

Blockchain-based Asset Management Application

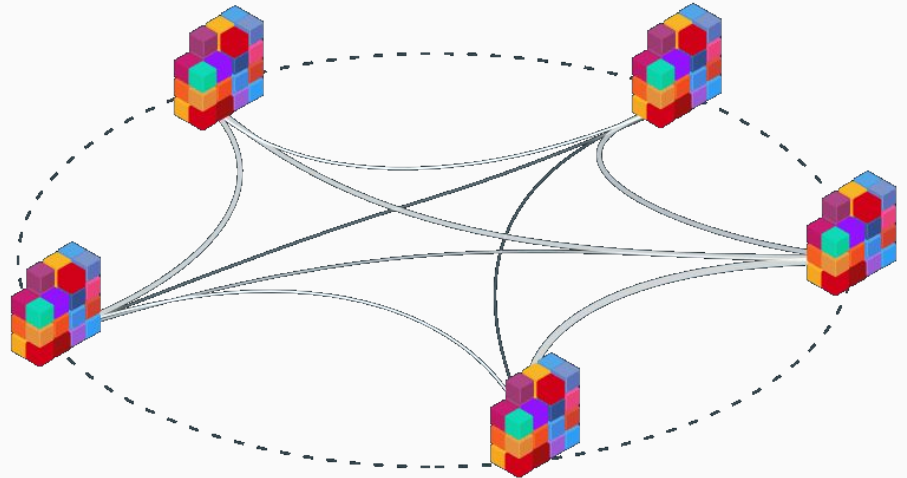
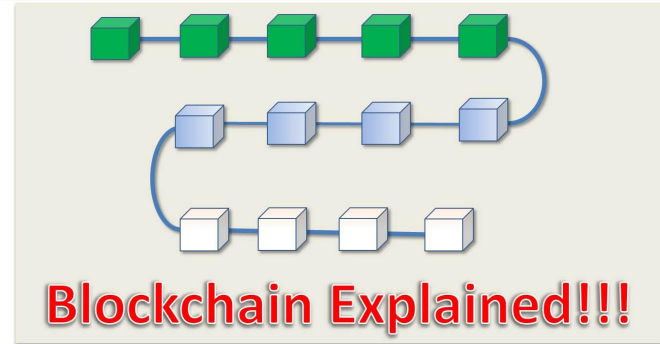
An - Rossukhon

Growth Session #16 - July 12-13 2018

- Build an Asset Management application using Ethereum Smart contract (DAPP)
- Everyone can add asset
- Everyone can see the list of asset
- Everyone can see who is the owner, who is holding that asset

Blockchain

- A [blockchain](#), is a growing list of records, called blocks, which are linked using cryptography. Each block contains a cryptographic hash of the previous block, a timestamp, and transaction data.
- Decentralized platform.



- Is an open source.
- Based on blockchain technology where all transactions are meant to be irreversible and unchangeable.
- Is a decentralized platform that allows to run Smart Contracts.

