Feilian cloud

Metaverse·3DNFT

NFT+Metaverse+GameFi

white paper1.0

Introduction

The full name of NFT is Non-Fungible Tokens, often translated as "unhomogenized / irreplaceable tokens". Simply put, the NFT is an entry in the blockchain, which is a decentralized digital ledger technology similar to cryptocurrencies such as Bitcoin. Because of the irreplaceable characteristics of NFT, this means that it has inseparable, irreplaceable and unique characteristics.

• Standardization: NFT has some standardization functions, including ownership, transfer, etc. All non-homogenized tokens have these functions. Any developer can use this feature to build their own NFT.

• Universal: NFT is universal, that is, any app that wants to use NFT can use it. Because blockchain is publicly accessible, and everyone can read the smart contract to deploy NFT.

• Liquidity: The liquidity market related to crypto assets is huge. People can easily switch them into cash or other cryptocurrencies according to their needs. Thus, the NFT is highly mobile.

• Invariance: NFT is achieved through smart contracts. This makes the NFT immutable, where the user cannot change its NFT to another NFT. Ownership of the NFT will be permanently recorded in the blockchain unless the user decides to transfer it to other users.

• Programmable: NFT is implemented through smart contracts. NFT tokens can be enhanced and contain other complex functions.

Feilian cloud Metaverse 3D NFT (Feilian cloud Metaverse) is creating a new ecosystem of digital assets and physical assets value circulation with NFT as the core. On the basis of the metaverse model, it is realizing the upgrade and circulation of 3D digital products, and opening the NFT collection, trading and auction functions.

Feilian cloud Metaverse advocates the decentralized design concept

and organizational structure, subverts the existing centralized financial approach, expects to become a bridge between blockchain and users and investors, and helps users to participate in the reform of decentralized finance faster and better. The real reach depends on transactions to reduce both costs. As the world's first chain game integrating DEFI, NFT and metauniverse concepts, Feilian cloud Metaverse introduces more innovations to the chain game, including: new DEFI decentralized finance (GameFi), NFT non-homogenization protocol, metauniverse immersive game experience, Play-to-earn earn while playing, DAO governance model, etc. At the same time, Feilian cloud Metaverse also use revolutionary metaverse value can assign, the future can be traded in the meta universe, auction, will come from the block chain DeFi + NFT + metaverse + chain swim perfect combination into the encryption world, using the financial mechanism and game system to give users power, to create a truly unique and lasting game financial ecosystem.

This white paper mainly introduces Feilian cloud Metaverse product sources, product architecture, technical features and advantages, industry applications, etc. At the same time, the commercial-level NFT product circulation and industry solutions created by Feilian cloud Metaverse will also provide more users with a high-performance and highly scalable blockchain basic service aggregation platform, with the ability to quickly build the upper-level application business, and meet the application scenarios of large-scale application number.

Contents

Project context

Industry development overview

In 2020, the global outbreak of the epidemic has hit their economies more hard. In this case, DeFi rose, exploded the market and became the annual hot spot of the blockchain industry in 2020. In 2021, the DeFi boom continues, and the verticals represented by NFT also begin to work hard, which gives the cryptocurrency field more attention and participation of traditional institutions and ordinary users.

With the launch of the Ethereum smart contract, the concept of DeFi, or distributed finance, has emerged in 2018. The significance of DeFi is that it has the ability to build financial scenarios through contracts. Through smart contracts, people can complete financial services without middlemen, such as lending, stablectoins, tokens trading, derivatives trading, insurance, forecasting, etc. It presents a different financial service characteristics from before. For example, it has a tamper-proof and transparent ledger, non-human controlled contracts, even the developer of the contract, the developer of the agreement, can not control the operation of the contract, this is a new financial ecology, with a lot of possibilities.

The DeFi market will continue to grow in 2020, with Dapp trading volume already exceeding $270 billion, 95% of which is accounted for by Ethereum's DeFi ecosystem. In early 2020, many investors are not optimistic about DEFI market, and compared with the flash in the pan ICO in 2017, and that the future of DEFI will face collapse, however, there are still 1.7 billion people on the earth cannot use traditional financial institutions continue to promote the development of DEFI industry, DEFI is not speculation, is real financial behavior, in 2021, DeFi will become a more mature financial market, and may even become a part of the central

finance. In addition, the NFT is also experimenting with various areas of possibilities.

The concept of NFT has since originated from a popular app, ———— CryptoKitties (crypto cat), and NFT is short for Non-Fungible Token, meaning a non-homogeneous token, mainly issued by the ERC-721 standard. Simply, each NFT is a unique digital currency asset that can be circulated, traded and purchased. It has different values and attributes and is not interchangeable.

The process of generating the NFT is not very complicated. Currently, with support for pictures, audio, video, game items, and other forms, the file content is included in its metadata, to create a unique Token. In all forms, they are divided into art, collectibles, games, metaverse, sports, and infrastructure. The difference is that publishing content on the social media Internet may be deleted or banned by operating companies, or for other reasons. And the NFT content posted on the blockchain can be permanently saved and is unique. NFT inherits the characteristics of blockchain, giving digital content uniqueness, tamper-proof and persistence.

Through the development process of NFT, we can see that the rise of NFT has given greater support to the industry. In addition, the popularity of DeFi and NFT also makes DAO, which has been quietly contributing its core values to the industry, be supported by users.

With the development of information technology and the increasing complexity of the organization itself, the employment relationship and management mode of traditional organizations have been difficult to adapt to the complex and changeable environment and the requirements of the new generation of individuals. Decentralized au tonomous organization (decentralized au-tonomous organization, DAO) will decentralization, autonomy, autonomy and token economic incentives, each of the elements

of the system as assets, make monetary capital, human capital and other elements of capital full fusion, so as to better stimulate the efficiency of the organization and realize the value circulation, to solve the existing organization management problem provides a good idea.

The full name of DAO in blockchain is "Distributed Autonomous Organization" (Distributed Autonomous Organization), which is a form of blockchain-based organizational structure. It can operate autonomously without intervention and management through some open and impartial rules. These rules will often come in the form of open-source software, where anyone can become a participant in the organization by buying its shares, or by providing services. In some ways, DAO is like a fully automatic robot. When all its programs are successful, it can operate according to the original rules. In the process of operation, it can also constantly self-maintenance and upgrade according to the actual situation, through the continuous self-improvement mechanism, to adapt to its surrounding environment.

The shape of a DAO has changed dramatically, and it can be a certain digital currency, a system or an institution, or even a driverless car. Their valuable services to their customers can be currency transfers (such as Bitcoin), application platforms (such as ethereum), domain name management systems (such as domain currency), or any other business model, clearly more like a stock of a particular institution than a single currency. Each DAO has its own terms and conditions. Users will always have the right to view and may reward their own, disposable, DAO shares in the form of digital currency.

Web3.0 the revolutionary

In the post-epidemic era, the digital economy is booming, and there is a super trend in the online world, where more and more people are trying to make a living online. According to incomplete statistics, nearly 50

million influential people make a living by producing content. The complicated content covers everything. When we look at the essence through the phenomenon, what is really presented before us is the valuable data assets, and people's struggle for these data ownership has never stopped. So, a about Web3.0 sovereignty revolution in full swing, represented by Metamask little fox decentralized wallet as the entrance of Web3.0, is committed to help users get rid of the limitation of identity and region, have multiple, free and more censorship identity of ID (IDentity), to break the traditional Internet giant monopoly of data asset ownership, to return to the user. From the wallet to the Web3.0 world, we found that the world is so colorful and vibrant, with many new hot waves like DeFi, GameFi, SocialFi, DAO and NFT, and Millennials and Generation Z (Generation Z) calling out loud Slogan s like "All in Web3", causing widespread discussion on social media. The most fascinating thing about Web3.0 is that it opens up a whole new Earn paradigm, in which for the first time it reveals the value of the data it has created!

In Web3.0, in this rapidly emerging field, innovation around "X to Earn" is always emerging, and X represents both the unknown and the diverse. For example, take the lead to open "Play to Earn" play while making first Axie Infinity, its daily active users (DAU) once broke through 2 million, NFT historical sales of more than $4 billion, successfully revitalize the years has been tepid GameFi chain swim market, Invest Game released in 2022, the 2021 global game investment report shows that the game industry investment focus is tilted to the chain field. In 2021, the total investment number of chain tourism reached 135, up 1,130% year on year, and the total investment scale was as high as 3.1 billion US dollars, up 6,810% year on year, accounting for 26% of the total private capital raised in 2021. At the time of writing this white paper, the weekly trading volume of the GameFi chain travel market has exceeded $200 million.

