WHICH SHALL I KEEP?

STATE OR EVENTS?

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Blogger, Programmer and Trainer @ Bottega

Loves to tackle complex enterprises with: Domain-Driven Design, Test-Driven Development and Spring tools. Being a microservice freak, architecture is his main area of interest too.

When he does not program he rides motorbike, skis or grows his beard.

Also, here is his DZone MVB awarded blog: pillopl.github.io

Co-founder of #dddbyexamples initiative: github.com/ddd-by-examples

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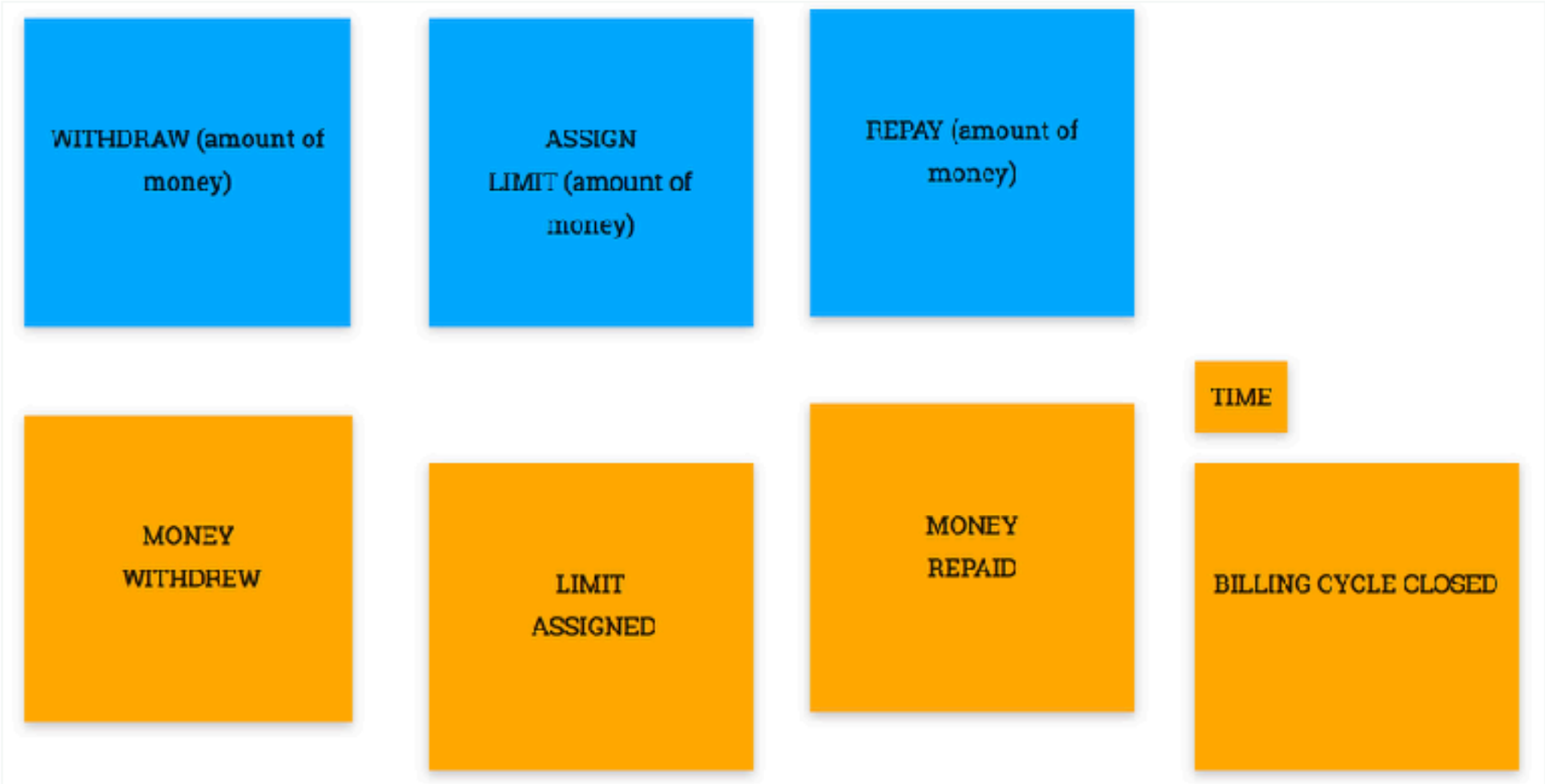
LIVE CODING AGENDA

