## project 最终报告

#### 1.选题背景

古时候有一种店叫典当行(当铺),即人们拿值钱的物品到店里去换钱,但 是当铺一旦多起来,就会引发去跟哪家换的问题,当然人们倾向于选择出钱高的 店家,而如今,当铺几近销声匿迹,由此想做个具有比较哪家典当行出的钱多, 并帮助用户选择这家店的功能的软件。

#### 2.依据

每次商家出价,都要把币放到合约里,如果是第一个,则不用比较,如果不是第一个,则与上一个出币的人比较,高于他,合约就返回币给上一个人,低于他,此时出币的人得回自己的币。以此类推,符合区块链的特征。

有个交易限定时间,有严谨的时间同步支持。

3.使用说明

构建物品典当事件:

constructor(bytes32 \_shopkeeper, uint timeo, address
\_user) public{

\_shopkeeper:店家 timeo 交易时间

user 用户地址

function theend() 时间到后结束物品收购,将最后出币最多的人的币给用户,物品给截止时间最后一个出币最多的店家。

function chujia() public fangbi

出币

#### 测试:

```
F:\Eth>geth -datadir "%cd%\chain" init genesis.json

INFO [01-07|21:15:13.963] Maximum peer count

INFO [01-07|21:15:14.001] Allocated cache and file handles

dles=16
INFO [01-07|21:15:14.391] Persisted trie from memory database

ctime=0s livenodes=1 livesize=0.00B

INFO [01-07|21:15:14.398] Successfully wrote genesis state

"--c16aac
INFO [01-07|21:15:14.404] Allocated cache and file handles
6 handles=16
INFO [01-07|21:15:14.624] Persisted trie from memory database

ctime=0s livenodes=1 livesize=0.00B

INFO [01-07|21:15:14.624] Successfully wrote genesis state

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```

#### 注册了4个账户.1作为用户.3个作为店家

#### 创建交易:

F: Eth> contractInstance. constructor ("qb1533", 300, q. accounts[0], {from:eth. counts[0]});

### [01-07|21:52:22.457] Commit new mining work.

第一个商家出币 49.

F:\Eth>contractInstance.chujia.sendTransaction( {from:q.accounts[1],value:web3.qbl1(49,"shangjia1"});

## [01-07|21:54:28.788] Commit new mining work

第二个出币 56、由于比第一个高、所以币返回给第一个商家

F:\Eth>contractInstance.chujia.sendTransaction( {from:q.accounts[2],value:web3.qb11(56,"shangjia2"});

## [01-07|21:54:39.422] Commit new mining work

第三个出币 15 ,由于比目前放币在合约里的商家出的低,所以他出的币返回回给他。

F:\Eth>contractInstance.chujia.sendTransaction( {from:q.accounts[3],value:web3.qb11(15,"shangjia3"});

# [01-07|21:55:21.197] Commit new mining work

时间到后, 调用结束交易函数

[01-07|22::22.457] Submitted transaction

GitHub 地址: https://github.com/qb1533/qukuailian