The Development of the NFT market

The first NFT appearance in the public eye was a game a few years ago (Crypto-Kitties). The game is as simple as that game developers deploy a "cloud cat" game on Ethereum (ETH), where players can pay for ETH and buy all kinds of cats in the game. So how do you prove that you have a cat, not someone else? That's right, after paying for the ETH purchase, your account will receive the NFT of this cat, which is the "certificate" for owning the cat. By analogy, if someone buys another cat, they will have an NFT of another cat, or the "certificate" of another cat. And between these vouchers, nature is different. Of course, because the data on the blockchain is immutable and the public, your ownership of the cat is recognized and protected by the entire blockchain system.

Unlike traditional virtual pets, previous virtual pets were kept on the company's servers, and they disappear once the company closes. Crypto cats cannot copy, tamper with, and destroy the Internet through the blockchain approach, which means that you can permanently own the virtual pet, and that you can save, circulate, and trade on any Ethereum blockchain system.

The app has sold for millions of dollars a day since its launch, with the most expensive being the Dragon crypto cat, which sold at 600ETH, or $270,000 a month.

However, the Etherum cat project declined under the combined influence of a lot of games of the same type, the lower attention of the currency circle, and the low transaction speed of Ethereum.

Today, the NFT is booming in the art market. In fact, the art NFT and the game NFT are similar: for example, artists can pay the ETH, send their work information to the ETH network, and get the NFT with the information about the artwork, which is the "certificate" of owning the painting. After the buyer bid and paid for the ETH, the NFT of the work was sent

from the artist to the buyer, and the buyer now got the NFT of the work, the "certificate" of owning the painting.

The NFT has a much longer history than most people think. The first attempt at NFT was in the Colored Coin era of 2012-2013, and in 2018 and 2019, when there were more than 100 projects in the space, and more projects continued to join. In 2020, with the popularity of the DeFi concept, the NFT once welcomed a new life, which laid the foundation for the explosion of 2021 again. We believe that while it is 2021, the NFT industry is still in its very early days. Despite the tremendous growth of the NFT over the past year, the NFT ecology remains very young and, therefore, the growth will only continue.

Indeed, we believe that the growth of the NFT ecology will accelerate as more people and companies realize the impact that the NFT can have and implement them further. Developers will continue to create innovative uses for NFT, and interoperability is available for projects that will revolutionize the game. We predict that in five years, the NFT will change the industry dramatically!

The industry's current problems

DeFi has created many miracles due to its unique advantages, but with the rapid expansion of the ecology, DeFi and its subdivided NFT, DAO and other areas still have the following pain points to be solved:

- How to achieve the cross-chain assets swap
- Decentralized storage
- How to break through the performance bottleneck of TPS
- The DeFi platform is too single, and it can easily cause congestion
- Technological breakthrough of Layer 1 & Layer 2 in public chain technology
- Security testing and audit of contracts
- How to ensure the safe and reliable custody of digital assets, to

avoid becoming a paradise for hackers

We believe that some technical bottlenecks will be gradually resolved. On the contrary, some non-technical problems may become the biggest challenge of open finance, but also where the business opportunities lie. At present, DeFi is still in the preliminary stage, but some forms and problems have been initially reflected.

For the DEX track, as previously said, the core of the competition is reflected in fees and fuel costs. For the Lend & Borrow track, it is fully reflected that users are chasing high yields.

And centralized exchange (CEX) experience, in a close to homogeneity, and close to completely competitive market (in theory as long as there is the world network can participate in DEX, and without KYC), can foresee the future competition will be into the same process as centralized financial, into a pursuit of high yield game, resources to advantage project continuous tilt at the same time. Moreover, due to its own human nature weaknesses (greed + risk tendency), such a tendency to pursue high yields will also lead to a second serious problem and a major challenge.

Due to the weakness of human nature itself, the tendency to pursue high yield will inevitably lead to the next major challenge, which is that in this process, there will be a process of good money driving out bad money. Because of the natural weakness of profit greed and adventure impulse, the tendency to pursue high yield, will inevitably lead to two foreseeable trends:

- Resources are tilted toward the dominant DeFi projects
- Good DeFi will expel the bad DeFi project

Project elaboration

Project profile

Based on the prospect of blockchain technology, digital currency and the value of DeFi and NFT innovation, Feilian cloud Metaverse grasps the opportunities of The Times and actively layout in the NFT field, in order to realize a new financial ecological construction of digital assets and physical assets transactions.

Feilian cloud Metaverse is positioned as the global digital collection collection and trading platform, is committed to realize the transformation of NFT value, circulation, service and the depth between users, effective interconnection, through block chain technology, organic integration of digital collection industry chain of any valuable NFT products, and for investors and merchants to create a chain of ecological value, make the whole all participants on the ecological chain value interconnection.

Feilian cloud Metaverse is co-founded by Ali department, well-known overseas R & D personnel and professors from well-known universities and other personnel. With the support of online and offline entities, it hopes to realize the communication between independent ecosystems and build a bridge between each continent, so that human beings can understand the new business world built by blockchain from a new dimension.

The project party conducted algorithm research on bitcoin blockchain in 2014, and began to develop BaaS at the bottom layer of the blockchain in 2017. In early 2018, it deeply developed the unreal engine metauniverse 3D technology, and until today, it began to discover the value of digital collections. Feilian cloud Metaverse is a digital product market that includes collectibles, game items, digital art, and other digital assets,

supported by blockchains like Ethereum.

The Feilian cloud Metaverse project party has been deeply engaged in blockchain and digital currency transactions for many years, especially in the NFT field, becoming unique, providing investors with a full range of asset management services. In terms of blockchain technology, the Feilian cloud Metaverse project side is committed to promoting the building of a third blockchain ecosystem besides Bitcoin and Ethereum, and expanding the application boundaries and technology boundaries of blockchain technology, so that ordinary Internet users can feel the value of blockchain technology.

Feilian cloud Metaverse is about to reach long-term strategic cooperation agreements with many global cultural and creative teams, meta-universe IP, artists, corporate brands and other IP companies. The team spends a lot of money to create Feilian cloud MetaverseIP, complete world view and grand background from novels, games, metaverse and other full dimensions, to create the world's first cultural IP composed of digital collection, art, novels, games and other elements. The world, which originally only exists in stories, novels and animation, uses Unreal Engine 5 to develop the metauniverse games such as leisure and competition, and reproduce the metauniverse through real virtual forms such as AR, VR and XR. Let digital collections derivative into the virtual metauniverse with real value, giving digital collections more value. To achieve sustainable digital collection consumption, collection, digital collection yuan-universe interaction, offline entity brand innovative connection and experience, and promote the economic construction of the current digital civilization.

The Feilian cloud Metaverse project party is committed to building the world's leading NFT application and DeFi underlying blockchain system, and through the landing of the Feilian cloud Metaverse world project,

change the existing distributed financial technology and application ecosystem, expand the application boundary and technology boundary of blockchain technology, so that ordinary Internet users can feel the value of blockchain technology.

coming, With the support of the underlying technology, Feilian cloud Metaverse will continue to expand the application of ecological construction, To create an application scenario based on the innovative meta-universe + the new DEFI decentralized finance + NFT non-homogeneous protocol tokens, R & D integrating DEFI, NFT, meta-universe and chain travel, Gradually apply to land more ecology, Such as NFTs (including games, art, collectibles, IP derivatives, etc.), NFT markets, Feilian cloud Metaverse world, DEFI financial products, virtual social networking, identity authentication, parallel civilization creation, etc., Work with all the participants to build a new future of the meta-universe.

The address of the Feilian cloud NFT:https://nftfeilian.com/

Feilian cloud official website address:https://feilianyun.cn/

DATACBc open source address of the core algorithm:
https://github.com/chenhaoxiang/datacbc/

Value pursuit

Feilian cloud Metaverse is building a community-owned NFT platform with breakthrough technology and new economic models, and this is an opportunity to change the industry forever. Feilian cloud Metaverse also presents a range of complex challenges that have never been previously addressed. To help guide Feilian cloud Metaverse in planning this new NFT area, Feilian cloud Metaverse's work and the community itself have made five key commitments.

Community economics

Today's applications build on economic models that for many people

in the industry will not be sustainable in the future. Feilian cloud Metaverse is committed to rewriting rules and building a whole new type of economic platform, with community ownership, participation and growth as the beginning, and ends. By rewarding the developers, players, and publishers who contribute to online health, a new era of a community-centric economy will emerge.

Open and operate

We believe that all community platforms in Feilian cloud Metaverse must be inclusive, independent, and interoperable. That is why we weave cross-chain and cross-platform functionality into the structure of our platform, removing any barriers to entry from community members, and ensuring that our platform will emerge as new protocols, tools, and standards to constantly improve and serve the community.

