The Monitor

The Monitor

THE TEAM

- **Sijuade Ajagunna:** Front-end & Design
- **Pascal Belouin:** Requirements, Architecture & Contract

The Monitor

Validator
(Secures the Network)

Stakes some ETH

Nominator
(*The Monitor* User)

The Monitor

Validator
(Secures the Network)

Receives staking rewards regularly

Nominator
(*The Monitor* User)

The Monitor

Nominator
(*The Monitor* User)

Deposits ETH and sets order

The Monitor

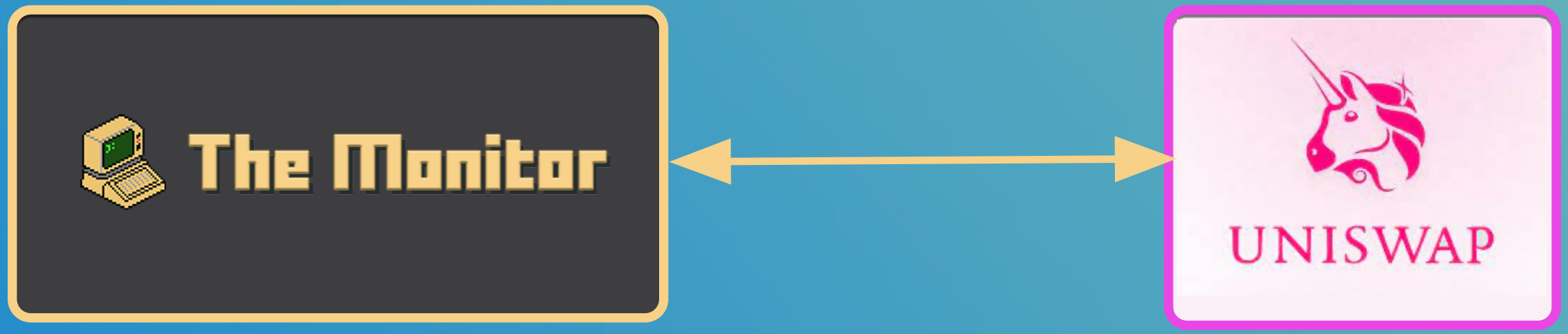
The Monitor

Nominator
(*The Monitor* User)

Monitors the nominator's address
to check if staking rewards have been received

The Monitor

The Monitor



If the swap order conditions are fulfilled,
The monitor swaps a “mirror” portion of the staking reward
from the user’s deposited ETH for DAI

The Monitor

WHY?

- In some countries, staking rewards are taxed as income as soon as they are received. Swapping a portion for stable coins ensures that the taxman will get paid

- Users might want to automatically swap their staking rewards to a stable coin (or another token) to mitigate market volatility

The Monitor

TECHNOLOGY

The Monitor

Chainlink

UNISWAP

THE CONTRACT

- Makes use of **Chainlink's Keepers** to monitor when staking rewards drop on the users' addresses
- Makes use of **Chainlink's** ETH/USD **price feeds** to check if swap orders are fulfilled
- Uses Uniswap V2 SwapExactETHForTokens function to perform the swap
- Uses **ABDK64x64** Math library for some calculations

The Monitor

THE FRONT END

- Based on Next.js
- Uses ethers.js , W3 UI Kit and moralis hooks
- Makes use of Covalent to fetch and display each user's swap history
- Deployed on IPFS using fleek

The Monitor

NEXT STEPS

- ❑ Deploy on Moonbeam when Chainlink is deployed on the network
- ❑ Replace Balance monitoring with real staking reward event monitoring using Subquery
- ❑ Add more options for the swap orders, such as additional pairs and an “accumulation” function