

NMLab Final Project Proposal

DApp: BidChain

黃品文, 姚慶旺, 張力文

May 2020

Introduction

BidChain is a bidding system based on Ethereum smart contracts. Using a decentralised structure to ensure the fair of competition. Both sellers and buyers' rights are protected under our smart contract.

Solidity API(external functions used by web3)

- (a) `setPrice(address account, uint price, uint goodsId)`
- (b) `bidding(address account, uint price, uint goodsId)` returns (bool, uint)
- (c) `getPrice(uint goodsId)` external view returns(uint)
- (d) `getGoods()` external view returns (uint[])
- (e) `winner(uint goodsId)` external view returns(address)
- (f) `getHistory()` external view returns(address[], uint[])
- (g) `queryIfGet(bool)` external returns()

Process Diagram