Progressive decentralization

Centralized platforms will inevitably create a virtual ceiling, and often will eventually capture and limit the growth of opportunities from others in the community through monopolistic behavior. As Feilian cloud Metaverse technology matures and its adoption rates, Feilian cloud Metaverse is committed to the transition from an alliance blockchain to a fully decentralized to blockchain platform that is owned, controlled and nurtured by the entire community. By doing so, players and publishers of all sizes will be able to benefit from the community economy without having to trust centrally managed platforms。

Community governance

The goal of Feilian cloud Metaverse is to create a transparent, intuitive, and sensible governance framework, that ensures that no individual or group can control the Feilian cloud Metaverse platform or network, and that actions in the best interests of the greater community

will be rewarded. Feilian cloud Metaverse is working tirelessly to find the right rules and mechanisms necessary to create such an unprecedented but vital system of governance.

Persistent innovation

We are very concerned about the innovation of the NFT model. This is why we are building a use NFT full scene value circulation platform, we believe that the platform will always change in a positive way to NFT industry —— to provide users with a more secure, convenient, low fee trading platform, provide developers with better business model, provide players with new NFT design, and let everyone benefit from the community economy. Therefore, we are committed to the long-term investment in the appropriate technology and infrastructure needed to build the platform and the community, rather than seeking any form of short-term economic benefits.

Solution

In order to realize the ultimate freedom of digital assets, build a truly decentralized NFT digital financial service ecosystem, and make the blockchain technology and digital asset applications popularized in a wider range, Feilian cloud Metaverse is based on the research of the existing technologies, the characteristics of blockchain decentralization and its application scenarios:

Multi-asset exchange

Feilian cloud Metaverse can connect to the existing major digital token network and complete asset exchange without changing the original chain mechanism. The newly generated digital token network can also be connected to the Feilian cloud Metaverse at a very low cost.

Provides privacy protection for transactions

At Feilian cloud Metaverse, both parties can choose a

privacy-protected transaction (through the open algorithm of flying chain cloud blockchain, self-signed transactions); can provide anonymity protection for digital asset holders.

Have the ductility of the scene

Feilian cloud Metaverse can become a distributed platform for the exchange of various digital certificates; able to conduct deposits and loans for different digital token, able to trade digital assets through digital token; and able to issue and trade new digital financial assets.

NFT Aggregation Trading Solutions

At present, the traditional decentralized trading system has the following pain points: high costs, insecurity, lack of liquidity, fragmented market, high-risk of users, lack of trust and transparency, and inexperienced users.

Feilian cloud Metaverse provides NFT aggregation trading solutions, supported by the world's top communities, equipped with community traffic, providing cross-chain trading interface, integrated into the new NFT ecology, and achieving a global layout!

In addition, the self-developed Feilian cloud MetaverseNFT collection trading agreement can provide a unified decentralized trading bottom layer to global exchanges, save trading from scattered islands, and realize the rapid circulation of information and value and the expansion of trading speed and breadth. The Feilian cloud MetaverseNFT collection transaction agreement is applicable to all accounting systems, and can contain the differences of all accounting systems, create a global unified payment standard, and create a unified NFT transmission protocol. In the Feilian cloud MetaverseNFT collection transaction network, the more and more effective nodes are distributed, the greater the value superposition will be generated.

In addition, the high-value tools provided by Feilian cloud Metaverse

solutions will attract investors from experienced crypto assets, digital assets, and blockchain projects to our platform. Feilian cloud Metaverse's database tools and information products will reduce barriers to potential users and apply new investment funds to the blockchain industry. The potential development groups of the blockchain industry and Feilian cloud Metaverse are the undeveloped users who are interested in blockchain technology, but currently lack investment tools to enter the blockchain economic circle. The high-performance investment tools provided by Feilian cloud Metaverse will encourage more people to enter the NFT market.

Characteristic of project

•Technology exclusivity: the technology is completely own, no need to rely on foreign technology, do complete self-research. Don't worry about technology lockdowns or foreign sanctions.

• Project legitimacy: official certification of blockchain certificate, real blockchain digital collection collection organization, formal blockchain technology service value.

•Strong team: the whole industry chain r & D team, including but not limited to: blockchain team, front-end team, back-end team, Unreal Engine 5 game development team, design team, operation team, cultural editing and communication team, etc .

•Gameplay diversity: Feilian cloud Metaverse offers open and free creation, continuous content generation, and a variety of gameplay. As a virtual space for players to live for a long time, Feilian cloud Metaverse will continue to launch various types of application scenarios and open up third-party interfaces to lower the threshold of creation and form a self-evolution mechanism.

• Immersive experience: The Feilian cloud Metaverse should be an alternative to the real world. Under the general trend of combining virtual and real, the information terminal develops along the two routes of high-frequency interaction and fidelity. The breakthrough of XR devices based on VR and AR will bring qualitative improvement to the immersive experience.

• Enabling entities: Through the infrastructure platform of blockchain technology provided by Feilian cloud Metaverse, the token economy can empower the entities, and the digital assets can lay the foundation for the circulation of the real economy.

• Asset securitization: Feilian cloud Metaverse hopes to empower traditional entities through blockchain + new finance, so that more assets can realize securitization and token development. Forified assets can participate in all Feilian cloud Metaverse purchases, auctions, offset transaction commissions.

• Distributed business applications: Feilian cloud Metaverse believes that to create huge new economic opportunities and new business value for the world real business, only to integrate Feilian cloud Metaverse consensus and openness into low-cost global business applications.

• Individualized economic system: Feilian cloud Metaverse has independent economic attributes, anyone can create, trade, and can "work" and get returns, forming an economic and cultural prosperity similar to the real life or even.

• Detrust: All nodes in the system can be traded without trust. The operation of the database and the whole system is open and transparent, and the nodes cannot deceive each other within the rules and time frame of the system.

• Reliable database: Through the form of distributed database, all the

participating nodes can obtain the complete database copies. Modifications to a database by a single node cannot affect other databases unless more than 51% of nodes across the system modify simultaneously.

•Disruptive innovation two-step consensus method: In order to solve the serious computing power loss caused by PoW, we have introduced the PoET consensus. When the PoET consensus is reached, each node is calculated through PoW. In a limited time, the transaction is the first node to achieve the difficult calculation target, and the whole network node is synchronized.

•Asset liquidity: The Feilian cloud Metaverse chain game ecosystem solves the pain points of high threshold, low liquidity and difficult operation in the current game asset application through virtual reality application and multiple ecological incentive modules, and creates a user-driven and easy to operate synthetic asset protocol and asset certification ecology.

Income model

3D NFT transactions

Feilian cloud Metaverse has created the NFT collection and trading services ecosystem, providing artists, gamers, NFT investors, and collectors with a brand new, dependable business model and platform. Feilian cloud Metaverse NFT Collection Trading is a 3D collection trading platform based on blockchain development, providing NFT creation, trading and circulation infrastructure. Based on the NFT ecological services, in the business level positioning mainstream market for global players, with economic model to create, art, games and collection of NFT creation and appreciation, aims to become enterprises, individuals and AI creators, and all collectors and block chain network between the main portal, and

its all kinds of unique works of art, high value items or collection in a unified platform, can really benefit artists, players, investors and collectors.

Feilian cloud Metaverse future will set up special NFT investor protection fund, including: investment and layout head NFT platform and works, IP brand incubation and value derivative, hatch top head NFT artists, bridge for traditional top artists into NFT, sponsored galleries, organize art exhibition or publishing, set up awards, support art creation and art criticism, and establish related art collection, etc.

For the real world, the biggest advantage of Feilian cloud Metaverse NFT's collection trading sector is to create new value for the physical industry. Help art, collections to obtain better liquidity, from the capital end, to solve the core difficulties of retail funds are difficult to enter the market.

For the chain world, Feilian cloud Metaverse NFT brings a whole new concept category for all digital currency investors. At present, the growth dividend of the NFT industry can be seen to the naked eye. For the future, the best participation posture for all investors is to enter the Feilian cloud Metaverse NFT collection and trading ecology, in order to share the development dividend of the industry.

Feilian cloud Metaverse World Income

Feilian cloud Metaverse world is the content products in the form of NFT, the real life scene in the form of universe virtual mapping new trend, subvert the traditional physical value mode, such as clothing NFT, IP characters NFT, game scene, props NFT, etc., at the same time each NFT corresponding function or story or scene, under the virtual reality, has an immersive experience. Compared with the real world, NFT makes users more interactive and more interesting. metaverse let value broke through the barriers of time and space, NFT let metaverse from pure entertainment

derived valuable investment, in other words, everything is valuable in Feilian cloud Metaverse, any player can get free in Feilian cloud Metaverse and commercial creation on the value of NFT, obtain and use NFT products, this is one of the development trend of the metaverse, is also the Feilian cloud Metaverse want to create the value of the world.

