

Technology used in Crypto Kitties

A Crypto-Kitties' ownership is tracked via a smart contract on the Ethereum blockchain. Crypto-Kitties are distributed automatically, via smart contract, at the rate of one every 15 minutes (672 per week) for one year. Each Crypto-Kitty is represented in the form of a non-fungible ERC-721 token.



Fig 2 Game using Non-Fungible Assets

III. BLOCKCHAIN TECHNOLOGY IN THE GAMING

The blockchain is an incorrupt digital ledger of economic transactions that may be programmed to record not simply monetary transactions however nearly everything valuable. Blockchain technology in the gaming community includes using characters in multiple games with interlinked environments. Using block chains to track in-game items can also help increase the value of those items by providing new ways to use them in and out of the games.

Developers can also create rare items and prove their scarcity — one of the reasons why trading card games like Spell of Genesis became so successful within the community. Special wallets can then be used to store these assets for proof of ownership and facilitate item/asset trades between games.

Distributed ledgers can also mitigate the fees users and merchants must pay for in-game payment gateways and subscription fees, as decentralized payment gateways and crypto-currencies feature cheaper fees than their credit card company counterparts.

Innovations in the budding field of blockchain

Gaming has pushed the limits of non-fungible assets and is poised to keep supplying novel developments in other areas like scalability. Gamers were some of the early adopters of crypto-currencies as they were already familiar with many in-game virtual currency models and saw the benefits of integrating crypto-currency networks into the domain. The e-Sports industry is booming, and it is only a matter of time before its rise is meaningfully coupled with crypto-currency payment systems and decentralized models.

Video game industry with blockchain technology empowers game developers and players by creating a transparent relationship between them for this building decentralized applications and Ethereum Tools to be used inside of video games. Game design, programming, production, and distribution are also possible because of the blockchain.

Non-fungible assets:

A non-fungible token (NFT) may be a special style of cryptanalytic token that represents one thing unique; non-fungible tokens are therefore not interchangeable this is often in distinction to crypto-currencies like bit-coin, and lots of network or utility tokens that are fungible in nature.

An NFT is basically a novel illustration of associate plus or sensible within the variety of a virtual token. Through cryptography, they assist to verifiably prove possession associated credibility of a plus.

NFTs are distinctive and can't get replaced by another item. The implications of this in a very distributed medium while not centralized authority are wide move and can alter a future category of digital assets, from fractionalized possession to attachment globe assets to a digital token.

NFTs are revolutionizing the globe of on-line games. In general, once enjoying games, characters can get tradable things like weapons, clothes, and pets. Making AN NFT for every item permits these props to be listed with points within the game or perhaps real-world money, and at last constructs an internet digital economy for virtual product. These NFTs are keeping within the blockchain, thus their data, possession and every one dealing records are clear and can't be destroyed or tampered.

De-centralized app

DApps (De-centralized apps) are distributed internet apps which runs on decentralized P2P network and whose code base is publicly open for others as an open source to be accessed and customized. DApps is not owned by any single node in the network. Peers in the network can be any single computer which is connected to the internet.

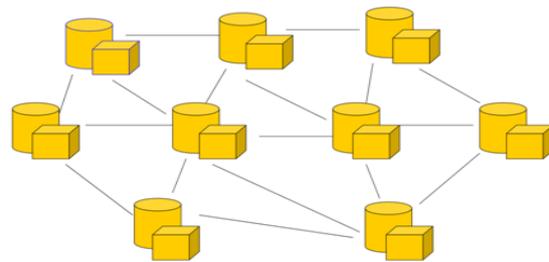


Fig 3 Decentralized P-P Network

IV. CONCLUSION

2016 was the year in which blockchain theory achieved general acceptance, but as the year comes to an end, blockchain technology is mostly used in all areas for commercial ability. This is not only for particular gaming industry others like Stock trading, Land title registration, Data management, Anti-money laundering (AML) and know your customer (KYC), Identity management, Internet of Things (IoT), Prediction markets, Governance.

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