



WhitePaper of Auspicious Elephant Wallet

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I .SUMMARY

In recent years, blockchain technology has developed rapidly and will certainly open a new era. Blockchain technology has realized development from zero to one, while various industries have begun to set foot in blockchain and apply blockchain technology. Besides, the governments of the world have begun to pay attention to developing blockchain technology, and many countries have introduced blockchain technology into national regulations to take it as one of the important developments from the perspective of national technology.

Meanwhile, digital asset is fair value reflected from blockchain technology and may become one of the circulated assets in the world in the future. From the establishment of BTC digital currency platform in 2009 to now, BTC system has been operating stably and has automatically realized the process from issuing to circulation. As the basic support technology, Blockchain has gradually separated to form more application scenarios.

However, the crisis of public confidence on blockchain digital asset has an outbreak, which causes serious imbalance of credit and makes digital asset become the tool for some people to reap colossal profits. While Auspicious Elephant Wallet is featured with safe fund trusteeship system, more transparent financial information disclosure, stricter audit process, more perfect acceptance network and richer application scenarios. By aid of its unique means such as data encryption, timestamp, distributed consensus and economic incentive, blockchain technology can be helpful to realize point-to-point trade, coordination and collaboration based on decentralized credit in the distributed system without mutual trust between nodes, thus to solve the problems including high cost, low efficiency, unsafe data storage and reserve fund generally existed in the centralized institutions.

Auspicious Elephant Wallet is one kind of wallet applications connecting blockchain world with real world to help users manage various application scenarios of digital asset. It cooperates with banks, wallets and agencies to commonly issue bank cards of digital currency. The users can apply for virtual or real bank cards through Auspicious Elephant Wallet, and realize recharge to bank cards by aid of digital currency. Meanwhile, the bank cards are accepted by tens of millions of banks in the world for online and offline consumption and transfer.

With the continuous development of blockchain technology and digital currency market, as the blockchain platform, Auspicious Elephant Wallet will provide support for more projects thus to facilitate management and circulation of blockchain assets, make contributions to ecological efficiency enhancement and market prosperity, and break through the barrier between blockchain world and real world. Besides, it engages in providing a safe, convenient and efficient digital asset platform for the public, making everyone use digital asset at any time and in anyplace, enriching the application scenarios of blockchain technology and digital currency and promoting business progress and social development.

II. MARKET OVERVIEW

1. Current market situation of blockchain

With the development and perfectness of blockchain technology, digital currency has developed constantly and enhanced its technology, which has been affecting more and more groups. Since 2013, the blockchain and digital asset users have reached 2 million people, wherein, the quantity of users in 2017 was 10 times more than the quantity of users in 2013. It is expected to realize users of 0.2 billion up to 2020.

2. Overview of Digital currency

Digital currency has been emphasized by domestic and overseas scholars, governments and people since its emergence. It has different characteristics from other currencies in the aspects of credit establishment, issuing mechanism, trade cost, circulation situation and trade security, which is not controlled by anyone and has no issuing subject. Its issuing and trade are all undertaken by all nodes, and the credit

information will be recorded by each node but will not be tampered.

3. Market situation of digital currency

In the past 8 years, the digital currency market has proved its importance to the whole world. According to incomplete statistics, there had been 1370 kinds of digital currencies in the whole world up to the end of 2017. Based on exponential growth of new-type digital currency in each year, it is expected that tens of thousands of digital currencies will appear up to 2035. As the bottom technology of digital currency, blockchain is changing the current era and will completely replace the internet era.

The decentralized digital currency will comprehensively solve the cross-regional currency circulation and payment problems, which can guarantee payment security and largely avoid inflation of legal currency based on blockchain technology. Especially since 2017, various tokens have appeared by the means of ICO, and brought a new round of flourishing for digital currency market.

4. Market pains

Though digital currency is developing rapidly, there have been no good solutions for digital currency storage and management. In face of different types of digital currencies, the users need to allocate different assets and make disperse investment. Therefore, the management threshold will be further upgraded. Decentralized and centralized management will be conducted for different types of digital currencies thus to realize compatibility of security and convenience.

