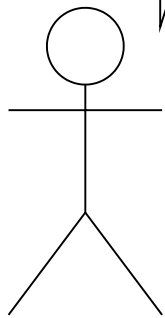


Actors

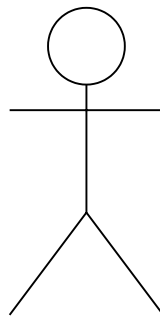
Grace owns me
3535 BAHT



Madee
the Receiver

55 years old lady,
from Thailand,
runs a flowers store,
doesn't have crypto wallet.

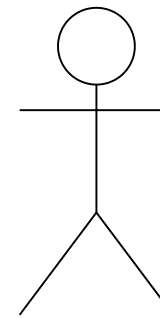
I will send \$100 to my friend
Madee in Thailand



Grace
the Sender

from Canada
prefers BNB Chain
to send funds
through
Cash4Cash

I can deliver it!

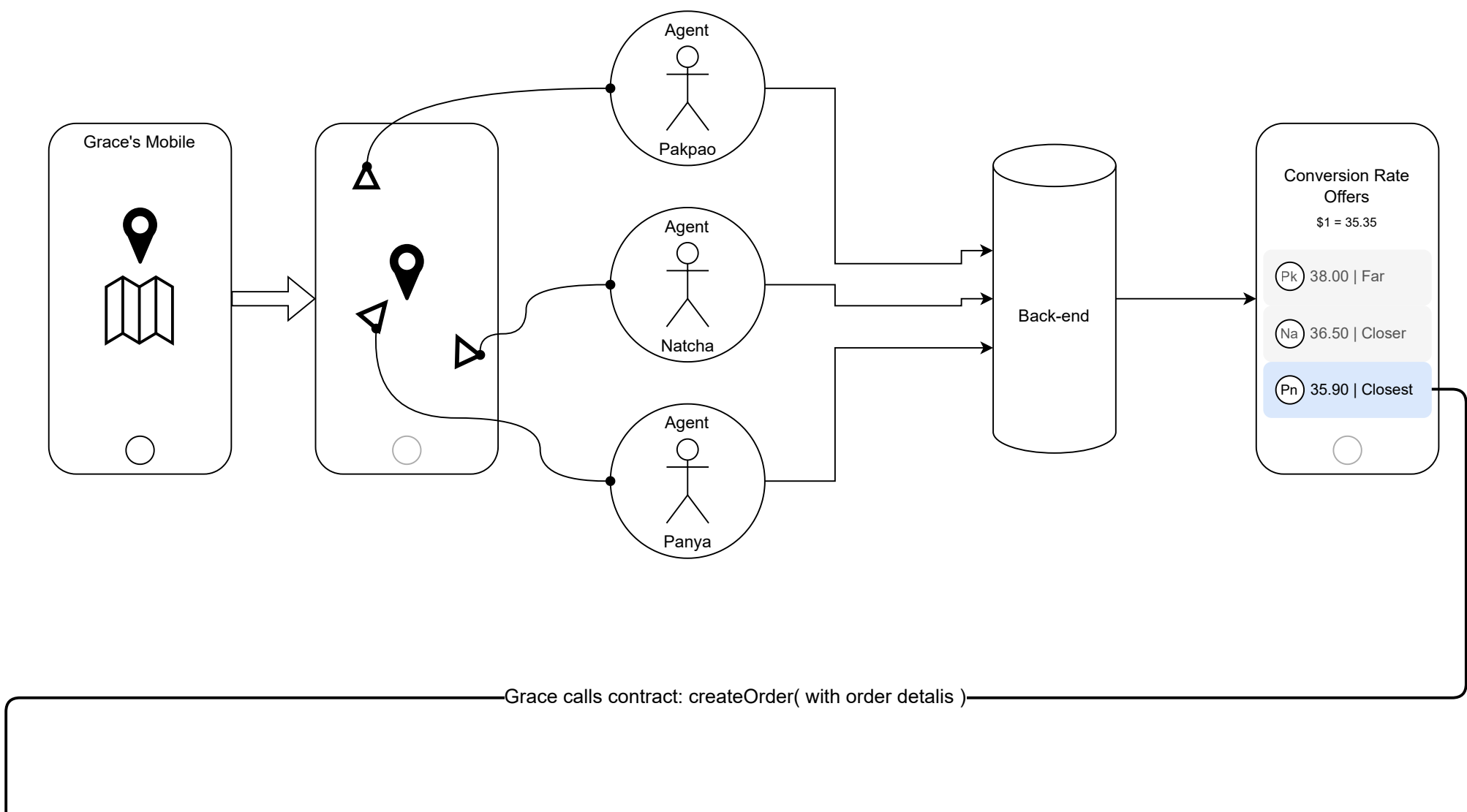


Panya
the Agent

36 years old,
from Thailand,
has bakery,
accepts fund requests in the store,