- OOP MODELING WITH TDD
- EVENT SOURCING
- EVENT-DRIVEN ARCHITECTURE

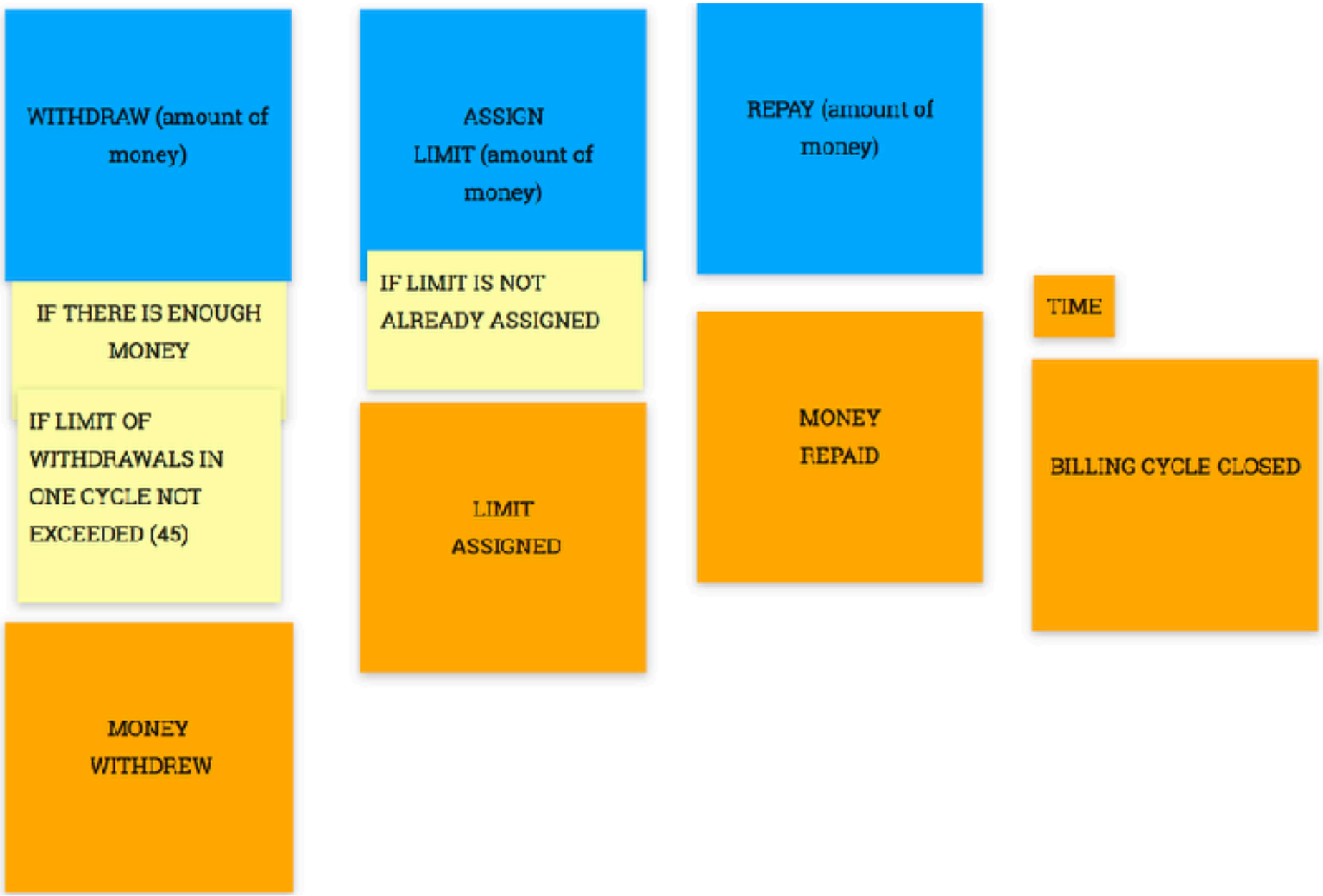
EVENTS

MONEY WITHDREW
LIMIT ASSIGNED
MONEY REPAID
BILLING CYCLE CLOSED

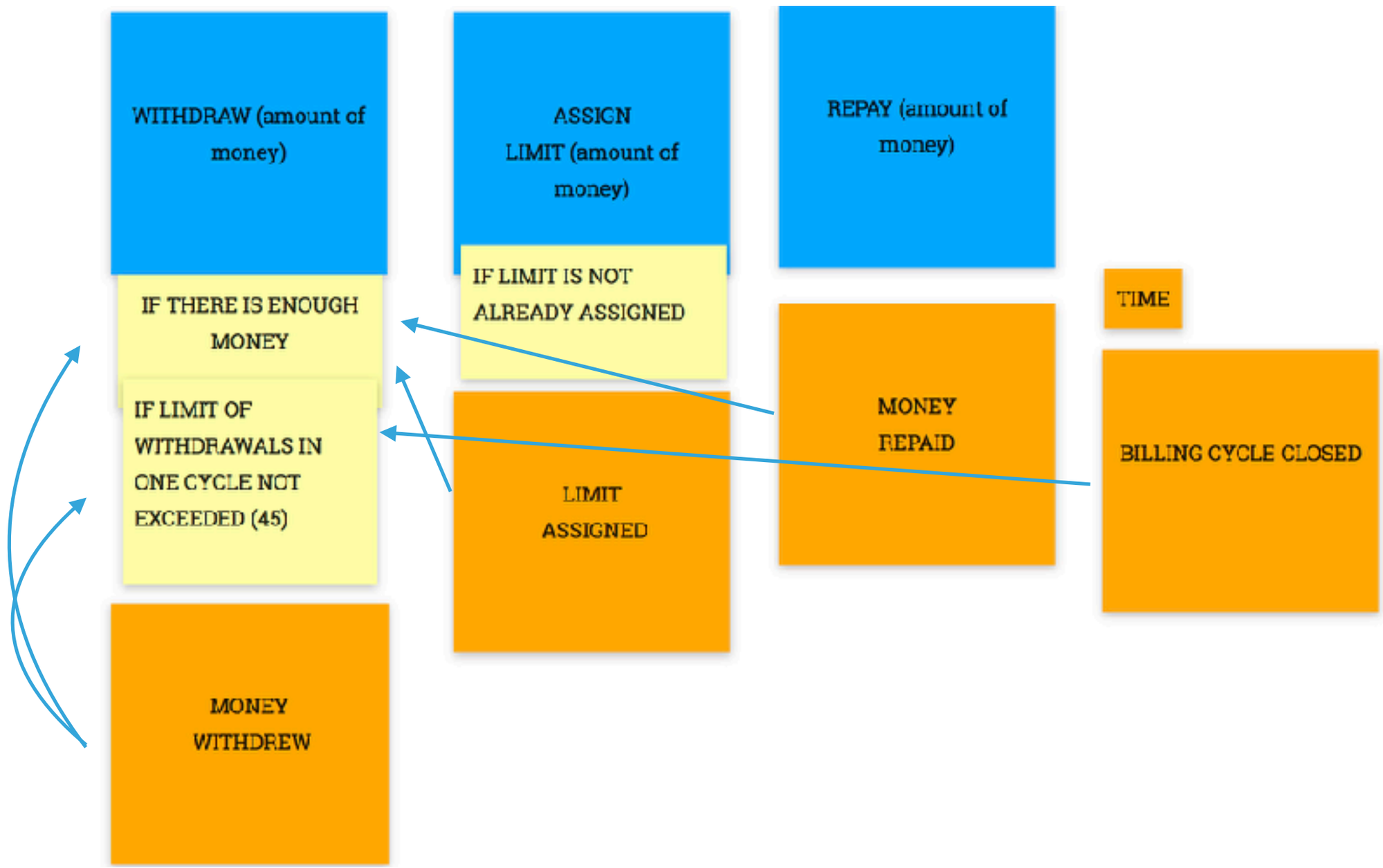
EVENTS AND COMMANDS



INVARIANTS


WITHDRAW (amount of money)
IF THERE IS ENOUGH MONEY
IF LIMIT OF WITHDRAWALS IN ONE CYCLE NOT EXCEEDED (45)
MONEY WITHDREW
ASSIGN LIMIT (amount of money)
IF LIMIT IS NOT ALREADY ASSIGNED
LIMIT ASSIGNED
REPAY (amount of money)
MONEY REPAID
TIME
BILLING CYCLE CLOSED

