

AskCoin

A real-time Q&A (Question and Answer) platform based on blockchain technology

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1. Overview

With the rapid development of the times of Internet information, the ways people get knowledge and information are increasingly diversified and convenient; in real life, when we have doubts and hence need help from other people, you'll find, in most of the time, that people around you actually cannot timely answer your confusions/doubts, hence we'll divert our attention to the Internet - the biggest open information platform - to seek help. Blogs, microblogs and all sorts of online forums are all good places where perception, knowledge and emotion can be exchanged among people; also, various group chat software/apps that exist can bring us experience of nearly real-time communication. In using the above various communication tools, however, we've also detected some problems:

- *Such ways of communication as blog, microblog and forum are not completely real-time because the posters have to wait for quite a long time before they get replies from other people.*
- *Group chat tools can bring us experience of nearly real-time communication, but group chat is after all not a separate discussion tailored to a question raised by someone but filled with miscellaneous chats that can easily drown the messages of those who need help and answers to their doubts.*
- *People lack motivation and enthusiasm to participate in and reply the questions and doubts of other people.*

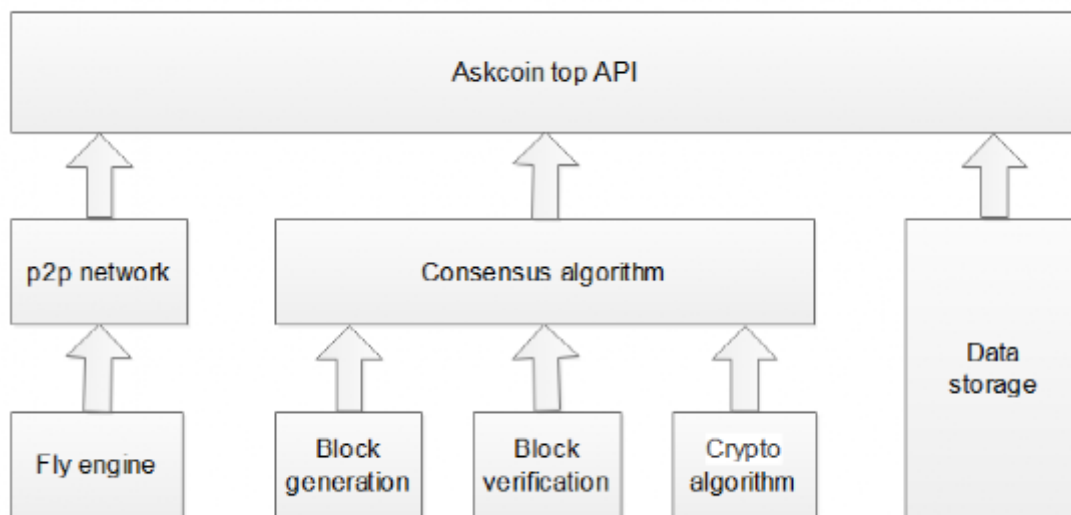
The emergence of the blockchain technology brings us new ways of thinking, new economic models and brand-new definitions of "value". In response to the foregoing phenomena and in combination with the advantages of the blockchain technology, the

AskCoin Project comes into being. After a lot of research and thinking, we think POW is the only algorithm for public chain, we have developed a new POW algorithm: SHA256-AR (asic-resistant) which is really asic-resistant.

AskCoin itself is a kind of cryptocurrency embedded in the system that drives the whole Q&A platform, and it stands for value too. As long as you are willing to help others answer their doubts, the askers'll reward you; also, you may only reward certain replies that satisfy you separately, this is an innovation of AskCoin.

2. Technological Framework

The front-end App of AskCoin, based on the React Native component of Facebook, supports both iOS and Android at the same time. The back-end full-node, developed using system-level language C++ and based on the open-source Fly network engine library (<https://github.com/lichuan/fly>), realize high-performance functions such as distributional network verification, block generation, packaging, broadcasting etc., the technologies stack diagram is set out below:

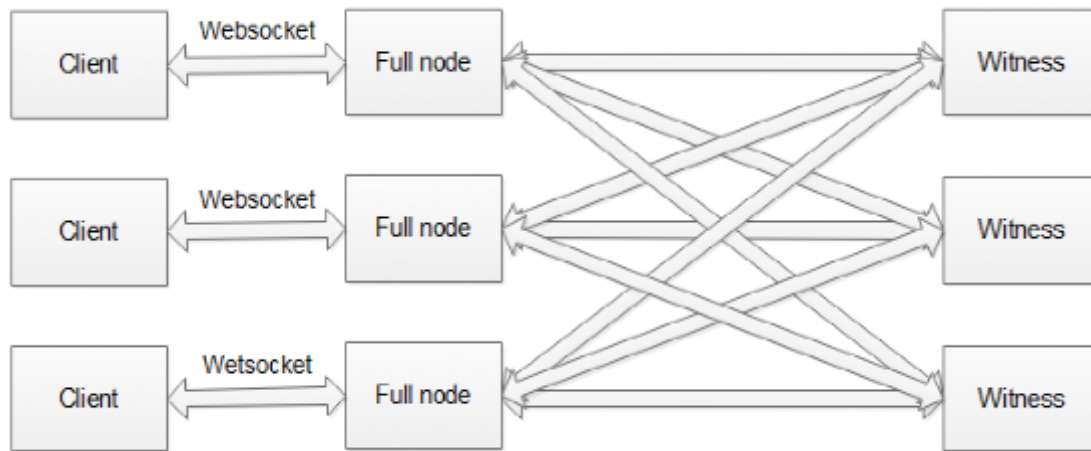


Sketch of AskCoin technologies stack

The logical framework mainly comprises network, consensus algorithm and data storage, jointly forming the foundation of AskCoin.