In addition, Feilian cloud Metaverse integrates a variety of creation models, simply distributing the money earned by the project side directly to the participants, forming a distributed business economy, and exploring a way for the next large-scale promotion of the Web3.0 business model. The application form of Feilian cloud Metaverse will change from product-leading user to user-centered open source product form. It takes the community as the core in the profit distribution, and binds the relationship between developers, users and investors through the token economy.

Empower more users to gain revenue

In the Feilian cloud Metaverse world, the Play-to-earn model will become the core, and earning while playing is the biggest selling point of the Feilian cloud Metaverse world. In the meta-universe world, games, creation, trading, dating, not only get pleasure, but also get the corresponding NFT and TOKEN rewards, which can be sold in the blockchain market.

•Earn Feilian cloud Metaverse World token: Feilian cloud Metaverse has an ecological native token Feilian cloud Metaverse. These tokens are used to give the holder the right to govern, buy and sell ecological NFT items, etc. Users earn tokens while participating in the Feilian cloud Metaverse ecosystem, and then exchange the tokens into 3D digital collections through the platform, and then exchange them into fiat currencies through digital collection transactions, or they can be converted into BTC, ETH, USDT, etc., thus bringing the revenue to the real

world.

•Earn Feilian cloud Metaverse NFT assets in the world: NFT includes but is not limited to Feilian cloud Metaverse items, characters, creations, IP derivative products, supplies, etc., because they meet the use in Feilian cloud Metaverse, can also be other pure decorative collection. Players can acquire these NFT assets by participating in the ecosystem, and trade them to other players in need in the secondary market to earn profits.

•The vast majority of Feilian cloud Metaverse revenue no longer belongs to the platform or service vendors, but to good users. By participating in the within-ecosystem economy, users are creating value for other players and developers. In turn, they receive asset rewards in the Feilian cloud Metaverse. These digital assets can be any crypto asset confirmed on the blockchain.

•The Feilian cloud Metaverse is either for the average player. Creators, project teams, or investors, we all have token recovery and reward mechanisms, which are a core model of maintaining Feilian cloud Metaverse circulation, making the community thrive, the tokens grow, and every Feilian cloud Metaverse in your hand will be the best TOKEN.

Feilian cloud Metaverse can also under the support of the underlying system, to the Dapp developers to provide easy-to-use, perfect block chain construction tools, including visual development suite and chain ecological environment, developers do not need to focus on the implementation of block chain technology, can be directly in a graphical way, low threshold, fast and efficient complete objects within the universe, the development of the scene.

In the future, Feilian cloud Metaverse hopes to provide players with a fair, just and open digital asset environment where data is transparent, there are transparent rules, and no background piracy, whale, abuse, and

malicious induced consumption. It hopes that Feilian cloud Metaverse users' assets can be saved, safe and saved to the center. At the same time, Feilian cloud Metaverse hopes to help developers and players achieve better profit consistency through multiple models, carrying the value fission of the digital asset economic model.

Application enabling

What is the Feilian cloud Metaverse world like

The Feilian cloud Metaverse world is a virtual mapping of the real world. In this virtual space, like the real world, there are identity, social interaction, exchange, and circulation.... In the trust created through the code, the Feilian cloud Metaverse world users live and produce with preset rules, and conduct economic activities in an orderly manner.

The Feilian cloud Metaverse world virtualizes the things in the real world. In the Feilian cloud Metaverse world ecology, there are land, buildings, shopping malls, partners, IP, props and other tradable entities, integrating NFT to realize the value circulation of virtual things. In the completely realistic virtual experience, we can feel scientific and technological innovation and build a digital world with more perfect experience.

NFT is to create value

The application of digital collections perfectly fits the ecological development, and digital collections have many prominent changes in the crypto world. The Feilian cloud Metaverse world is by no means a single NFT display. With the support of the metaverse, both the magnificent mountains and rivers in the content can be created, and the story behind each NFT can get the most real experience in the virtual world. In the Feilian cloud Metaverse world, NFT is not just an application, but also

a value mapping. Each NFT is collected and has its own value ownership, cashing in into any other equivalent value in the trading market, including the real currency.

Metaverse immersive experience support

Feilian cloud Metaverse World's metaverse virtual real mirror design will match the technical experience of the world famous Player One (Ready Player One). The virtual world in Player One embodies the essence of the Metaverse, and in Player One, Widwards is like a duck in the virtual world. People in the movie enter the virtual world called "Oasis" through VR (virtual reality) helmets. Just by wearing a helmet, you can enter a parallel virtual world, with its digital identity, but the experience is extremely strong and immersive in development. The core gameplay of the Feilian cloud Metaverse world is that users use the Feilian cloud MetaverseToken as an entry pass, entering the Feilian cloud Metaverse world through the browser in a lightweight way. The Feilian cloud Metaverse world also has the choice of characters, dress up, the choice of game mode, global communication and so on.

To achieve the immersive experience of the Feilian cloud Metaverse world in parallel worlds, we have obtained the potential resource support for the following metasmic applications:

•Interactive technology: using holographic image and VR virtual imaging to realize the iterative update of interactive technology, bringing immersive sensory experience to Feilian cloud Metaverse world users.

•3D technology: 3D is the presentation way developed by the Feilian cloud Metaverse world, for the creation platform of the metaverse, interactive content and social scenarios, and achieve traffic aggregation.

• Artificial intelligence AI: natural language processing,

intelligent voice, machine learning, to provide technical support and convenience optimization for ecological applications.

•NET work: The maturity of communication network technology ensures the propagation speed and operation speed of data.

•Internet of Things: As a guarantee of linking virtual and reality, the orderly management of the meta-universe is an important support for the symbiosis of virtual and real in the Feilian cloud Metaverse world.

In the exploration of the meta-Universe, The Feilian cloud Metaverse world will be the first stage of interaction through mouse and keyboard devices and touch operations to operate the computer and mobile phone; The second stage of human-computer interaction and intelligent experience interaction through gesture interaction, voice interaction and other technologies; The third phase of whole-body tracking and whole-body sensing through virtual reality and augmented reality for a better immersive interactive experience, Let the Feilian cloud Metaverse form a decentralized linkage ecology, Finally, to achieve the DeFi + NFT + metaverse + chain travel perfect fusion, Eventually, to change the world.

Unreal engine5

The next generation of real-time graphics technologies include: Nanite for movie quality models, Lumen for real-time global lighting, Chaos, the physics engine, and Niagara particle systems.

•nanometre

With the release of Nanite technology through Unreal Engine 5 in 2021, the traditional asset creation pipeline has been optimized, and the visual quality has been significantly improved. The Nanite allows for unlimited polygon counting for the selected objects. Without the real-time polygon budget constraints, the Star Atlas's visual fidelity is comparable to the pre-rendered computer-generated images.

•lumen

Lumen will allow for more credible and dynamic environments, as lighting does not require manually placed lighting for false enhancement.

•muddledness

Chaos provides games with an optimized physical template for vandable grids and trusted vehicle gear.

•Ruins of León Viejo

Niagara enhances traditional particle systems by providing artists with fully exposed blueprints, and easily enables the Advanced Coloring Language (HLSL).

Basic gameplay

In the early stage of construction, Feilian cloud Metaverse World, in line with the principle of fast and low threshold, experienced the browser in the form of official website. In the lightweight way. Meanwhile, the powerful Unreal 5 engine, unique underlying technology and innovative gameplay mode enabled users to get the best experience.

•Chain entertainment consumption

Chain entertainment consumption application goal is to establish a unified global game entertainment consumption value-added virtual assets, through block chain distributed general ledger application, both assets and non-financial applications, from selected game and entertainment consumption application scenarios extract several universal communication service mode, respectively through the basic ledger protocol / architecture level and application level of technology of global game industry virtual world assets anchor, and reverse the actual consumption scenario and game entertainment virtual scene hard link, and make this value has higher value-added attributes.

•blind box

In order to make the platform NFT better circulation and have more gameplay attributes, Feilian cloud Metaverse put its breaking point on the NFT blind box. Feilian cloud Metaverse NFT blind box mechanism not only has the platform of the collection outside the chain, community art creation and corresponding ecological rewards, application, output, also corresponding to a series of NFT set, through the synthesis of the same attributes, obtain higher value of NFT products, to obtain the corresponding synthetic NFT, users will continue to trade and exchange NFT market prosperity, synthetic irrevocability, the original NFT recycling model, so as to form a more sustainable market. On the Feilian cloud MetaverseNFT blind box, buyers can get any NFT ownership that they want to have on the platform by buying it, find fresh NFT art, and increase the interest of discovery. The operation mechanism of Feilian cloud Metaverse is governed by the token holders of the platform. This also refers to current common practice in current GAMEFi projects. In other words, Feilian cloud Metaverse is a decentralized market, and over time, it is ultimately decided by its token holders.