Digital currency needs to have wider application scenario in order to realize long-term development. With the deep research on blockchain field, especially exploration on smart contract, more product schemes should be formulated to combine with real economic life in order to realize win-win.

III. AUSPICIOUS ELEPHANT WALLET

1. What is “Auspicious Elephant Wallet”

Auspicious Elephant Wallet is a fast, private, safe and convenient solution for cross-border remittance and payment of digital currency, and its service carrier is mainly composed of Auspicious Elephant Wallet, Wallet APP and digital currency bank card. Auspicious Elephant Wallet provides solutions to rapidly deploy blockchain for enterprises and users, realizes one-stop management of various digital currencies and digital currencies of enterprises, completes simple and convenient digital currency transaction and exchange, besides, it can bind digital assets with bank card to realize seamless connection between digital currency and real world. The confirmation time for each transaction is not more than one second while capitals can be instantly used once being transferred into account, therefore, any information server or other

third party can not obtain the materials of users (such as income and outgoings, transaction history, address of lender/receiver).

Under the situation of abiding by the laws and regulations of different countries, Auspicious Elephant Wallet will be launched in the whole world to connect with different financial institutions, and provide safe product and service for users.

2. Auspicious Elephant Wallet in multiple blockchain asset management

Auspicious Elephant Wallet provides management on multiple blockchain assets for users, manages multiple digital currencies in an unified way through wallet app, which can not only support storage and management of mainstream currency but also support marked agreement of smart contract platform and rapidly increase tokens issued in various platforms. It persists in the core factors of blockchain, and provides digital currency storage scheme of security consensus mechanism. Besides, it can store the data in standard SQL database in real time and read these data based on external network service for users. The long-term encrypted data will be recorded in open storage service by the form of standard XDR binary format thus to facilitate downloading or mirroring, which is a set composed of various simple operations. It supports multiple-signature and other innovations thus to conduct management and realize trade of different digital currencies.

3. Language support to mainstream countries

Auspicious Elephant Wallet will support multiple languages of mainstream digital currency markets of China, Thailand, Britain, Western, Japan and Korea, and meanwhile develop the languages of mainstream developed countries of Russia, France and Germany in order to comprehensively connect with global service.

4. Digital currency exchange and trade

By aid of exchange network and based on connecting with exchange API, Auspicious Elephant Wallet provides convenient and safe exchange and transaction service for users.

➤ Safe currency exchange

Through Auspicious Elephant Wallet, the users can realize exchange between digital currencies. The platform party or other third party establishes the smart contract of exchange, while the contract mechanism monitors and implements the exchange

process thus to avoid default risk of participants in the trade process. Compared with centralized platform service, smart contract can effectively avoid subjective default risk of platform party or objectively avoid loss of users. In the Auspicious Elephant Wallet, various digital assets can be exchanged freely and safely.

➤ Convenient trade

Digital currency trade through exchange faces certain entry threshold and learning cost. Auspicious Elephant Wallet provides optimal market price and simple operation experience for users through connecting with API of exchange. Besides, it presents the trade price to users clearly through advanced screening mechanism system thus to facilitate users in trade.

➤ Simple tool

Auspicious Elephant Wallet relies on payment institutions to provide credit-card consumption channel and mobile-end POS for users. In order to purchase equivalent legal currencies, users only need to initiate purchasing trade in Auspicious Elephant Wallet, connect mobile end with POS to realize credit-card consumption and complete trade. Afterwards, the bank card will deduct equal

amount while the Auspicious Elephant Wallet will also obtain equivalent digital currency.

5. Digital currency bank card

In order to connect the digital currency with real world, Auspicious Elephant Wallet cooperates with card issuers to provide debit card opening function in its app thus to support the users to apply for opening real card or virtual card, recharge by using digital currency, make trade and consumption in real world. The formats are as follows:



The digital currency bank card has the following characteristics:

➤ Fast card opening

The users can open the card through the following steps including online application in Auspicious Elephant Wallet, selecting physical card or virtual card and

filling in basic KYC information. The virtual card will instantly take effect after being opened, and the users can use it instantly; while the physical card needs certain period for card-making, which can be sent to users within 2 -3 weeks.

