**DAO for ETH staking**

ETH holders want to earn some interests on ETHs. There is a limitation of a minimum 32 ETH for a validator node and we want to lower this limitation by creating a set of smart contracts

Suppose there are 32 people and everyone has 1 ETH. They have to deposit the money to some address.

# PoC

***Part 1 – 15th October***

1. Depositing money to the smart contract. When 32 ETH is reached, suppose that someone sends some ETHs we send their money back. If the balance is less then 32 ETH, the client has the opportunity to get the money back.
2. Withdraw money when 51% of consensus is reached.
3. PoC UI

***Part 2 – before the 21st October***

1. Review and testing of the smart contracts
2. ENS integration
3. When the balance of 32 ETH is reached, we send a message to the server to automatically start the server.
4. Complete UI
5. Small demo with the UI and deposits
6. Reward token?

**Next steps**

1. When setting up the server for the PoS we will get a validator and a withdrawal key.

Validator key. We have the ownership of the key. The custody of the withdrawal key – check trust setup - should be split among the 32 validators. We should create a governance contract where each of the ETH holder has a voting power – similarly to what Compound did https://compound.finance/docs/governance. When 51% of the consensus is reached, all funds will go back to the owners after one week approximately.

1. Mechanics of the reward token

# UI requirements

In UI, we need a very simple UI . it should contain the following fields .

1. List/Dropdown to display the transactions ids for the user deposits.
2. A button to trigger the events after selecting the transaction id from the UI. (Conform for the transaction of the withdrawal – for all the other users including the admin)
3. List/Dropdown which will show the addresses of the users registered [to be displayed only to the contract owner].
4. A page which contains the button, which user can click to register himself. User registration UI.
5. A textbox which can allow user to enter the token value to be deposited and button to trigger the event. (Deposit)
6. A textbox which can allow user to enter the amount he wants to withdraw and button to trigger the event.
7. Display the balance of the user and the balance of the pool with the interest rate of the pool.

# DOCUMENTATION

Documentation about the mechanics of PoS - will translate the description it in English

* A video that shows the transition PoW to PoS: phase 0, phase 1 and phase 2:

[Ethereum 2.0 is coming – Here’s what you NEED to know](https://www.youtube.com/watch?v=Z5gKKFszeAA)

* **How to launch an Ethereum validator node**

<https://docs.prylabs.network/docs/getting-started/>

           [Reference: <https://medium.com/prysmatic-labs/ethereum-2-0-phase-0-testnet-release-1e9e682db910>]

--------------------------------------------

Greater dive into PoS if necessary

* PoS FAQ:

<https://github.com/ethereum/wiki/wiki/Proof-of-Stake-FAQ>

* PoS en general

<https://docs.ethhub.io/ethereum-roadmap/ethereum-2.0/eth-2.0-economics/>