•Meta-cosmic social

Interaction is the most important element of social interaction, and if the interaction experience is not good, it will certainly not attract

more people to use it. Through 3D and virtual implementation, Feilian cloud Metaverse provides users with another tool to express themselves, combining the real world with the virtual world, and allowing everyone to see different people of themselves and friends. This breaks through the text and traditional social way, with a new custom means to give users a better social experience.

Users can freely communicate face to face in the Feilian cloud Metaverse world as in the real world, but also have remote orientation and matching communication mode. In order to avoid immersive interference to users, we have opened a separate remote social mode, so that users can more meet their needs to get social experience. When the user turns on the social mode, he can specify friends or detect all people in the surrounding social mode (to meet all the conditions of the matching mode before being turned on), and realize a screenable social interaction within the scope and user information. In the scope of social experience, there is also a team mode. In a team to complete tasks together, they will enjoy the token bonus reward, and the final reward is divided according to each user's contribution, the greater the benefit, and deepen the greater social fun and motivation of users. In the matching process, users can choose to accept or refuse, or they can also form their own team to complete tasks at a fixed time every day. Joint participation can increase their affinity. Therefore, the higher the affinity, the token bonus will increase.

Not only that, Feilian cloud Metaverse world also launched the personal virtual space, users can decorate virtual space, put all kinds of digital collection, even the personal space into an arena or a store, can also open build exclusive famous announcement property, let everyone can visit, play, even virtual events, and global users to social, at home can experience interaction with users from all over the world, pure fun.

•Cast-on outwell NFT

The creator links the wallet to obtain his own identity authentication, and opens the content container under his own identity in the platform, and obtains the permission of the container for long hours, or even the affiliated functions of the container through recharge. By creating any content work, uploading it to the Feilian cloud Metaverse. When the Feilian cloud Metaverse system review is completed, the third-party scene owner can continuously obtain the user revenue.

•DEFI finance

Players will be able to participate in the platform's financial ecosystem applications through a unique game interface. Players will use the defi tool (i. e., the smart contract) at the entire financial center in the game. DAO cities may be the sites of these financial centers, allowing creators to establish their own facility transaction fees.

Example of the activity is as follows:

Lending borrows various NFT value assets to earn profits

ADM automates market-making of various asset pairs to earn transaction fees

Invest into the platform fund to obtain the corresponding income

Mining to pledge tokens or liquidity to dig TOKEN and ecological value products

•DAO

DAO organizations give players access to peacekeeping projects and promoting projects in the virtual game world, and users gain governance by pledToken, or make meaningful suggestions about the project and make significant contributions to the project drive. Token will be awarded for reviewing the content and promoting the project development.

•Chain game

Feilian cloud Metaverse community will develop all kinds of gameplay games to DAPP. The birth of each game scene makes you gain the economic value of Token during entertainment and leisure, the competition rules in the game highlight the social attributes, and the fresh game scenes make you more eager to try to promote the ecological prosperity of Feilian cloud Metaverse community.

•Business empowerment

Feilian cloud Metaverse is the world's first meta-universe commercial

complex concept that fully integrates the real world and the virtual world. It will focus on "meta-universe digitization" and strive to provide consumers with more diversified commercial space and leisure consumption experience through continuous innovative business and operation. The Feilian cloud Metaverse metauniverse can also easily build the "trinity" model of creators, brand owners and fans. Many well-known brands have begun to accelerate the exploration of metaUniverse business use cases. In this new business model, brand freedom becomes higher and easier to realize. Merchants can break the traditional restrictions such as region and market, shorten the distance between brand owners and users, and provide consumers with better virtual experience.

• equipment

The smart metaUniverse era will be led by Feilian cloud Metaverse devices. The digital economy has basically reached the limit of spatial display, and the 2D interaction mode is also difficult to highlight the advantages of 5G network with large bandwidth, high reliability, and low latency. In contrast, Feilian cloud Metaverse devices have a wide range of display areas and an immersive 3D experience, making them the best choice for 5G content. The content transmission of Feilian cloud Metaverse has exclusive interfaces and system programs at the beginning of the construction, and Feilian cloud Metaverse devices are undoubtedly tailored, which will be our biggest advantage different from general-purpose VR devices, enabling users to get a more immersive experience.

Application scenarios

Digital copyright field:

Block chain of distributed books and timestamp technology can make cut network to intellectual property ownership quickly consensus possible, theoretically can be realized in time, and realize the protection of

digital copyright, and through the smart contract, and can automatically execute the copyright transaction process, the copyright transaction link transparent at the same time, also can help creators to get the most income.

financial field:

The trust mechanism provided by blockchain enables all kinds of financial assets, such as equity, bonds, bills, warehouse receipts, and fund shares, to be integrated into the blockchain ledger as digital assets on the chain, so as to store, transfer, and trade on the blockchain. Deintermediation of blockchain technology can reduce transaction costs and make financial transactions more convenient, intuitive and secure.

In The Internet of Things and Logistics sector:

Through the upstream and downstream of the supply chain and multiple upper chain of bookkeeping, the cost of fraud increased significantly, and the rights and interests of consumers were protected. At the same time, the use of blockchain technology to achieve product traceability can also optimize logistics management links and improve logistics efficiency.

Public services (healthcare, education, etc.):

It can not only ensure the safe storage and reliable sharing of medical data, but also meet the needs of automatic settlement and drug traceability, which not only reduces the cost but also solves the trust problem.

Education records are more credible, education ecology is more open, lifelong learning is continuously recorded, education digital resources are better copyright protected, education governance is more secure and interconnected, education evaluation is more accurate, education decisions are more fair, and teacher development is more professional

Insurance field:

It can solve the business pain points caused by "trust problems" among

insurance participants, so it will be more widely used in the insurance industry, and then derive a new insurance model based on blockchain technology.

Public welfare field:

Certificates, memorials, certification, incentives, etc.

Open construction

Feilian cloud Metaverse will provide full support to help them better develop works and Dapp in the Feilian cloud Metaverse metaUniverse. These supports include blockchain browsers, account wallets, Feilian cloud Metaverse network suites, and much more.

Feilian cloud Metaverse will not limit the future development direction, but will develop in the direction of community governance, so will let more players and developers involved in the process of the universe ecological production, not only players can participate in the universe ecological design and production, Feilian cloud Metaverse will also platform of monthly services and resources API, better integration with Feilian cloud Metaverse universe engine. At the same time, Feilian cloud Metaverse provides developers with integrated metacverse application development tools and SDK.

Making developers important players and metacom builders in the Feilian cloud Metaverse community, and the open access to the assets that Feilian cloud Metaverse provides, has the potential to bring progress and change to the work production and distribution process.

Project technical system

Business resources and governance model basis

Adhering to the concept of deeply applying the concept of the metaverse to the content works, Feilian cloud Metaverse is opening up a new era of value Internet with the support of the core ecology such as the metaverse concept and the token evolution incentive. Thanks to the advantages of sustainable development and innovative technology, wide business application and fine governance, Feilian cloud Metaverse is landing in business logic and is competitive in the following aspects:

•Technology: Feilian cloud Metaverse is equipped with very mature and strong technical support. It has accumulated rich industry and technology experience in game opening, blockchain, 3D digital collection, artificial intelligence, NFT, metaverse, VR / AR and other fields, and has made industry-leading breakthroughs in the development and application of the underlying technology of blockchain. The Feilian cloud Metaverse team is a perfect collection of veterans with multiple industries, years of practical operation experience, and insights into industry development.

•Industry resources: Feilian cloud Metaverse will sign a strategic cooperation agreement with the top leading enterprises in the target industry, which will provide strong support for Feilian cloud Metaverse to enter the target industry, so as to truly promote the actual implementation of 3D digital collection + Feilian cloud Metaverse application.

•Business governance: Unlike general construction projects, Feilian cloud Metaverse has a clear and clear strategic plan for the target industries, and continues to empower a free, fair and high-value ecological prosperity with the model of autonomous community. Feilian

cloud Metaverse is more focused and specialized on the distributed decentralization, imtamable and encryption security and peer-to-peer transmission value of blockchain technology to penetrate target industries and quickly gain market share. In the commercial arrangement of the Feilian cloud Metaverse project, the Feilian cloud Metaverse serves as an upgraded application of the 3D digital collection market to deepen the development and governance of the whole 3D digital collection world and the community. That is, holding Feilian cloud Metaverse tokens can have the right to govern the ecological development of the whole project, and have the vote for the future development of 3D digital collection.

•Fund management: The Feilian cloud Metaverse fund management will be led by the community DAO and the Feilian cloud Metaverse team, and will strictly abide by the principles of fairness, justice and openness, and with the development of Feilian cloud Metaverse as the primary goal. An investor Protection Foundation will be established for special storage and maintenance to ensure the safety and sustainability of the funds. All the use of the funds will be regularly disclosed to all investors to ensure the openness of the use of the funds.