➤ Real-time exchange

When the users need to conduct online or offline trades based on bank card, they can exchange their stored digital currency to legal currency and recharge it to bank card for trade through Auspicious Elephant Wallet app in accordance with the current market exchange rate. The users always own digital currency asset in their own accounts, which can be exchanged in real time for consumption or trade.

➤ Currency exchange at anytime and anyplace

The users can realize exchange between digital currencies, exchange between digital currency and legal tender as well as exchange between legal tenders in the Auspicious Elephant Wallet Bank Card no matter where they are. The users can abstract local legal tenders from local ATMs through using Auspicious Elephant Wallet Bank Card. Meanwhile, Auspicious Elephant Wallet Bank Card can help users to eliminate capital loss caused from exchange rate fluctuation.

➤ Hardware Wallet Technology

The user will securely store the private key on the Auspicious Elephant bank card and will never leave the bank card. At the same time, Auspicious Elephant bank cards are protected by PIN security and cannot be used even if they fall into the wrong hands. In addition, the multi-guarantee technology of Auspicious

Elephant bank card allows users to set small amounts of money without reading with private keys, thus facilitating users to conduct small transactions. However, large transactions still require the user to read the private key of the chip in the bank card before they can be used.

➤ Bank Cards Created Block Chain Technology

Auspicious Elephant card bag is a bank card issued in digital cash based on block chain technology. Each transaction record of the user will be stored and will not be tampered with. In this way, compared with the current bank cards in the market, it is safer. It can track information in the first place and trace its origin when it occurs fraudulent transfers. For current bank cards, the security of digital bank cards will be a subversive iterative upgrade.

➤ One Card,One Bag

Auspicious Elephant bank card and Auspicious Elephant card bag are perfectly combined. Under certain circumstances, the card can replace the mobile terminal, and the mobile terminal can also replace the physical card at any time. Whether it is a card or a mobile terminal, it all can realize the functions of the current bank card, or even more. For example, a series of functions such as traffic credit card, living expenses, daily consumption, public welfare undertakings, cross-border transfer, etc.

➤ Strong Compatibility

Digital bank cards with self-developed chips have strong compatibility and will be able to add functions such as display screen, curved type card, transparent display, VR, AR and others in the bank cards. In the future, all kinds of new types upgraded by the technology which are suitable for digital currency bank card will be added to the bank card.

6.Circulation mechanism

Investor: Auspicious Elephant Wallet can help investors realize asset management and avoid some risks. Merchants: digital currency can realize real-

time accounting and reduce service charge from traditional institutions, help merchants to realize digital currency cashability, increase investment returns and enhance operation benefit.

Consumers: it can conduct online and offline consumption, realize real-time trade and solve the current situation of digital currency cashability for consumers. Meanwhile, it can reduce service charge for consumes in cross-border transfer and enhance transfer security.



6.Application scenarios of Auspicious Elephant Wallet

Before the appearance of blockchain, we have no method to realize point-to-point value transfer and transmission through internet without the help of the third party credit institution. With the increasing maturity of blockchain technology, the application scenarios of blockchain are not just limited in purchasing digital currency. Auspicious Elephant Wallet combines upper chain and lower chain of blockchain to form fresh blockchain business ecosystem.