EFFECT OF EVENTS ON INVARIANTS



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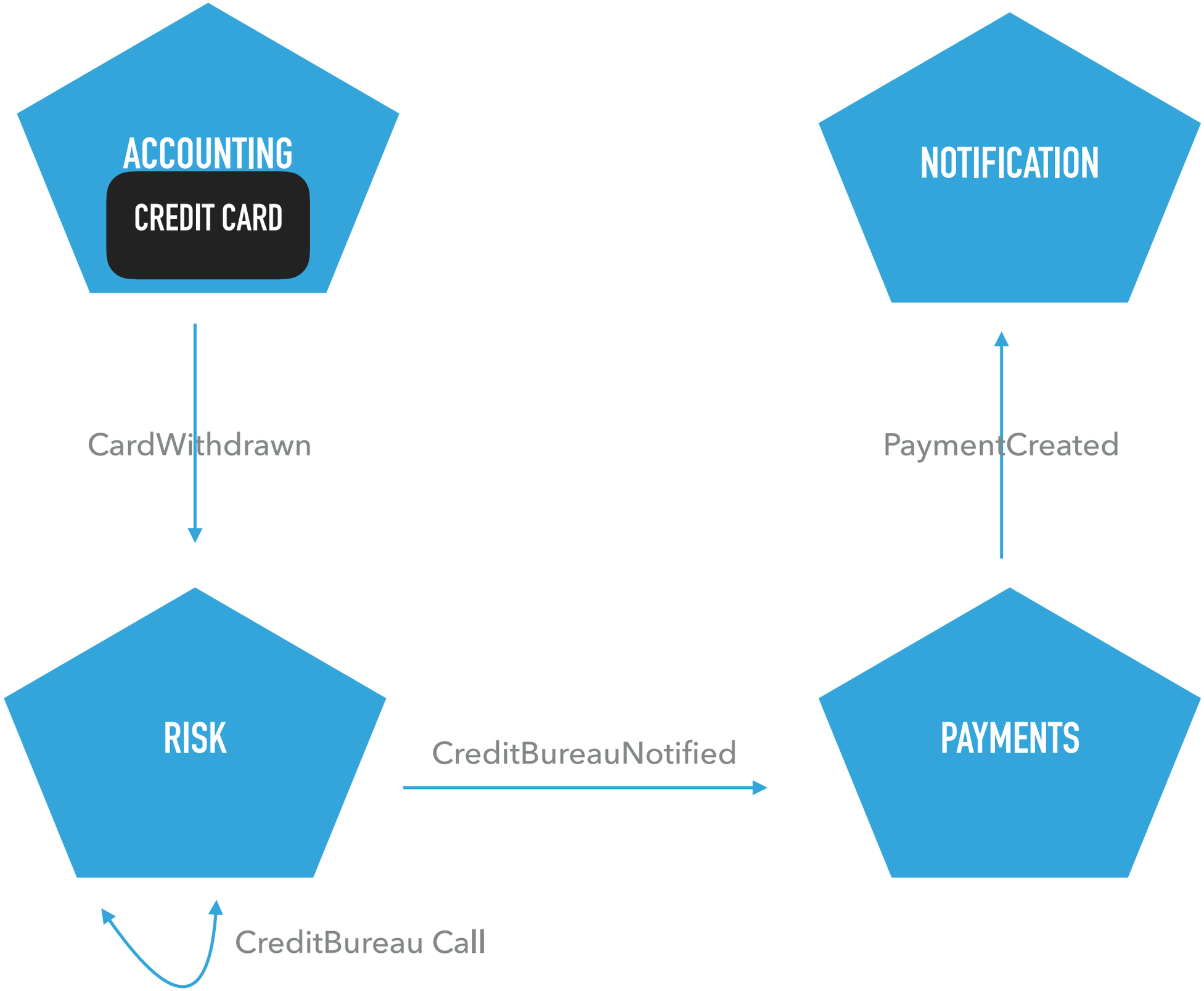
When there is a withdrawal in **accounting**