•Development space: Feilian cloud Metaverse's target industry is a trillion-level meta-universe and content creation market. The development team ensures sustainability by developing a sound governance architecture that effectively manages the affairs of general deliberations, code management, financial management, compensation management and privilege scope of operations.

Project security guarantee

Project ecological security guarantee

Users who participate in Feilian cloud Metaverse, will also enjoy the

full guarantee we provide:

• Asset trading: Feilian cloud Metaverse has a secure and free de-center trading system composed of multiple high-performance nodes. Exchange nodes can be expanded and adjusted at any time to provide users with all-weather, instant secure and stable free matching trading or targeted trading monthly services. Cross-regional acceptance gateway groups provide currency exchange and consumption services for the assets circulating within the exchange. In addition to providing Feilian cloud Metaverse users with automatic acceptance system building services, Feilian cloud Metaverse also accepts them as transaction node service providers to jointly maintain the transaction network.

•Democratic environment: all the data on Feilian cloud Metaverse, including digital collection, audio, video and other NFT, and props reward probability, random event parameters, user information, etc., have inherited the characteristics of the block chain system, in addition thanks to the underlying framework of efficient processing ability, perfectly solved most of the platform trading low efficiency, oligopoly unfair problems. At the same time, the Feilian cloud Metaverse ecosystem will open more than 90% of the source code of the core system on Github. com, the world's largest third-party open source site. Global users can jointly witness the open, transparent, safe and reliable attitude of the Feilian cloud Metaverse system.

•Digital assets access: Feilian cloud Metaverse will establish a new assets circulation huai into the mechanism, for the market has been in circulation and put forward in the Feilian cloud Metaverse circulation request assets assessment, user evaluation and sampling user vote, to decide whether to access the new assets, all new assets access will be to ensure the security of user assets as the premise.

•Multiple incentive systems: Feilian cloud Metaverse will build a

premium incentive ecosystem, with activity and contribution as a measure of how many users can benefit. At the same time, through the generation, circulation and value fission of tokens to maximize user revenue value. All business behavior on Feilian cloud Metaverse need to use the basic Token drive, the Token in the form of fees by system recovery and precipitation to the pool to reward contribution to the whole system and network and active users, get Token way including but not limited to: participate in reading, trading Feilian cloud Metaverse assets, provide network node verification support, actively participate in operating community, etc.

•System security: redundant nodes combined with connection quality detection / link selection program make Feilian cloud Metaverse enough high performance, security and robust to effectively resist access pressure, theft risk and node failure. At the same time, nodes are deployed in multiple countries and regions, and third-party node operators are accepted to provide safe, robust and uninterrupted 3D NFT services.

Asset security

The Feilian cloud Metaverse has player community autonomy and asset security assurance. Due to the open and transparent nature of the blockchain network, the digital asset information obtained by players in the Feilian cloud Metaverse can be browsed through the blockchain, and provides a guarantee mechanism for the asset security:

-Asset operation authority: the NFT ownership and disposal rights in the Feilian cloud Metaverse only belong to the creator, and the destruction of items can only be handled by the user himself;

-Atomization of key operations in the chain: important behaviors such as asset circulation and asset creation are submitted to the circulation platform, and all operations in the circulation or production process are regarded as an inseparable atomic transaction;

-Extensible multi-step verification: In addition to the blockchain transaction authentication and password verification, Feilian cloud Metaverse will provide further secondary password verification and random code verification, etc., to further improve the security of player assets;

-The guarantee of modern cryptography: The Feilian cloud Metaverse system uses the common modern cryptography technology, CC (elliptical encryption algorithm), for encryption, to ensure the security of blockchain information;

-Transaction verification mechanism to prevent BP / developer from cheating: Feilian cloud Metaverse has designed a set of transaction execution, messaging, and operation mechanisms for BP and developers' possible cheating links to prevent BP / developers from cheating;

- 可 Iteratively updated smart contract system: Feilian cloud Metaverse can provide the logical update and vulnerability repair of smart contracts on the chain, so as to ensure the security and timeliness of smart contracts.

In the future, Feilian cloud Metaverse hopes to establish a virtual reality ecology of the Internet of everything through the application of the metauniverse concept in the scene of content works, connect the current separated blockchain with real business models and content works, transfer value between each blockchain, and establish a connection between virtual and reality. We are not limited to meet the homogeneous block chain parallel expansion of credible data exchange demand, also further explore the heterogeneous block chain between the underlying architecture, data structure, interface protocol, security mechanism and other multidimensional heterogeneity lead to commercial connectivity solutions, adhering to the participation, resource sharing, contract collaboration and value sharing concept of building the whole industry chain of business ecosystem.

The underlying technical architecture

Platform architecture

The Feilian cloud Metaverse platform uses the most advanced blockchain technology architecture of today. It mainly includes the following levels:

Data layer: it is a data structure of a block + chain table, which is essentially a distributed blockchain.

Network layer: P2P network.

Consensus layer: to develop the mechanism for blockchain to obtain money. The platform uses a POW (Proof of Work Certificate of Workload Mechanism)

Contract layer: in the past, the blockchain does not have this layer. So the original blockchain can only be traded, but not used in other areas or other logical processing. But the advent of the contract layer makes the use of blockchain realistic in other areas, such as for IOT. This part of Ethereum includes both smart chain and smart contract.

Application layer: the display layer of the blockchain. If Ethereum uses truffle and web3-js. Blockchain application layer can be mobile, web, or integrated into the existing server, taking the current business server as the application layer.

At the top of the platform is the application layer, which switches through the Web3.js and smart contract layers. All smart contracts run on EVM (virtual machines) and use calls to the RPC. Below EVM and RPC are the three core functions of the platform, including: blockChain, consensus algorithm, and network layer. All other parts except the application layer are in the client of the platform.

Distributed frame

Feilian cloud Metaverse adopts a distributed structure, with multiple pathways between the nodes in the network. The distributed structure has no fixed form of connection. There is more than one channel from the sending point to the receiving point. During the communication, the network selects the actual communication path according to the dynamic situation of each node. The control function of the communication is scattered over each node. It is one of the most complex structures. Its communication control is also the most complex, and the management of data resources scattered across the nodes is also very complex. Because there are multiple paths, when some nodes and links fail, it is still possible to ensure communication, so there is a high reliability.

Distributed accounting: Using distributed bookkeeping can ensure the

security and authenticity of account information. In a blockchain network, information about recording historical transactions is passed to each node that can own and store a complete, consistent transaction general ledger record. Even if the individual node account is attacked and the data is tampered with, it will not affect the security of the general ledger of the whole network.

Distributed communication: The nodes of the whole network are connected through the underlying network protocol point-to-point way, without a single centralized server. Messages are sent directly to all other nodes in the whole network through the P2P network layer protocol.

Distributed storage: After distributed transmission, all data is stored in the computer of each node, and can be updated in real time. It is equivalent to sharing the ledger and other data with all the network nodes in real time. Realize the decentralization, effectively avoid the data tampering caused by a single node attack. Greatly improves the security of the database.

Through the distributed structure, the decentralization is achieved, using the P2P network model. No longer requiring a central server, each connected computer is an individual, connected to thousands of other computers by protocol, and eventually the global computer connection becomes a dense network, and the information sent from a certain node can eventually spread to all the nodes around the world. The advantage of this structure is that even if some of the nodes fail, they do not affect the communication of the entire network.

Data structure

Blockchain is a data structure that is orderly linked from back to forward by blocks containing transaction information. It is stored as a flat file or simply in a database. Each block points to the previous block. The data structure is divided into three parts: the block header, the transaction list, and the parent block.

For each block header, SHA256 encryption hashes to generate a hash value, by which, the corresponding blocks in the blockchain are identified. At the same time, each block can reference the previous block through the parent block hash value field. With this design, each block can be linked to its own parent block, creating a chain that can be traced back to the first block creation block.

Each block can only have one parent block and can have multiple subblocks. When the identity of the parent block changes, the identity of the child block also changes. Subblock identity changes, and so does Sun block identity, and so on. When a block has many future generations, the block will not change again.

However, because Pow has explicit defects such as slow transaction speed, the consensus mechanism of the subsequent data chain in the

platform is designed as modular, which can be configured by controlling the chain parameters, and can dynamically apply different application scenarios of public chain and private chain. According to the application scenarios and transaction conditions of the data chain itself, the project chooses the appropriate consensus mechanism to ensure the data consistency of each distributed node through the algorithm. Composition of the three sets of block metadata. The first group is the data citing the parent block hash value; the second group is the metadata, namely the difficulty, timestamp, and Nonce; and the third group is the Merkle root of the metadata.