Wide application scenarios

Online and offline trades can be conducted through the bank cards issued by Auspicious Elephant Wallet. Whether for online payment of domestic and overseas e-businesses or overseas remittance transfer, better rate and higher

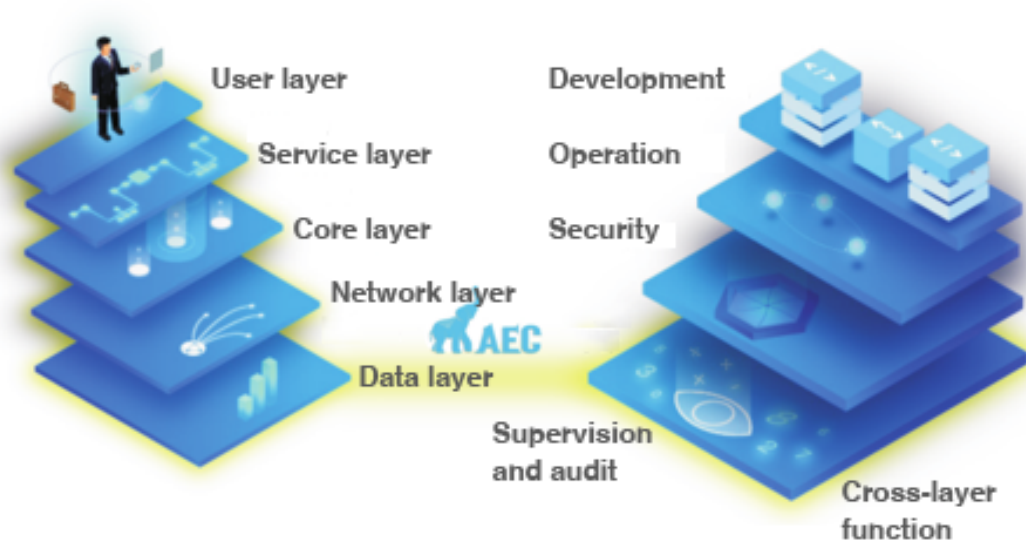
efficiency can be realized compared with traditional channels. Meanwhile, the bank cards issued by Auspicious Elephant Wallet can also support consumption in global tens of millions of branches, support withdrawal of local currency from ATM machine in over 200 countries and regions, which provides great convenience for overseas study, travel and business activities.

The typical application scenarios include:

Cross-border e-commerce shopping--when the users need to use foreign currency to pay for orders on the overseas e-business platform, they only need to bind their real or virtual card to corresponding e-commerce platform account to recharge bank card with digital currency for payment;

Overseas travel consumption--when the users travel in overseas, they can realize consumption and foreign currency enchashment through opening real bank card and recharging in Auspicious Elephant Wallet based on digital currency in order to eliminate troubles in exchange;

Cross-border remittance: Whether for overseas study, work or business contacts, remittance transfer can be realized in domestic and overseas through using digital currency in Auspicious Elephant Wallet, real-time consumption or enchashment can be completed with transfer speed and rate superior than those of traditional service providers.



IV. TECHNICAL ARCHITECTURE

1. Start consensus protocol (SCP)

SCP is the first safe and provable realization of Federal Byzantium Agreement. Different from most existing methods for consensus realization, SCP has the following four key attributes: decentralized control, flexible trust, low latency and progressive security. As a Federal Byzantium Agreement, SCP guarantees security in face of non-rational behaviors and needs limited computing resources, which reduces entry threshold. The certifiers can make each verifier believe that one

judgment is correct without providing any useful information to verifier, while Auspicious Elephant Wallet proves that technology completes cross-chain and cross-intelligent contract technology through zero knowledge.

2. SHA512-ZERO algorithm encryption technology

SHA (Secure Hash Algorithm) is a series of password hash function designed by NSA and published by NIST, which researches and develops SHA512-ZERO encryption technology exclusively belonging to Auspicious Elephant Wallet through customizing SHA512 encryption technology, guaranteeing network data security of Auspicious Elephant Wallet.