or supplies the cash as delivery

Offers

- 1. She locates her friend on map inside the Cash4Cash,
- 2. 3 courier agents shows up and gives their conversion-rate-offers
- 3. Grace chooses Panya which is the best offer as location and price aspect.



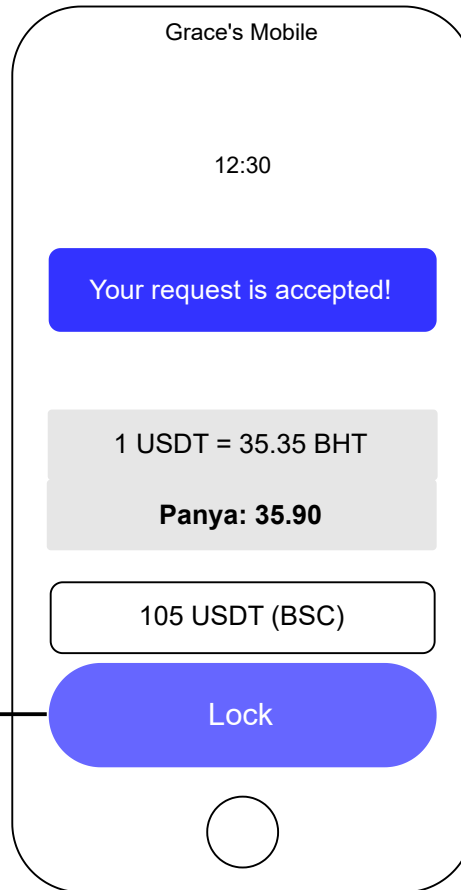
Deposit

1. Grace gets notified as the agent is ready to go
2. Backend delivers the calculated price to Grace's screen
3. Grace deposits the value to the Orders contract
4. that triggers the order as "InProgress"
5. Funds get locked til the job done or the order canceled

BNB is a preference.