The list of transactions is represented by a Merkle tree and contains all the transactions that generated the block. The Merkle tree is a hash binary tree that is constructed from the bottom-up. The Merkle tree is used to summarize all transactions in a block, providing a way to verify whether a transaction exists in a block. Generating a complete Merkle tree requires recursively hashing the hash node recursively and inserting the newly generated hash node into the Merkle tree until only one hash node remains, which is the root of the tree.

Consensus mechanism

If consensus is the foundation of blockchain, then the consensus mechanism is the soul of blockchain. Consensus mechanism is an algorithm for reaching a consensus on the order of things over a period of time. On the block chain, everyone will have a record of all transactions on the chain books, chain produces a new transaction, everyone received the information time is not the same, some people want to do bad things may release some wrong information at this time, then need a person to receive all the information for verification, finally published the most correct information.

There are three relatively popular consensus mechanisms:

(1) The proof of work mechanism (Proof of Work-PoW) is the best-known consensus mechanism. As explained literally, PoW is that the more you work, the more the benefits. The job here is to guess the number, who can guess the only number the fastest, who can do the information publicity person.

(2) The Equity certificate mechanism (Proof of Stake-PoS) is also a consensus certificate, which is similar to the equity certificate and voting system, so it is also called the "equity certificate algorithm". The final information is published by the most (token).

(3) The Byzantine consensus algorithm (Practical Byzantine Fault Tolerance-PBFT) is also a common consensus proof. It is different from the previous two, and the PBFT is calculation-based and without a token reward. The right to obtain the public information when less than (N-1) / 3 nodes object.

PoW + PoET as consensus mechanism:

PoW is a proof of work, with its advantages: simple algorithm and easy to implement; consensus is reached without exchanging additional information between nodes; and great cost to destroy the system.

However, due to the Pow has explicit defects such as slow transaction speed, the consensus mechanism of the subsequent data chain in the platform is designed as modular, which can be configured by controlling the chain parameters, and can dynamically apply different application scenarios of public chain and private chain. According to the application scenarios and transaction conditions of the data chain itself, the project chooses the appropriate consensus mechanism to ensure the data consistency of each distributed node through the algorithm.

PoET (Proof of Elapsed Time) has the advantage of the low cost of participation. More people can easily join in, and then achieve decentralization. For all participants, it was easier to verify that the leaders were legally elected. The cost of controlling the election process of leaders is directly proportional to the value gained from it.

Explanation: The PoET consensus mechanism algorithm is usually used to license blockchain networks, which can determine the mining rights of blockchain in the network. Licensing the blockchain network requires any expected participant to verify the identity before joining. According to the principle of the fair lottery system, each node has an equal potential to be the winner. The PoET mechanism gives a large number of possible network players an equal chance of winning.

The PoET mechanism works is as follows: each participating node in the network must wait for a randomly selected period, and the first node to complete the set waiting time will receive a new block. Each node in the blockchain network generates a random waiting time and hibernates for a set time. The first node to wake up, the node with the shortest waiting time, wakes up and submits a new block to the blockchain, and then broadcasts the necessary information to the entire peer network. The same process will be repeated to discover the next block.

In the PoET network consensus mechanism, two important factors need to be ensured. First, the participation node will naturally chooses a random time, rather than a participant deliberately choosing a short time to win. Second, the winner did complete the waiting time.

The PoET concept was introduced in early 2016 by Intel, a leading chipmaker. Intel implements a usable high-tech tool designed to solve the computational problem of "random leader election".

This intrinsic mechanism, which allows the application of executing trusted code in a protected environment, ensures that the two requirements presented above are met, namely the random selection of waiting time for all participating nodes, and that the winning participant actually completes the waiting time.

This mechanism for running trusted code in a secure environment also

considers the needs of some other networks. It ensures that the trusted code does run in a secure environment and cannot be changed by other external participants. It also ensures that the results can be validated by external participants and entities, which in turn increases the transparency of the network consensus.

PoET achieves the consensus process by controlling the cost, which is still proportional to the value gained from the process. This is a key need to ensure sustained prosperity in the cryptocurrency economy.

Transaction consensus: blockchain requires nodes to agree on the execution results of the block before the block. Fly chain block chain generally adopt PBFT algorithm to ensure the consistency of the whole system, its general process is: each node independently perform the same block, then exchange between nodes their execution results, if found more than 51% of the nodes have the same execution results, that the block on most of the nodes, nodes will be out of the block.

Transaction success: After the consensus block is sent out, the node will write the transactions and execution results in the block to the hard disk permanently saved, and update the block height to the block hash mapping table and other content. Then the node will delete the successful transactions from the transaction pool to start a new round of block exit process. Users can query their own sense of transaction data, receipt information and block information on the chain through the transaction hash, block hash and other information.

Security encryption algorithm

This project adopts the asymmetric encryption technology. Asymmetrical encryption has two keys: public key and private key, public key is public, private key is private, public key encryption can be untied with private key, private key encrypted things can be solved with public key, that is, encrypted and decrypted key is different. This can greatly facilitate the key key management.

The project uses the RSA algorithm for asymmetric encryption, the first RSA algorithm that can be used for both encryption and digital signature. SA is the most widely studied public key algorithm. In the more than 30 years, it has experienced all kinds of attacks and gradually been accepted by people. By 2017, it is generally regarded as one of the best public key schemes.

The encryption procedure of RSA can be expressed using a general formula. Phphertext = plaintext EmodN Phphertext = plaintext EmodN. That is to say, RSA encryption is a process of finding the remainder after dividing the E power of plain text. Public Key = (E, N) Public Key = (E, N)

The decryption of the RSA can also be expressed using a general formula. Clear text = ciphertext DmodN. That is to say, the remainder of the

ciphertext is the plain text, which is the RSA decryption process. Knowing that D and N can decrypt the ciphertext, so the combination of D and N is the private key. Private Key = (D, N) Private Key = (D, N).

Combining SHA256: an encryption algorithm for finding the hash (Hash) value. One of the SHA-2 algorithms, developed by the NSA. Supercomputers are't to either. At present, the widely used SSL digital certificate, code signature certificate signature algorithm and Bitcoin signature algorithm all adopt the SHA-256 algorithm.

Elliptic curve algorithm: elliptic curve algorithm ECC to do the basic asymmetric encryption algorithm. ECC's 210-bit algorithm is as difficult as RSA 2048, and performance is order of magnitude. Here involves some professional mathematical knowledge points, elliptic algorithm ECC is actually taking advantage of multiplication is easy, and division is difficult to design a multiplication: K = k * G, where big K is the public key, small k is the private key, G is the generation point. It is easy to derive the public key from the private key, by adding just k G's. But it is hard to derive the private key from the public key, that is, the public key K divided by G.

Digital signature

Digital signingDigital signature, also known as public key digital signature, is a method of identifying digital information through techniques in the field of public key encryption. With digital signature technology, the message sender can send a number string that others cannot forge, or prove the authenticity of the sent message.

A digital signature involves a hash function, the sender's public key, and the sender's private key. Digital signatures have two functions. One is to determine that the message is indeed concurrent by the sender's signature. Second, the digital signature can determine the integrity of the message.

The Feilian cloud Metaverse uses the ECDSA elliptic curve digital signature algorithm. ECDSA is used for digital signature, which is the combination of ECC and DSA. The whole signature process is similar to DSA. Different is that the algorithm adopted in the signature is ECC, and the last signed value is also divided into r, s. The signature algorithm used by Bitcoin.

Data storage

In Feilian cloud Metaverse, there will be a large number of DeFi, NFT, metacoverse, chain travel application scenarios for storage, such as content creation, pledge lending, social, high-value items NFT traceability, digital asset transactions, etc. Therefore, considering

the purpose of large-scale storage and commercial use, our base TIPFS / Storj / Cloud Service three storage media, proposed a hybrid data storage solution, aiming to provide a faster, more secure and reliable storage system for the underlying traceability chain.

•The IPFS IPFS is a point-to-point network hypermedia protocol, with the full name of the Interplanetary File System Interstellar Files System, which aims to become a faster, safer, and more open next-generation Internet. IPFS is a content-addressable peer-to-peer hypermedia distribution protocol, where each node in an IPFS network forms a distributed file system, making the network faster, safer, more secure, and more open. Since IPFS is based on content addressing, rather than a file name, using content addressing instead of traditional IP and domain name-based addressing, users do not need to care about the location of the server, while not thinking about the name and path of the file store. At the same time, IPFS calculates the unique encrypted Hash value based on its content, which directly reflects the content of the file. When the IPFS receives a file Hash request, it uses the DHT algorithm to find the node of the file, retrieve the file, and verify the number file data. In Feilian cloud Metaverse, we use IPFS as one of the underlying data storage infrastructure, and perfectly combine with the blockchain. The virtual machine can read the on-chain information on the IPFS, and store the executed results in the IPFS network. At the same time, IPFS, as a public network, can also be seamlessly combined with BaaS and enterprise-level management cloud platform to support richer big data analysis scenarios.