3. Ring Topology Hub ring topology relay technology

The Ring Topology Hub technology of Auspicious Elephant Wallet connects multiple chains to one Hub to realize one-button cross-chain and transformation of digital asset terminal. The advantage of ring form lies in smaller resource consumption compared with star form and tree form, which may not be obvious in face of few nodes and close distance, while this advantage will be significant when the distance is far and the nodes occupy a large proportion. The design structure is shown as follows:



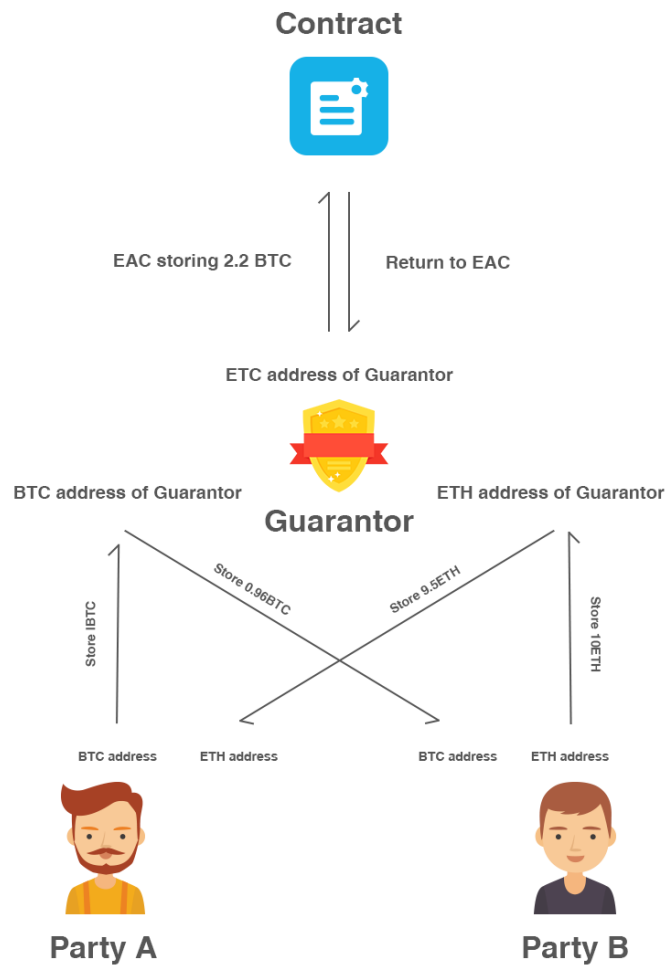
4. Technology engine

The technology engine of Auspicious Elephant Wallet can realize the purpose of lightest wallet. Currently, light wallet faces a huge problem that it needs to receive the block information of blockchain network. Because the blockchain network realizes data security through synchronous redundancy of data, the network request of light wallet occupies large number of network bandwidth. We persist in the design idea of making blockchain browser become the block data source without synchronizing block data. However, using the data source of blockchain browser will cause one problem, namely, how to guarantee correctness of data source. We adopt the design architecture of BCBP(Block Chain Browser Pool), and the design diagram is shown as follows:



5. NO-LOCALCOIN exchange network

Based on Achain blockchain platform, NO-LOCALCOIN exchange network realizes non-risk digital currency exchange through customizing smart contract and cross-chain gateway technology. The platform of Auspicious Elephant Wallet or the users holding tokens of Auspicious Elephant Wallet can all establish smart exchange contract thus to provide guarantee service, avoid default, avoid biased arbitration of centralized trustee agency and eliminate loss of the involved parties. The contract creator can obtain guarantee return of certain proportion after the completion of exchange trade. The whole process diagram is as follows:



6. ZeroPay lighting payment network

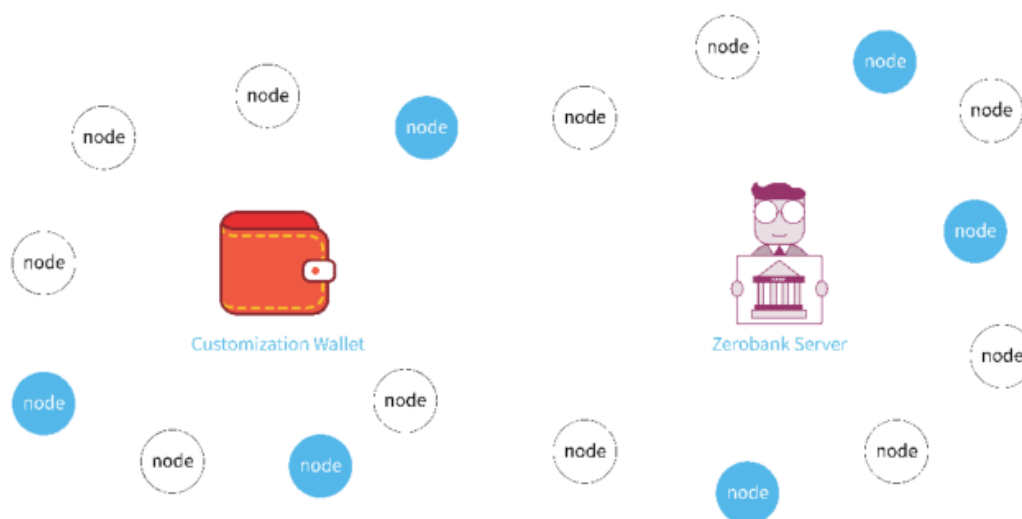
Blockchain decentralization will cause the problem of low payment efficiency. We rely on the following technologies to realize lighting payment network (establishing VPN sub-network based on existing blockchain network in essence) of Auspicious Elephant Wallet, confirm the remittance transfer instantly and guarantee real-time credit-card consumption without being affected by blockchain. The technology design emphases are as follows:

Customize mobile client ends and make HA512-ZERO encryption marks aiming at the blockchain transfers of Auspicious Elephant Wallet users; develop

enterprise-level blockchain nodes, inspect the blockchain activities of Auspicious Elephant Wallet users, conduct validity test and flow analysis.

The service end of Auspicious Elephant Wallet can receive the analysis results of enterprise-level blockchain nodes, therefore, whether the users have practically made blockchain transfer requirements can be determined when the users make credit-card consumption requirements in order to avoid vicious two-way consumption.

The following figure (the blue nodes represent the sniffing nodes in the global deployment):



V. DETAILED RULES OF TOKEN

1. Issuing mechanism of token

The token for Auspicious Elephant Wallet is auspicious elephant coin, one billion of total issuing quantity without additional issuing.

Proportion	Distribution scheme	Details
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20%	Pre-sales	Used for subsequent development, talent recruitment and market promotion of AEC project. The usage of this part of capitals shall be published regularly.
30%	Mining	The users can provide services such as hash and data support to AEC and AEC chain as well as mining on the AEC platform. This part involves 30% and will realize mining within 8 years without additional issuing. Wherein, 5% will be released for each year in the first four years and 2.5% for later four years.
5%	User incentive	Used for giving awards to users and stimulating them to download, promote, store coins, consume and transfer
10%	Development Fund	As the development reserve fund of AEC, used for later project development and business ecology establishment as well as international business development. This part of capitals shall be determined by the Foundation and published in advance.
15%	Founding team	In order to pay back to the exploration and development of the founding team in digital currency field, and maintain the payment for AEC product technology and operation development, release tokens. In case of token issuing, part of tokens will be locked by smart contract, 3% of the part will be unlocked after one month.
5%	Early investors	The early investors make contributions to the financial resources, material resources, strategic planning and talent assistance in the AEC development process, and tokens are released to be returns.

		The tokens will be locked after one month they are released in the exchange, 20% will be unlocked each month, lasting for 5 months
15%	Institutional investors	Used for paying back to corporate investors, establishing business cooperation with cooperative enterprises. The tokens will be locked when being issued after one month they are released in the exchange, 2% will be unlocked each month, lasting for 50 months.

VI. BUSINESS MODE

1. Gas of digital asset consumption

In Auspicious Elephant Wallet, Auspicious Elephant coins should be consumed as the mining fee of Gas for establishment and transfer of any digital assets.

2. Hash expense

In Auspicious Elephant Wallet, if the project owners needs to generate one side chain rapidly, they need to save certain quantity of Auspicious Elephant coins in the contract thus to attract miners to provide hash for them. Similarly, if the project owners want the users to provide decentralized hash, data support and mining service, they also need to pay certain Auspicious Elephant coins in advance.

