



Nimble Rewards

Phong and Edgar

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What is it? And why we made it

We have probably already been too long on **The 1** so all we can think about are rewards programs right now!

What we have made

- Currency token for payments and trading
- Smart contract based rewards platform
- Mobile app with wallet functionality
- Marketplace where you can spend NimbleGold for benefits (almost)

ERC-20 vs ERC-721 standards

ERC-20



- Identical (Equally valued)
- Can be divided into smaller units (fungible)
- Used for **Crypto-Currencies**.
For eg: Bitcoin, Ethereum, Tether...
- The **amount** matters.

ERC-20 vs ERC-721 standards

ERC-721



- **Not-Identical (Unique)**
- Cannot be divided into smaller units (non-fungible)



- Used for **digital goods**
For ex: Crypto-Kitty, Crypto-Card
- The **token** itself matters (Due to **scarcity**)

100% owned by you; it cannot be replicated, taken away, or destroyed.



No hard limit on maximum amount available.

Probably won't ever be publicly traded or have a monetary value outside the company.

Only senior management, Phong and myself will be able to mint new tokens.

On Monday, there will be a smart contract that you will be able to interact for 24h and get a few free NBG tokens as a reward for learning to interact with smart contracts.

Nimble Rewards

This is a token contract that complies with the ERC-721 protocol with a few additions like Ownable and Mintable for ownership management.

Currently it only allows creating new rewards with name, description, image and price that get put on the marketplace.

This is obviously only the first version and I will continue adding functionalities. We also welcome ideas from the audience.

NimbleReward at 0xf1c...3e8e4 (bl)

addMinter

address account

approve

address to, uint256 tokenId

createReward

_title:

"First"

_description:

"some reward"

_imageUrl:

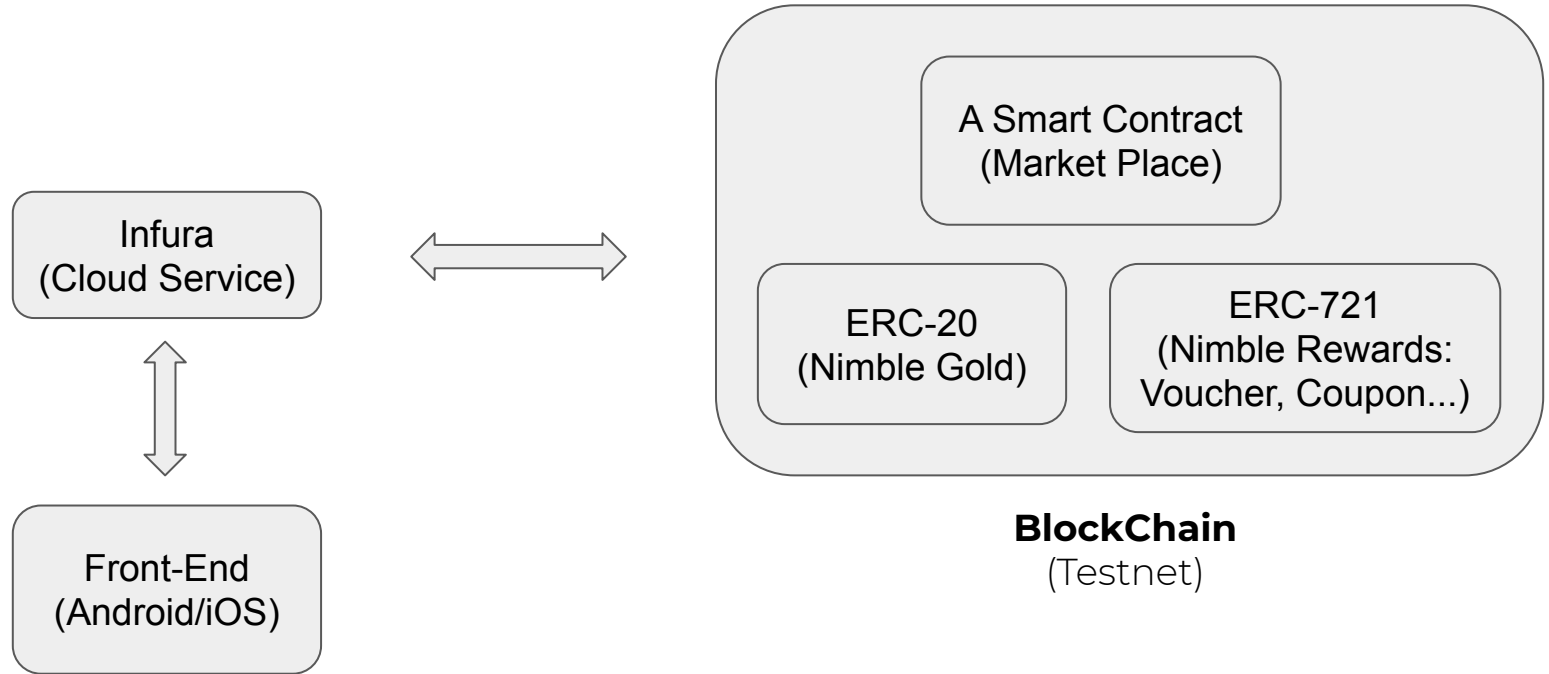
string

_price:

"100"

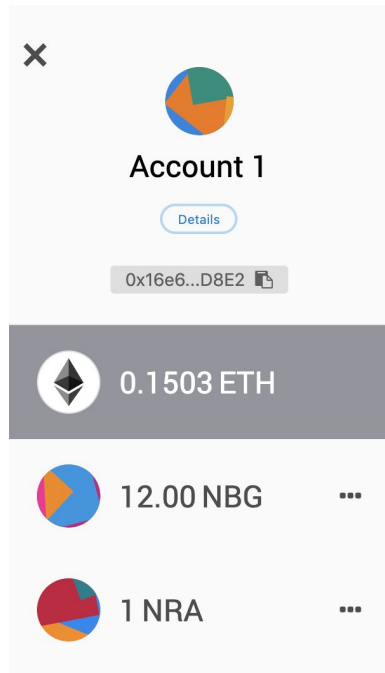
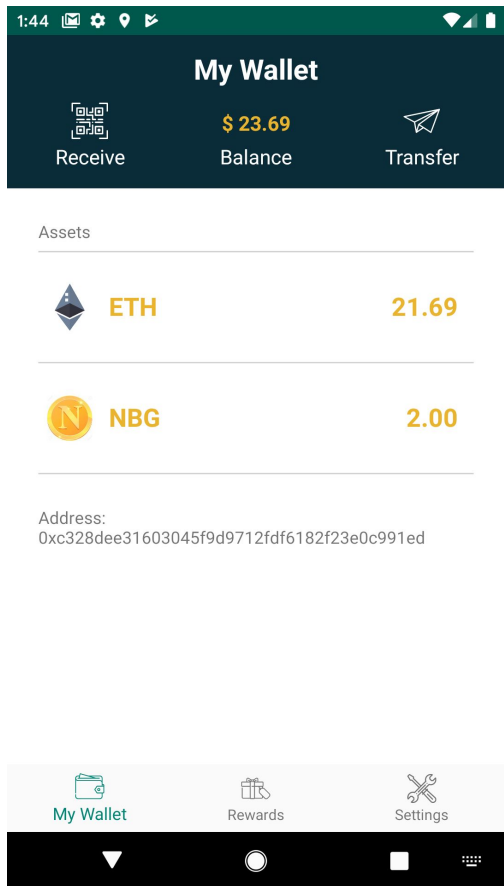
transact

Nimble Rewards



[Nimble Gold](#)
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Demo



Future improvements

- Finalize ios app.
- Finalize android app.
- Have mobile/web interface for creating new rewards.
- Implement ability to auction off amazing offers to colleagues.
- Optimize gas costs for transactions.
- Get approval from management for better and better rewards.

- Slack:
 - **#dapp-ethereum**
- Trello courses:
 - <https://trello.com/c/2fvzn1VQ/93-blockchain>
- Solidity code
 - <https://gist.github.com/edgarss/c15e9a070ab60f4059b8eaefa5e0c980>
- For Android Chapter:
 - <https://github.com/nimblehq/nimble-rewards-android>

Thanks!

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