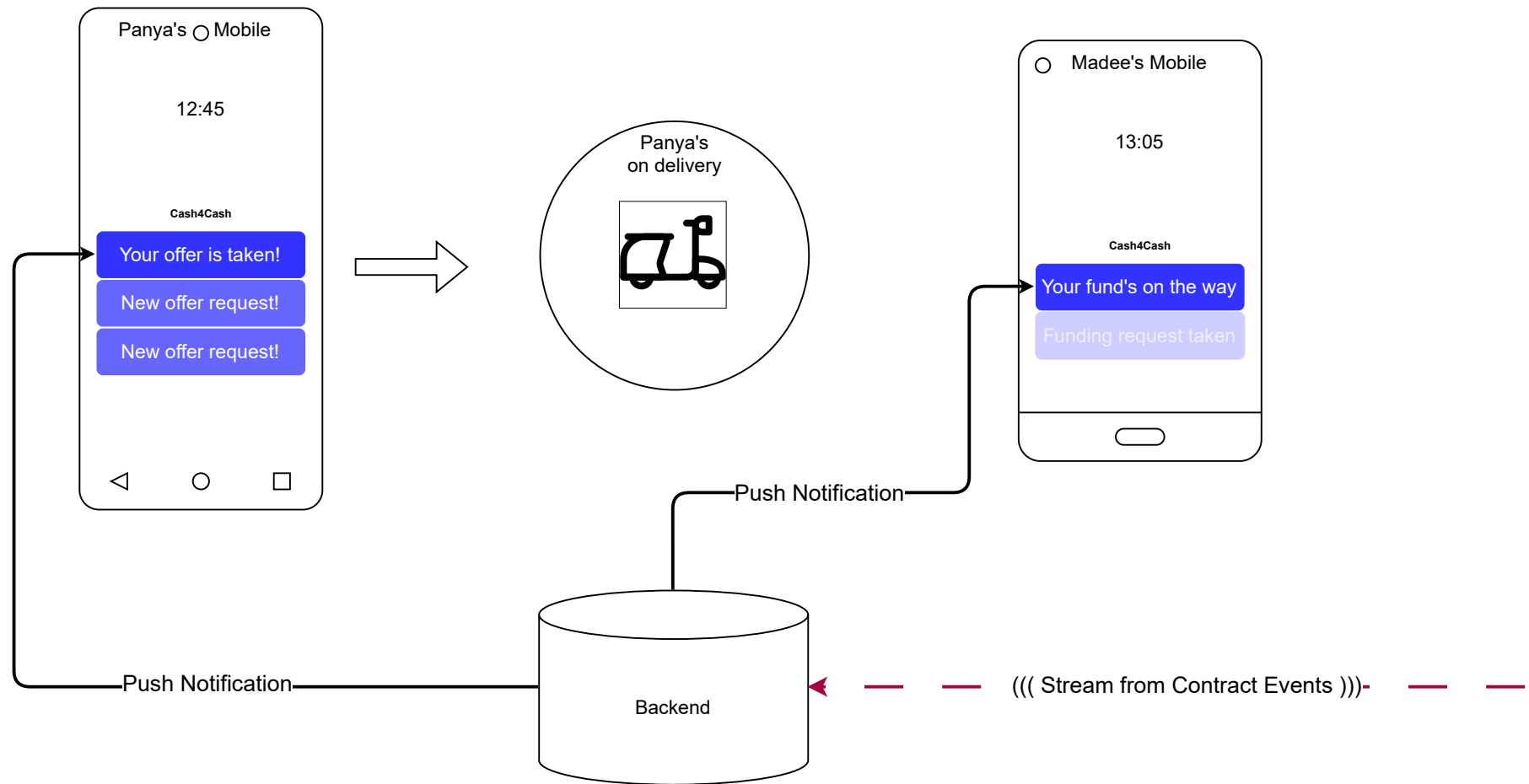
Requestant are free to use any network they would like to send funds from.

Grace calls contract: deposit(100 USDT)



Order InProgress

1. Contract emits an event that the order is in progress
2. Panya gets a notification from the backend app that is ready for the delivery
3. Then she leaves her store
4. Madee gets a notification that says "Your funds are on the way"



contract Order is CCIPReceiver, ReentrancyGuard {}

event orderCreated()

event orderInProgress()

event orderCompleted()

enum OrderStatusCreated,
InProgress,
Completed,
Canceledstruct Orderuint256 orderId;
address sender;
address receiver;
address agent;
uint256 amount;
address fromCurrency;
string toCurrency;
string locationId;
OrderStatus status;

event orderClosed()

event orderCanceled()

(bool sent,) = msg.sender.call{value: orderBook[_orderId].amount}("");

function sendMessage(tokens, message) {}

function _ccipReceive() {}

different
network ?