•Storj Storj is intended to be a cloud storage platform against censorship, surveillance, or non-shutdown. It is one of the first decentralized, end-to-end and miyun storage platforms. The Storj is composed of a whole bunch of interlocks that work together to create a unified system. Because people interact with different parts of the system, they all have different understandings of Storj. Home users can share storage without any knowledge about the Bridge or the protocol, while developers can use StorjAPI without any knowledge of any home users. Therefore, in Feilian cloud Metaverse, Storj is also used as one of the underlying data storage protocols.

•Cloud Service At present, with the development of cloud computing, cloud storage is more and more favored and supported by many blockchain manufacturers. On the one hand, cloud storage can provide massive, secure and low-cost cloud storage services, providing 99.99999999999% data reliability. On the other hand, cloud storage generally uses RESTful API, which can be stored and accessed anywhere on the Internet, the capacity and processing capacity of the elastic expansion, and a variety of storage types for the comprehensive optimization of storage costs.

Smart contract

Smart contracts are digital contracts based on cryptography. It is a computer program, rather than a traditional paper contract. Smart contracts are a program that automates the processing of traditional contracts in the form of computer instructions. Simply put, a smart contract is a code that triggers execution when trading on a blockchain asset. This code is a smart contract.

Smart contracts have the following advantages:

(1) The contract is written into the blockchain in a digital form. Due to the characteristics of the blockchain, the data cannot be deleted or modified, but can only be added. The whole process can be transparent and tracked, ensuring the traceability of the history;

(2) The behavior will be permanently recorded, which can greatly avoid the interference of malicious behavior to the normal execution of the contract;

(3) Decentralization avoids the influence of centralized factors and improves the advantages of smart contracts in cost efficiency;

(4) When the contract content is satisfied, the code of the smart contract will be automatically activated, which not only avoids the manual process, but also ensures that the issuer cannot default;

(5) A state machine system is built from the consensus algorithm of the blockchain, so that smart contracts can operate efficiently.

The Feilian cloud Metaverse supports smart contracts in languages like C + +, over which multiple traceability applications are built, including token allocation, the conduct of token or NFT transactions, the casting of content, and community rewards.

Feilian cloud Metaverse Token contracts have been opened and generated, the distribution of tokens and tax mechanisms for tokens are open source, and we welcome oversight and advice from community members.

As far as the work casting is concerned, the key information of the work will be in the chain, and its circulation and quality will be under the supervision of each node. The relevant participants of the blockchain record all the information on the public chain, and all the nodes are confirmed through the consensus mechanism, and they are rewarded by the digital currency. This is also based on the two very important characteristics of the blockchain: first, after the transaction recorded on each block is recorded after the formation of the last block, the value exchange activities occurred before the block is created, which ensures the integrity of the database; second, once the new block is quickly completed to the end of the blockchain, the data record of this block can no longer be changed and deleted, ensuring the rigor and authenticity of the data.

Every piece of data on the blockchain can be traced back to the source

through the structure of the blockchain and verified one by one, forming a non-tamper with and forged database. For the problem of data on-chain accuracy, at this stage mainly depends on offline verification. However, due to the particularity of the works, the whole process chain from output to transaction can be realized for the new works.

For the issue of usufruct and ownership, we will design a unique derivative mechanism, that is, on the platform will only let the collection of usufruct, and will not transfer its ownership. Thus, the transaction is split and achievable at the executable level. Users can initiate NFT mining, auction and transaction on the Feilian cloud Metaverse platform, while the platform shares its products and sells the proceeds to return to users to ensure the value of the products.

Project distribution plan

The Genesis Partnership Program

We sincerely invite founding partners (Electronic signing is required, invite at least 1,000 people to register). The founding partner can apply first when the quota is not full, and the invited users during the application period can still get rebates), only 1000 places worldwide (if the 1000 quota is full, it is ranked by the number of people invited to register and the number of people invited to spend. Partners that are exceeded by newly applied institutions will be downgraded to general partners. If a partner violates the Partner Treaty, it will not be allowed to become a member of the Partner Program), including 100 are overseas partners. Users with channels and capabilities can contact us, and more benefits from the founding partners are waiting for you. One of the founding partner permanent benefits: Invite the user to register and consume, you can permanently get 20% of the consumption rebate.

Support for user registration before binding. Cannot change after binding. If the user registers first, only 8% of the user rebate can be obtained after binding the founding partner organization.

Binding to ordinary partners, the active invitation user to register the fixed rebate is 10%, and the bound rebate is 5%.

Positioning layout

Feilian cloud Metaverse proposes a clear positioning of creating a global blockchain 3D digital collection benchmark platform, including offline value mapping, community autonomy, smart contract, cluster ecology, and landing and application.

The Feilian cloud Metaverse will be a global meta-cosmic form, with unlimited numbers of people involved simultaneously. It will also have a complete economic system operating uninterrupted, and can cross both the real and digital worlds. At the same time, any image, content, wealth, etc. based on data and information can be circulated in the community. Many people and many companies will create content, stores and experiences to promote it to become more prosperous.

Run the planning

The Birth of the Feilian cloud Metaverse:

Feilian cloud has a complete Feilian cloud universe background world view (the editor culture department is responsible for the improvement of Feilian cloud universe culture, the team carries top designers and artists for the story output), each 3DNFT has the story behind it, want to know more stories, you can continue to pay attention to our official public account: Feilian cloud3D digital metauniverse

Each Feilian cloud NFT is a 3D metaverse model, ensuring future interaction in metaverse games. The 3D models sold by future metaverse games will not be uplinked, and we promise to sell for no less than twice the current price.

Design and develop every story of Feilian cloud Metaverse, and the relevant backgrounds

The Feilian cloud Universe was published:

Volume 1: The first year of Feilian cloud-Wang Gang's family, Wang Gang's war story and the origin of the Feilian cloud calendar.

Book 2: Feilian cloud Past-Feilian cloud Star FN1 was detected three thousand years ago.

In 22813, Wang Fei successfully broke through the Feilian cloud

universe through the Feilian cloud Star project, and shuttled to the real Galactic universe.

We will strictly limit the number of upper chains per 3DNFT, and also limit the circulation of future metaverse games after their release. After the future release of metaverse games, we will limit no new circulation than the original chain.

Exclusive digital certificate: After each NFT chain, a unique blockchain certificate will be generated on the Feilian cloud Alliance blockchain. The certificate has an e-certificate to view.

The certificate number and blockchain number of the future Feilian cloud Alliance blockchain, and the 3DNFT is on the chain, can be officially certified in the Feilian cloud's future metaverse games.

New "Research and development of the white Paper" on possible future changes

Reward distribution, expand the user base, bring a virtuous cycle

The Feilian cloud Metaverse goes beyond:

Expand production, new expand external communication team, specializing in cooperation with world famous IP, global famous game companies

Continue to improve the world copy of Feilian cloud Universe, improve the universe background, and output three volumes of Feilian cloud Universe story book.

Excluding the basic expenses, all the funds will be used for the development of blockchain and unreal engine 5 yuan universe to ensure the feasible implementation of the yuan universe in the future

Conduct long-term strategic cooperation with large institutions and large capital, learn from each other's strengths, and enter the later stage more smoothly.

The legend of the Feilian cloud Metaverse:

Each Feilian cloud3DNFT player account of Feilian cloud3DNFT can be logged in in the Feilian cloud account system.

Feilian cloud's metauniverse-based game of Virtual Engine 5 will introduce a certified 3DNFT in the Feilian cloud Alliance blockchain

Each user can log in to the Feilian cloud universe game released by Feilian cloud, and players can log in, create accounts, interact, race, and so on.

For users who buy a certain number of 3DNFT in the early stage, we will give away a free private space in the Feilian cloud Metaverse ecology for users to build the original 3DNFT pavilion

Perfect Feilian cloud Metaverse, build a yuan-universe market trade planet

MetUniverse Community User Implementation Plan.

For many other and more updates, please stay tuned for the next white paper update.

Disclaimer

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This document is not constituted or understood as providing any sale, nor is it any formal contract or commitment.

Relevant intended users should clearly understand the risks of the project. Once the investors participate in the investment, they will understand and accept the risks of the project, and are willing to bear all the corresponding results or consequences personally.

The Operation Team is not liable for any direct or indirect losses involved in and resulting from the Project.

The future outlook described in this document does not mean that it has been implemented in the existing products right now, but we will fight for it, we will move towards it, and we will layout it for it.

The white paper document update is slow, and the actual effect of the above line products shall prevail.

Feilian cloud

Metaverse·3DNFT

NFT+Metaverse+GameFi

white paper1.0