3. Exchange expense

In order to complete exchange function between different digital currencies, the users need to pay certain exchange expense to obtain decentralized exchange service.

4. Service charge deduction

When the users conduct exchange trade based on digital currency through Auspicious Elephant Wallet, they can rely on the current market value of Auspicious Elephant Wallet to deduct the service charge. In the future, the Auspicious Elephant Wallet team will cooperate with exchanges to deduct the service charge of digital currency as much as possible.

5. User incentive

The users holding Auspicious Elephant coins can all act as the contract creator in the currency exchange service of Auspicious Elephant Wallet, and obtain service charge income through promoting exchange trade.

The users binding bank card in Auspicious Elephant Wallet can obtain 10% of service charge for cash return in each consumption, which will be automatically released to the wallet of users by means of Auspicious Elephant coins, which can not only make users obtain cash return but also can further expand the user group of Auspicious Elephant coins.

VII. PROJECT PLANNING

Step	Time	Milestone	Functional service
First stage	2018Q3	Project Launch of Auspicious Elephant	1. Complete the white paper of the project and build the project team;

		Wallet, issuing of Auspicious Elephant coin	2. Issue tokens of Auspicious Elephant Wallet and start ICO.
Second stage	2018Q4	Online exchange of Auspicious Elephant coin; Auspicious Elephant Wallet APP1.0 Currency exchange Connect with the exchange	1. Online exchange of Auspicious Elephant coin; 2. Development completion and launch of Auspicious Elephant Wallet APP1.0; 3. Support the management on mainstream tokens such as BTC, ETH and USDT; 4. Realize non-risk guarantee trade; 5. Support convenient digital currency trade within the APP
Third stage	2019Q1	Issue bank card of digital currency	Issue bank card of digital currency, connect digital currency with bank card, support online and offline trade
Fourth stage	2019Q2 and subsequent time	Continuous iteration	1. Optimize currency exchange and trade services, perfect the usage process and scope of bank card of digital currency; 2. Explore to cooperate with banking financial institutions, provide diversified and innovative services for users, realize the platform connecting banks, payment system and personnel

VIII .TEAM INTRODUCTION



Tim Zhu 首席执行官

Over 25 years of experience in working and investing in finance, technology, education and high-tech industry, holding executive positions in several US and Singapore companies. His wealth of experience and successful track records in the financial sector has equipped him with expertise and skills in sales, technology, risk and organizational management.



Will Chow 运营官

Master of Science in Hong Kong Polytechnic University. Since 2011, he has been in contact with the Internet, joined the construction and operation team of the China Disabled Persons Service Network, and participated in the prototype and construction of the employment platform. In 2014, he joined Renhe.cn and served as the director of platform operation, and assisted the founder to complete mobile products "HE CHAT". At the same time, the research work of competing products and in-depth user demand mining. During the period, he was responsible for rebuilding the membership system, building a credit certification system, and third-party application service cooperation and other major product upgrade projects. At the beginning of 2018, he began to join the block-chain field and re-start his business.



Chase Jiang 产品官

He has 5 years of product experience in a listed company and 5 years of continuous entrepreneurial experience. Achieve the rapid conversion of a variety of products from 0-1-N and realize the commercial value of their products. Leading the construction of excessive business financial wallet products, updating iterations. Rich insights on finance and block-chain products; Mainly responsible for product strategic planning, business architecture, data analysis, user experience, etc.



Burton Sun 区块链工程师

He has 2 years of foreign enterprise experience, three years of Internet finance industry is mainly engaged in the design and development of P2P core code, development and design of financial system and operation system. In 2 years of development of block-chain technology, developed version 1.0 of the jingtong wallet, and based on the design of jingtong public chain, HNA's B2B wallet (to guarantee the combination of wallet and HNA's existing supply chain) and B2C wallet (to guarantee the payment connection between wallet and HNA's internal stores) were developed.