Grace calls: createOrder() → function createOrder() payable onlySender {}

Grace calls: deposit() → function deposit() payable nonReentrant onlySender {}

function completeOrder() onlyReceiver {}

function withdraw() nonReentrant {}

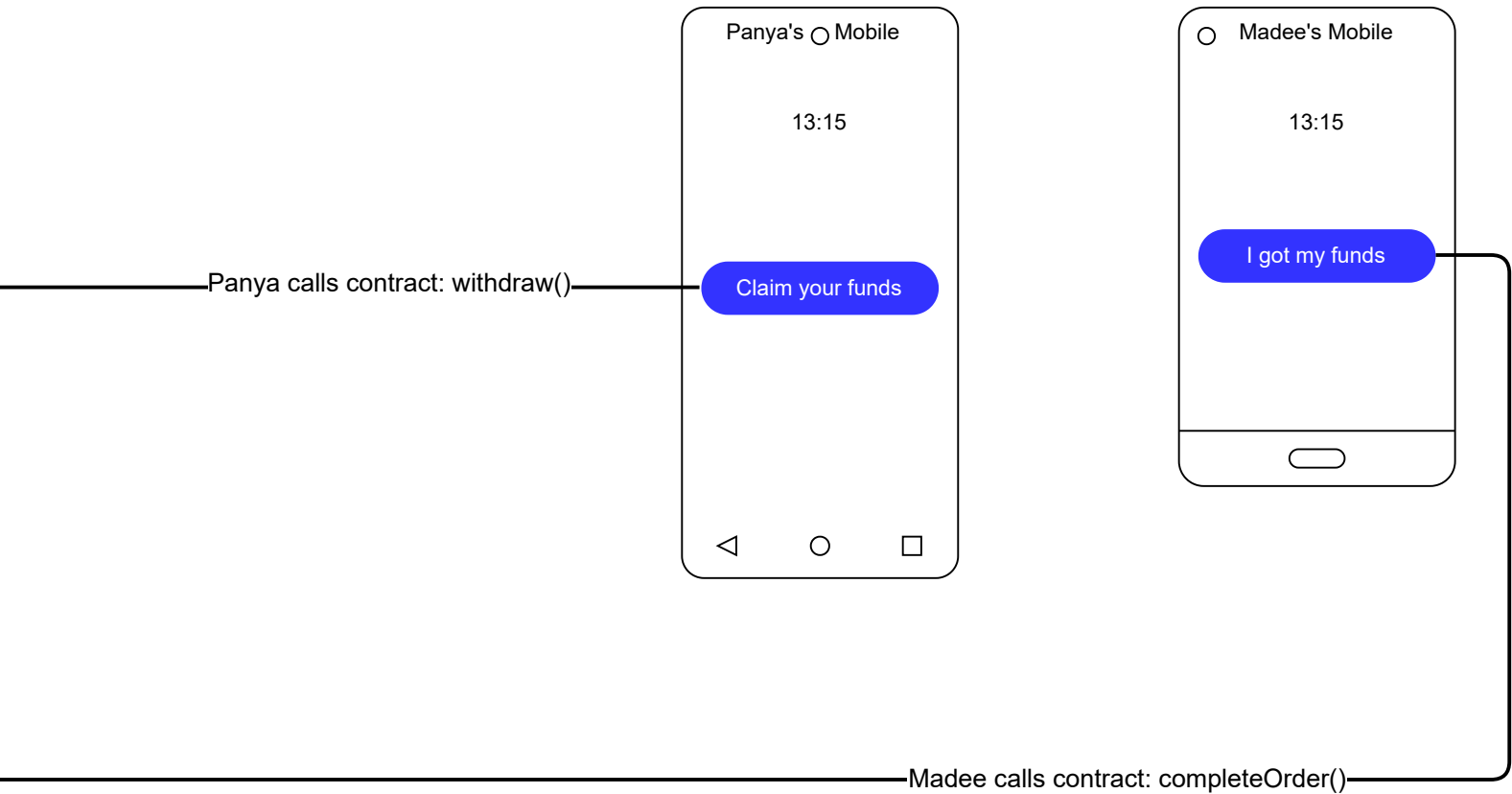
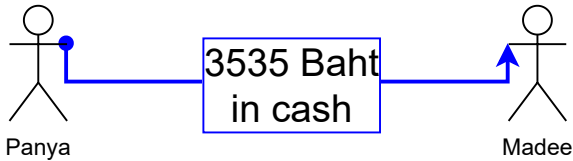
internal call

Panya calls: withdraw()

Madee calls: completeOrder()