The mechanism of websocket-based two-way communication between the

front-end and the full-node realizes real-time push & pull of information, the framework is set out below:



Sketch of framework of front-end and nodes

The full-node and the witnesses (miner) are connected via TCP, and they are interlaced one another, forming a broadcast network. When the witnesses (miner) generate blocks, the newly generated blocks will be broadcast to the full-node, which will be in charge of subsequent verification and storage, and push relative information to the front-end App of AskCoin.

3. Size of issue

In order to prevent DDoS attacks, 2 ASK fees will be deducted from the initiator of each transaction. But if you are registering an account, who will pay for it? That's what your referrer should do.

In askcoin, if you want to register an account, you need to enter your username, avatar, and the string signed by your referrer. When the full node receives your registration request, it will deduct 2 ASK from your referrer's account.

Of the 2 ASK fees paid for each transaction you initiate since then, 1 ASK will be paid to the miner's account that put the transaction in the block, and another 1 ASK will be

paid to your referrer's account.

The total supply of askcoin is 1000 billion, of which 500 billion is produced by miners through mining, and another 500 billion is temporarily retained by the founder team for promotion, popularization, attracting users, stabilizing the market and so on. When the project develops to a stable state, we are willing to donate most of our ASK coins and transfer them to the system reserve account to supplement the supply of mining. That is to say, the vast majority of ASK comes from mining.

SPECIFICATION:

Total supply: 1000 billion (considering the long-term support of small reward amount, so a single ASK price must be low enough)

Block time: 20 sec

Block reward: 5000 ASK

Algorithm: SHA256-AR (asic-resistant)

RELATED LINKS:

Full node binary: <https://github.com/lichuan/askcoin/releases>

Full node (source code): <https://github.com/lichuan/askcoin> (The source code of askcoin's Fullnode will be open after it has passed its infancy in order to protect its originality)

Full node (doc): <https://github.com/lichuan/askcoin#askcoin>

Telegram group: <https://t.me/askcoin>

Telegram channel: https://t.me/askcoin_channel

My twitter: https://twitter.com/lichuan_001

Miner (doc): <https://github.com/lichuan/askcoin#miner>

3rd exchange api (doc): <https://github.com/lichuan/askcoin#exchange-api>

Website: <http://www.askcoin.me>

Block explorer: <http://explorer.askcoin.me>

Block explorer (source code): <https://github.com/lichuan/askcoin-explorer>

Whitepaper (English): http://www.askcoin.me/whitepaper_en.pdf

Whitepaper (Chinese): http://www.askcoin.me/whitepaper_cn.pdf

Mobile app (source code) <https://github.com/lichuan/askcoin-client>

Mobile app (android apk): <https://github.com/lichuan/askcoin-client/releases>

For the reasons stated above, when you first register, you need someone to generate a signature string for your registration. You can post a reply here, leave the user name you want to register, or tell me through telegram that I can help you generate this signature string. The person who replies here can get 1000 ASK coins for free. Once you register successfully, you can also help others to generate the registration signature string by using the corresponding function button in the mobile app, and you will automatically become their referrer.

To make it easier for new users to register, we have released a web tool to generate signature strings for users to register. You can access its source code through github: <https://github.com/lichuan/askcoin-gen-reg-sign>

If you are a new user and need to register, you can generate the signature string for registration through the following address:

<http://generate.askcoin.me>

If you want to register through mobile app, you can copy the signature string generated by the above tool to the corresponding input box in the registration UI of mobile app for subsequent registration process.

If you want to register by running the full-node command, you need to modify the config.json file first, and make sure that your node has established a communication connection with other nodes, and then wait for your node to synchronize with other

peer nodes before proceeding with the registration process, and then synchronize your system time with global UTC time (using crontab and ntpdate command).

4. AskCoin Project Team Members

Chuan Li: Project initiator & back-end architect, with over 10 years' experience in system-level C++ development, proficient in development of distributional network framework;

Gu Shui: Front-end development engineer, proficient in such technologies as nodejs, react and etc.;

Cheng Li: Front-end architect, with many years' experience in mobile Internet development;

Lin Wei: Front & back-end development engineer, full-stack engineer;

Xuan Wang: Art designer with many years' experience in mobile-end UI design;

Bruce Guo: Business manager, senior financial/legal translator, proficient in English and good at Russian.

5. Official Website & Communities

Official website: www.askcoin.me

QQ Group for Chinese communities: 452590312

Twitter: https://twitter.com/lichuan_001

Github:

App: <https://github.com/lichuan/askcoin-client>

Full-node: <https://github.com/lichuan/askcoin>

(the source code will be opened only after the infancy stage so as to protect the project)