Risk has to send information to credit bureau

After doing so, outgoing **payment** have to be created

And client has to be **informed** via e-mail



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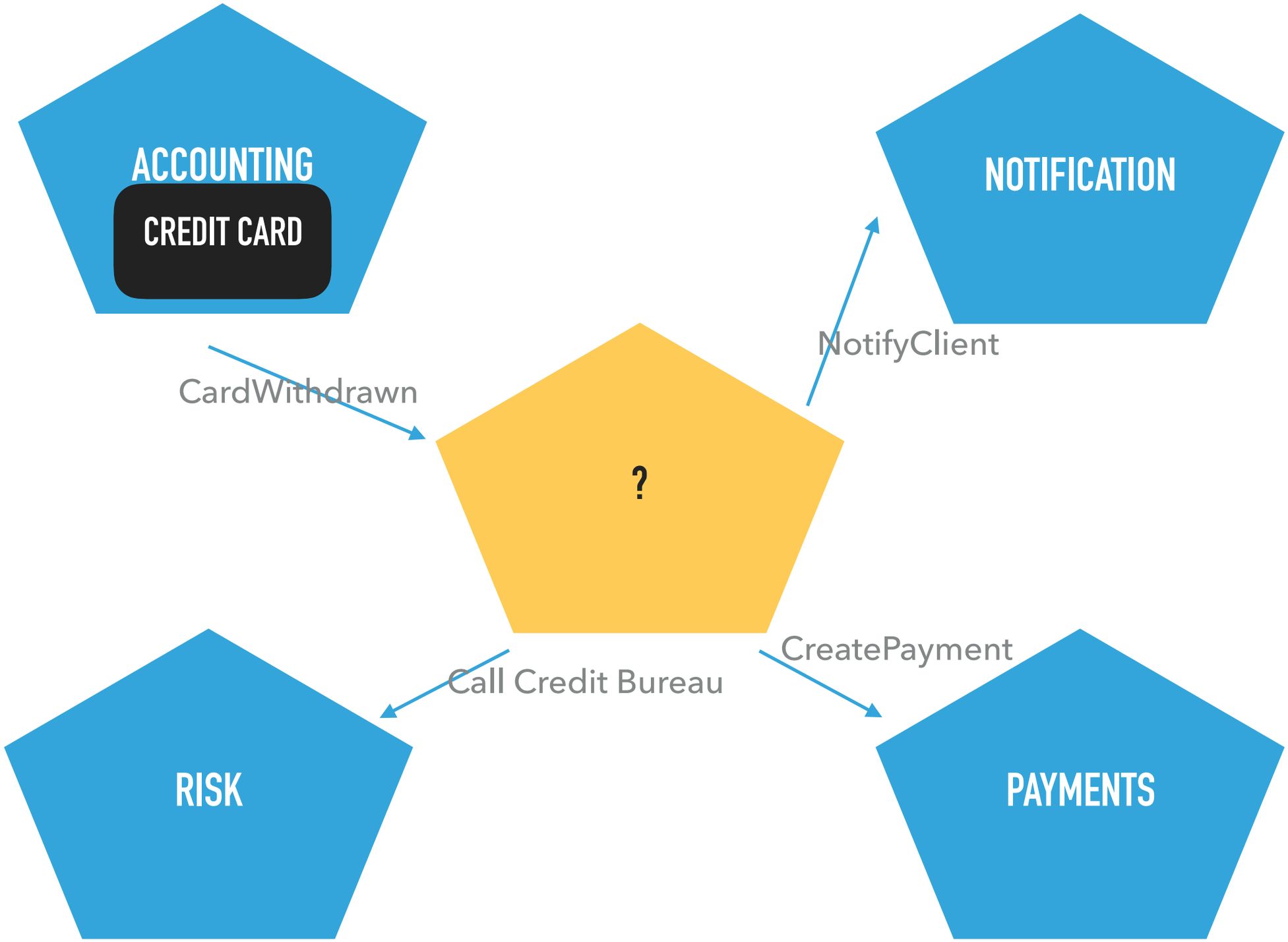

ACCOUNTING
CREDIT CARD
NOTIFICATION
CardWithdrawn
NotifyClient
?
Call Credit Bureau
CreatePayment
RISK
PAYMENTS