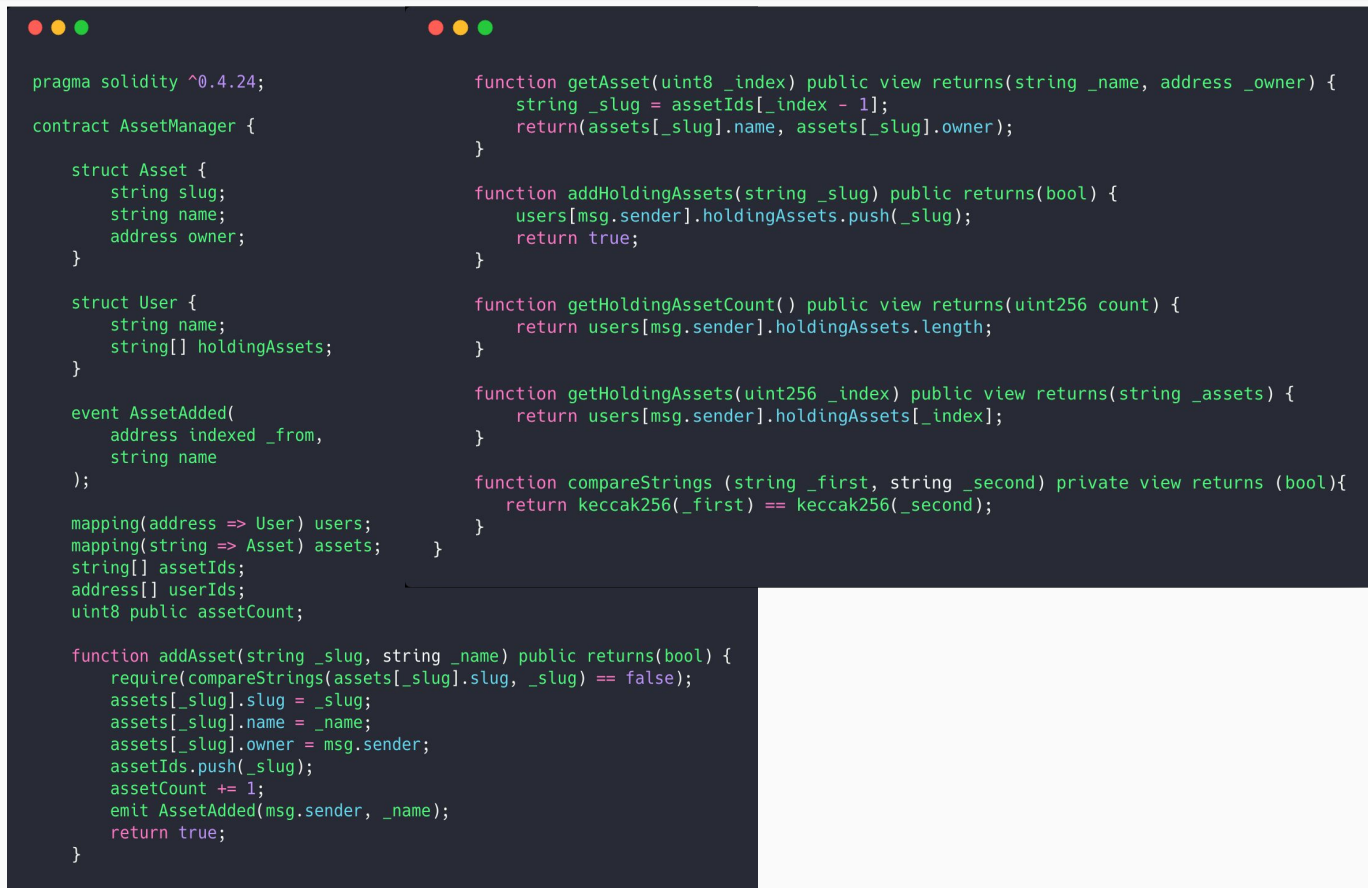
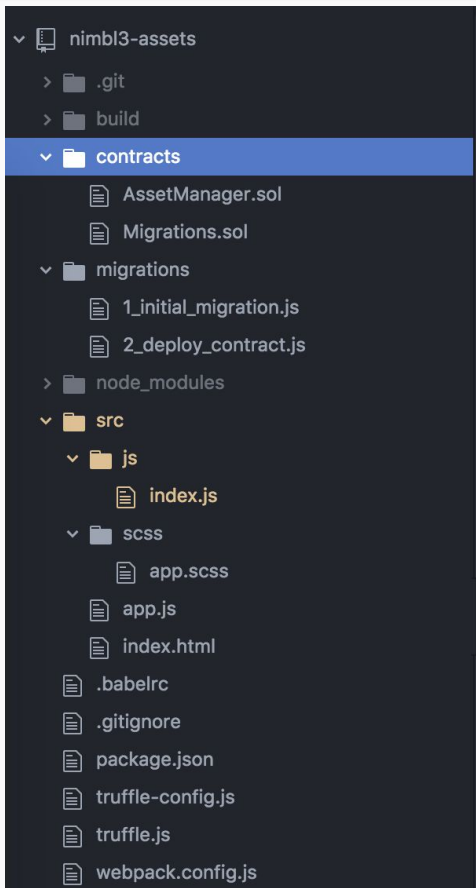
Smart contract

- An application that runs on Ethereum platform
- We can add business logic
- Using Solidity language

Technologies

- Solidity - Smart contract
- Truffle framework - Manage contract, migration, deploy and test contracts.
- web3.js, Javascript, Webpack - Client app
- Metamask - Connect between Browser and Blockchain network

Achievements



Achievements

Screen

Owner: 0xbdd8b3437569d23a88f419e7266fa5a905c59be6

Keyboard

Owner: 0xbdd8b3437569d23a88f419e7266fa5a905c59be6

Mouse

Owner: 0xbdd8b3437569d23a88f419e7266fa5a905c59be6

MacBook

Owner: 0xbdd8b3437569d23a88f419e7266fa5a905c59be6

New Asset

Slug

Name

Add

Feels like building a standard Web application:

- Data lives on Ethereum
- Backend is a Smart contract
- UI/Frontend is the Client application

Not FREE ☐

Every transaction
requires Gas

Smart Contracts:

- Easy: normal programming language and easy to add logic by code
- Hard: really hard to change or update data/business logic after the contract has been deployed onto the Ethereum network

Building a Smart contract
is like building Hardware
products

Next Steps

- Complete other features
- Deploy to Heroku and test Ethereum network e.g. [Rinkeby](#)

Thanks!

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