

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.*

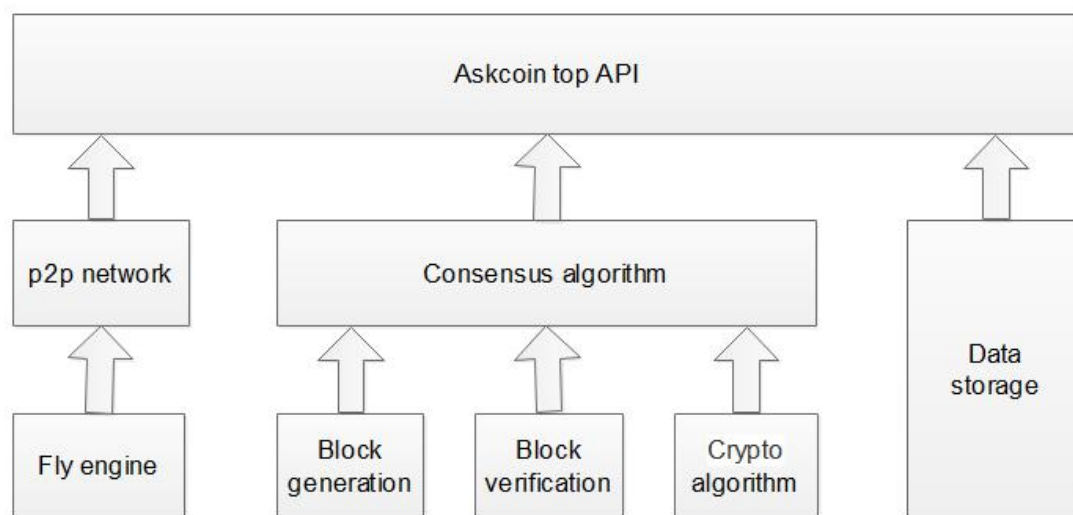
The emergence of the blockchain technology brings us new ways of thinking, new economic models and brand-new definitions of "value". In response to the foregoing phenomena and in combination with the advantages of the blockchain technology, the

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:

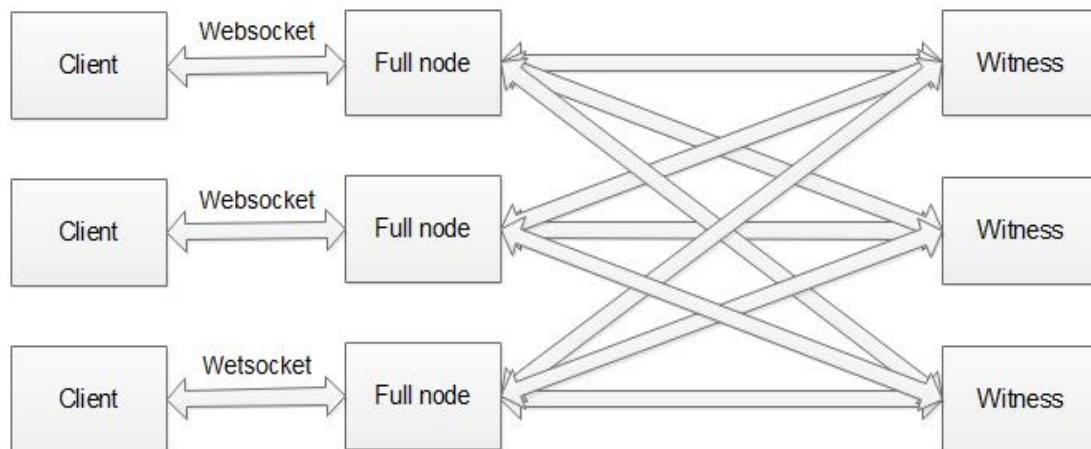


Sketch of AskCoin technologies stack

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

The total amount of AskCoin is 1000 billion coins, 500 billion will be generated by miner; and the other 500 billion is in the hand of creator, for development, maintenance, and promotion.

Such total is due to the reward-type nature of the AskCoin Q&A platform: it's undesirable to appear decimals in a reward amount, this requires that the value of a single Askcoin is low enough.

Block time: 20 sec

Block Reward: 5000 ASK

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. Progress of Development

The project is currently under development sparing no efforts, and part of the App-end UI interface effect has been finished, please see below:



Back-end full-node code is also under development, to protect the project against being reproduced, the full-node codes will be opened on github only when the project gets stable, the AskCoin blockchain network is planned to be formally launched by the year-end of 2018.

6. Official Website & Communities

Official website: www.askcoin.me

QQ Group for Chinese communities: 452590312

Steemit: <https://steemit.com/@askcoin>

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)