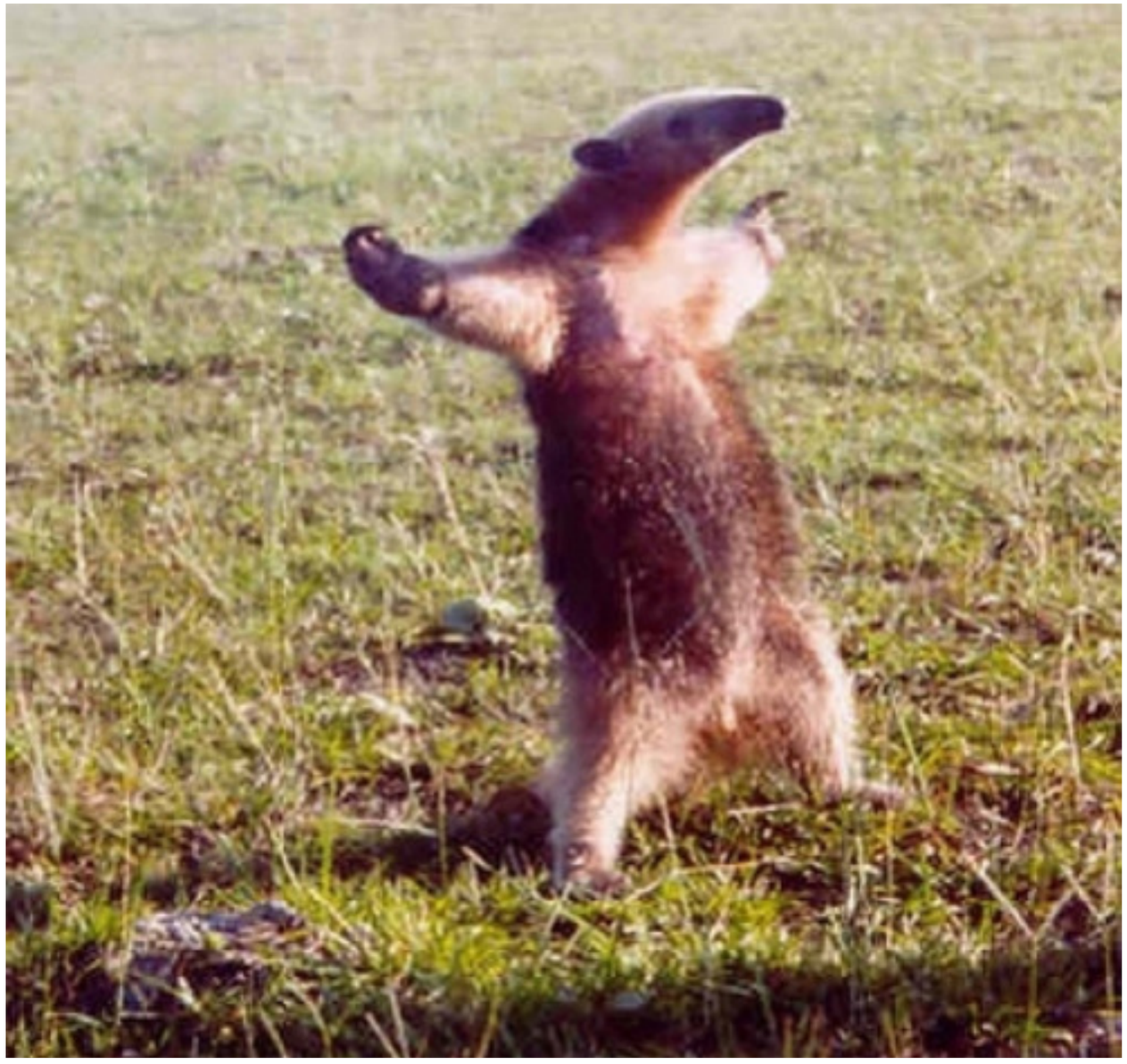
ACCOUNTING
CREDIT CARD
?

QUESTIONS?

https://github.com/ddd-by-examples/event-source-cqrs-sample

https://gitlab.com/pilloPl/eventsourced-credit-cards

https://github.com/pilloPl/s1p-events



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