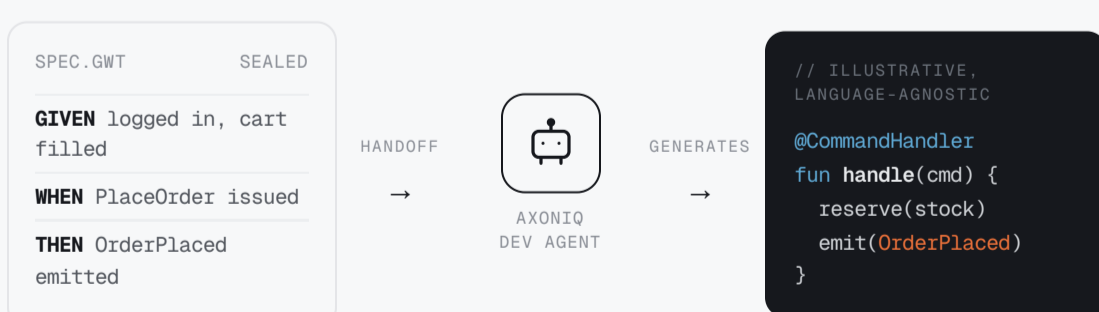
# 04

GENERATION & REVIEW

Place Order

## Hand It to the Agent.

Pass the sealed spec to the **AxonIQ Dev Agent**. It generates the code. You shift from author to reviewer.



**AUTOMATED GATE** The same spec runs as an Axon test fixture: **given** past events, **when** the command, **then** expect events or rejection. It verifies the agent's code before you read it.

YOU REVIEW WHAT THE SPEC CANNOT SAY

- expected-version / concurrency
- command idempotency
- event ordering
- Sliced Architecture holds
- DCB holds

**Your final check.** Each decision is strongly consistent within its boundary; views stay eventually consistent across them. Validate the boundaries hold, and the system is correct by construction.

// THE RESULT

Model deliberately.  
Specify precisely.  
Slice cleanly.  
*Review formally.*