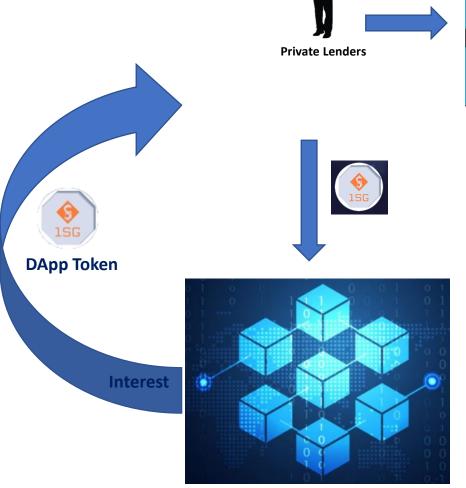
Options

- Convert the Pet Shop (Lab 5) into an e-commerce website (to accept ETH / token into transactions)
- Totally different implementations, with DAPP (web-based) and smart contract involving sending transactions and reading the state of the contracts

How might we boost financial inclusion for low to medium income families through comprehensive solutions (e.g., micro-finance, micro-payments, micro-pension, micro-insurance, micro-savings and micro-investment) that enable them to be have better access to financial services?



https://1.sg/











Demo + Disclosure

Private Lenders



1SG DApp Token











DApp Token Farm





DAppToken.sol & 1SGToken.sol

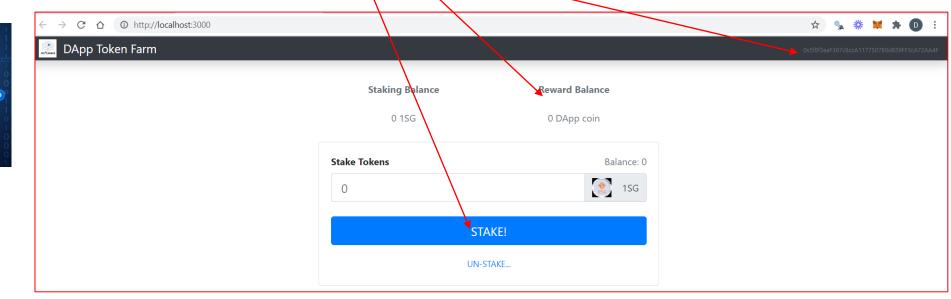
- event Transfer(address indexed _from, address indexed _to, uint256 _value
- event Approval(address indexed _owner, address indexed _spender, uint256 _value);
- function transfer(address _to, uint256 _value) public returns (bool success)
- function approve(address _spender, uint256 _value) public returns (bool success)
- function transferFrom(address _from, address _to, uint256 _value) public returns (bool success)

TokenFarm.sol

- function stakeTokens(uint _amount) public
- function unstakeTokens() public
- function issueTokens() public

React JS

- Main.js
- Navbar.js
- App.js



References ...

1. Main

- https://docs.soliditylang.org/en/v0.7.5/contracts.html
- https://web3js.readthedocs.io/en/v1.3.0/
- https://eips.ethereum.org/EIPS/eip-20
- https://reactjs.org/

2. Others

- https://medium.com/metamask/https-medium-com-metamask-breaking-change-injecting-web3-7722797916a8
- GitHub
- StackOverflow

3. Videos & Website ...

- DappUniversity/Bootcamp (React js, Smart Contract)
- Eat The Block (Openzeppelin, Truffle, Ganache, Web3, Smart Contract)
- Will It Scale (Solidity for Beginner)
- Shlomi Zeltsinger (Truffle)
- Filip Martinsson (Truffle & Web3)
- Tutorialslum (DApp for Beginner)
- Giveth (DApp Step by Step)

Demo steps ...

Compile:

- In VSCode, run Terminal
 - Truffle compile

Deploy:

- In Windows, run ganache
- In VSCode, run Terminal
 - Truffle migrate --reset
 - nmp run start
- Goto Metamask login and select account
- Goto website and stake
- In VSCode, run another Terminal
 - Truffle exec scripts/issue-token.js
- Goto website to confirm payout & unstake

Test:

Truffle test

Metamask setup