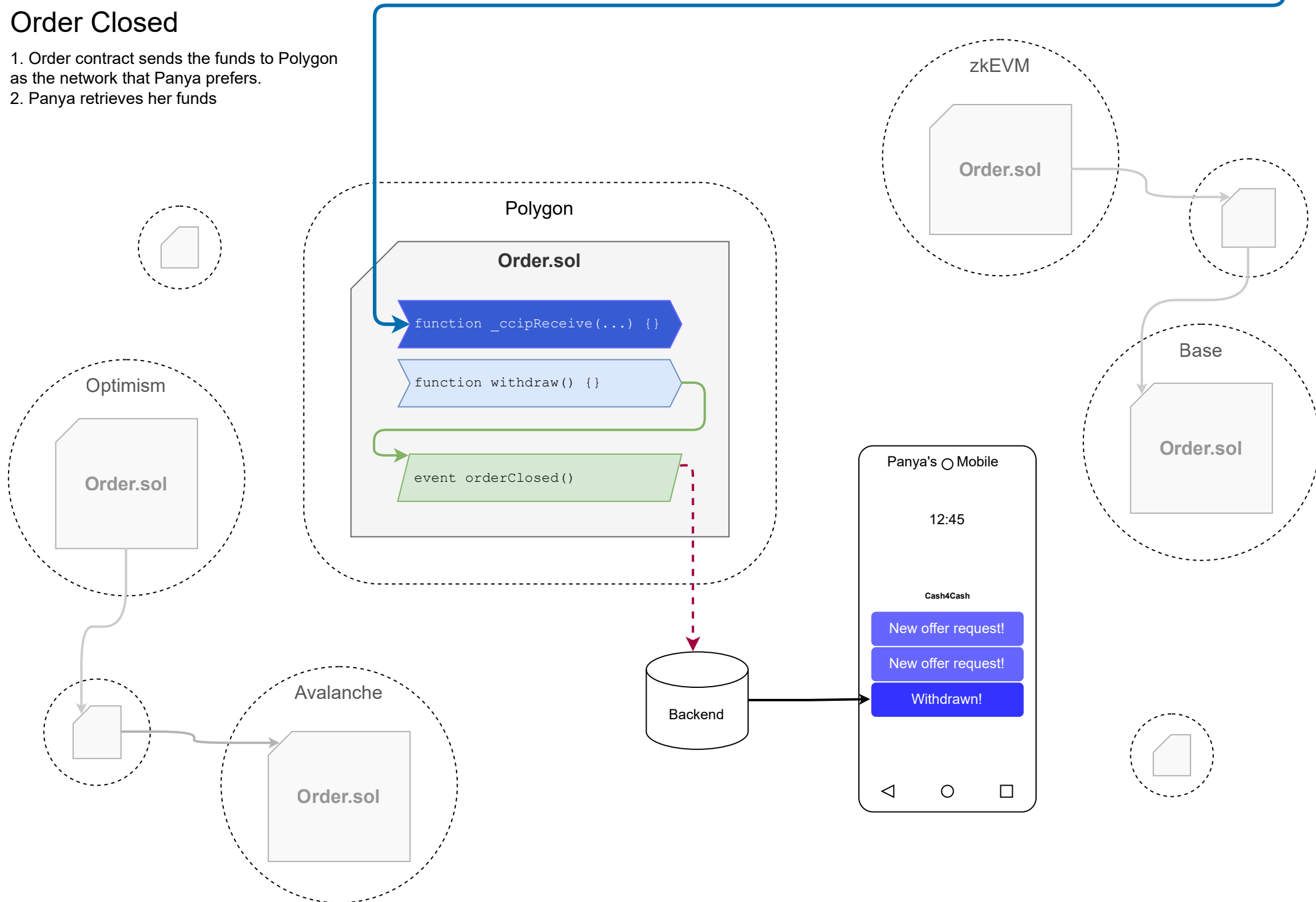
Order Completed

- 1. Panya hands over the cash to the receiver
- 2. Madee approves that she got her funds
- 3. Panya does request her funds from the contract



Order Closed

1. Order contract sends the funds to Polygon as the network that Panya prefers.
2. Panya retrieves her funds



Final

1. Grace gets notification that Madee got her funds and Panya withdrawn her funds seamlessly.
2. She gets asked to rate the agent.
3. Madee also gets asked to rate the agent. Multiple rating mechanism, even on-chain! (Enhancement feature)

