Key Notes

AT A GLANCE

Zucoins

Zucoins are next generation cryptocurrency, solving the “blockchain trilemma” of speed, security and scalability by using data fragmentation to achieve instant peer-to-peer consensus and validation based on an autonomous and permissionless framework. The total number of Zucoins generated on the genesis block is 100 million.

Splitcryption

Splitcryption is the patented technology on which Zucoins have been built. It has been extended with additional features and mechanisms superior to blockchain. The system significantly reduces the computational effort required to confirm a transaction when compared to conventional blockchains, without compromising the integrity of transactions. The peer-to-peer system allows the verification of multiple transactions in parallel, increasing the capacity of the network with the increasing number of participants. Peers only hold data relevant to their history.

In contrast, the conventional blockchain approach is for all willing participants to agree on each transaction and to retain a copy of all other network transaction data, resulting in longer transaction wait-times and cost as the number of network participants increase.

SplitChain

The Zucoins framework is a transactional system designed to work with an extendable set of metadata. Due to this, a variety of third-party exchanges involving ownership of both digital and physical objects are expected to occur into the future. This will expand Zucoin’s market penetration beyond just ‘digital currency’ and into all digital transactions.

Zucoins is a cryptocurrency that is the native exchange token on the SplitChain network. SplitChain is not a blockchain in the traditional sense. Unlike Bitcoins which rely on a traditional distributed ledger blockchain (i.e. after miners validate and add incremental blocks of transactions to an ever expanding chain), SplitChain is a distributed ledger that utilises novel technology of fragmenting the ledger across multiple peers on the network in order to maintain high throughput, security and permissionless distributed power of trust.

Zucoins

P2P Distributed Power Of Trust

Zucoins are exchange tokens that can be instantly and securely stored or exchanged between users within the autonomous peer-to-peer Zucoin ecosystem. Based on the autonomous ‘P2P Distributed Power of Trust’, a new peer-to-peer method of consensus and transaction validation, Zucoin’s framework has the additional potential to be utilised by third parties for a variety of different transaction and data types.

Progressive Web Application (PWA)

WHAT IS A PWA?

PWA stands for Progressive Web Application – a website that looks and behaves just like a mobile app. Users can add it to the main screen of their smartphones. PWAs can send push notifications, access the hardware of the mobile device, and even work offline or in an unstable connection. The Zucoin wallet is a PWA.

CRITICAL BENEFITS OF PWA

1. Availability in the offline mode

Websites don’t display content properly if the internet connection is limited or there’s no connection whatsoever. Mobile apps, on the other hand, are often self-contained and allow users to use them while not online. As a result, they offer greater availability and drive engagement. And PWA offers this as well.

2. Mobile-like behaviour

PWAs are designed like mobile apps, but offer advantageous website functionalities like dynamic data and database access. Most PWAs benefit from existing frameworks and UX/UI that allow providing superior user experiences compared to websites. Still, PWAs work like websites and are indexable by search engines, which helps in boosting their exposure on the market.

3. Smooth installation

To install a PWA, users can download the app directly onto their device from a website. A PWA gets its own icon on phones and tablets, just like a mobile app. Moreover, you can place your app in the Google Play Store for greater exposure (the Apple App Store doesn’t allow that option yet).

4. No app store submissions or approvals

You don’t need to publish PWAs on the Google or Apple app stores. As a result, businesses don’t have to go through the long and tedious app store submission and approval process. Also, teams can push new updates without waiting for any approvals – the updates are automatically downloaded and updated when users relaunch the app.

5. No app store fees or commissions

Both Google and Apple charge a 30% commission fee on paid applications as well as in-app purchases. Both Google and Apple charge a 30% commission fee on paid applications as

in-app purchases. For subscriptions made within an application, Google and Apple take a 30% cut during the first year of an in-app subscription while a 15% commission is charged in successive years. By using a decentralised PWA, no fees are payable to Google or Apple which leaves a greater distribution of fees amongst Peers in the SplitChain.

6. Use of hardware features

PWAs allow implementing different mobile features, such as push notifications. The best thing is that developers have full control over their implementation, potentially offering businesses new marketing and sales channel. Moreover, PWAs can take advantage of the hardware features of mobile devices such as geolocation or camera.

HOW PWA BENEFITS DESKTOP USERS

Progressive Web Applications can also be installed on desktop devices like native apps. PWAs stand to bring desktop users many different benefits. For starters, they're smaller in size than native desktop apps. They easily update in the background, so there's no need to encourage users to update their apps on their own. PWAs take no time to install and are reliable.

EXAMPLES OF PWA

Here are a few examples of PWAs that show the reach of this technology among global companies that aim to deliver top value to their customers:

- **YouTube Music**
- **Pinterest**
- **Trivago Hotel Booking**
- **Tinder**

Capabilities

The design of the autonomous P2P Distributed Power of Trust facilitates the free and instant transfer of value (including infinite fractions of Zucoins) that scale with the amount of peers on the network to reach hundreds of thousands of transactions per second, with peer-to-peer connections routed by a distributed power of trust network of connecting 'peer-cached' servers. The patented 'Splitcryption' technology formed the basis of the technology's research and development. The SplitChain system took those ideas and provided additional ownership properties (and more).