



SMART CONTRACT QUESTIONS FOR DEV

Can the example described below be executed with a Smart Contract?

GOAL:

When a User sends 2 micro token transactions (from the same token address) to a Smart Contract Address, the goal is to:

1. Gather the User's address and address balance when each micro transaction is received
2. Obtain from the Explorer other relevant data about the User's transaction
3. Count how many blocks separated those two micro transactions to the same smart contract address
4. Verify if the User's address was active or not (send or receive tx)
 - a. The expectation is the User's address was HODLing (no activity) between the two micro send transactions to the smart contract
5. If they didn't HODL (had activity) or sent the wrong number of Tokens to the Smart Contract Address, then exception reports are made, and this data is posted on a website

Example:

[Redacted content]

More Details:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

DATA COLLECTION:

At regular intervals, run an API to obtain information/data related to the User's that interact with the smart contract address from the Blockchain's Explorer. The info that is obtained is stored in the Blockchain/DB and is used to determine if the User's address quantities meet a specific condition.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

See example below... (SEE MORE IF WE CHOOSE TO CONSULT WITH YOU)

SMART-BCH OPTION:

SmartBCH could be the environment chosen using Solidity (ETH) styled smart contracts

SmartBCH is a sidechain for Bitcoin Cash and has an aim to explore new ideas and unlock novel possibilities. A sidechain is a blockchain designed for fast and inexpensive transactions with a special relationship with the main chain because of a two-way peg; in this case between Bitcoin Cash and SmartBCH. It is an EVM.

It uses Solidity and ETH smart contracts can be plugged in, i.e., ERC-20 Tokens into this sidechain.

BENEFITS: Extremely low gas fees & higher throughput see:

<https://www.bitcoinlinux.com/2021/04/29/the-benefits-of-coupling-ethereum-with-bitcoin-cash-smartbch-sidechain-testnet-is-now-public/>

See: <https://docs.smartbch.org/smartbch/> And <https://docs.smartbch.org/smartbch/faq>