Use Event Notification as EDA for Choreography

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Context

We have a multistep process for onboarding new customers, where steps need to executed one after another and no error handling is required.

Decision

We utilize Event notification as our Event Driven Architecture. In particular for communication between Onboarding Gateway and Customer Approval, as well as, Customer Approval and Customer Persistence.

Consequences

We have dependency inversion through events and thereby decouple the receiver from the sender. This has the additional benefit of making the workflow easily extensible for other services by listening for particular events.

However we have emergent behavior and cant make a statement about the current state of the workflow. We avoid additional traffic since our onboarding workflow is linear and we use stamp coupling.

Since there is no error handling we make sure that operations are idempotent in case customers retry the onboarding since it is their only option if something goes wrong.