EVNODE
Technology

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INTRODUCTION

The blockchain industry has come a long way, but it still faces significant challenges that limit its potential for mass adoption. Issues like slow transaction speeds, high fees, and concerns about energy consumption have created barriers for developers, businesses, and users alike. Evnode was created to address these challenges and offer a solution that is not only innovative but also practical.

Evnode is a Layer 1 blockchain built to combine speed, security, and sustainability. Using the Proof of Authority (PoA) consensus mechanism, Evnode ensures faster transaction processing while drastically reducing energy consumption compared to traditional blockchain systems. This makes it an eco-friendly alternative in an industry often criticized for its environmental impact.

What sets Evnode apart is its focus on compatibility and ease of use for developers. The blockchain is fully compatible with the Ethereum Virtual Machine (EVM), which means developers can seamlessly migrate their existing Ethereum-based projects or create new ones using familiar tools like Solidity. This opens up a world of opportunities for building decentralized applications (DApps) across industries such as finance, gaming, and social media.

At the core of the ecosystem is EVO Coin, the native token that powers all network activities. From paying transaction fees and staking to governance and DeFi participation, EVO Coin is designed to support both utility and growth within the ecosystem. With its fair and strategic tokenomics, Evnode ensures sustainability while encouraging community involvement.

The goal of Evnode is to bridge the gap between innovative blockchain technology and real-world usability. Through a combination of high performance, developer-friendly tools, and a strong commitment to environmental responsibility, Evnode aims to set a new standard for what a blockchain platform can achieve. This document outlines the vision, technical structure, and roadmap that will guide Evnode toward becoming a leader in the blockchain space.

EVNODE BLOCKCHAIN

Evnode Blockchain represents the next generation of Layer 1 platforms, built to address critical challenges in the blockchain industry. With its innovative architecture, Evnode delivers a seamless blend of speed, scalability, security, and sustainability, setting the stage for the development of decentralized applications (DApps) that meet real-world demands.

1. WHAT IS EVRC20?

At the core of the Evnode ecosystem is EvRC20, a high-performance blockchain designed to facilitate fast and secure transactions. EvRC20 serves as the foundation for the platform's decentralized network, providing the infrastructure needed to power a wide range of applications.

With the ability to process 5,000 transactions per second (TPS) and achieve transaction finality within 3 seconds, EvRC20 eliminates the delays and congestion often associated with traditional blockchains. This level of performance makes it ideal for use cases where speed and reliability are crucial, such as financial services, gaming, supply chain management, and social media platforms.

EvRC20 also offers a cost-effective environment for developers and users. Its efficient design ensures that transaction fees remain low, enabling greater accessibility and wider adoption for blockchain-based applications.

LAYER	EVNODE BLOCKCHAIN IS LAYER 1
TPS	MAX TPS 5,000
DAPPS	YES, EVNODE SUPPORT BUILD DAPPS
SMART CONTRACT	SOLIDITY & VYPER
Transaction FEE	0.001 EVO (1 GWEI)

2. PROOF OF AUTHORITY (POA) CONSENSUS MECHANISM

Evnode employs the Proof of Authority (PoA) consensus mechanism, which is designed to deliver both security and efficiency. Unlike Proof of Work (PoW), which requires massive computational power, or Proof of Stake (PoS), which relies heavily on token holdings, PoA is built on the trustworthiness of validators.

Validators in the PoA system are carefully selected based on their reputation and commitment to the network. This ensures that only trusted participants have the authority to validate transactions and produce new blocks. Evnode incorporates advanced security measures, including:

- **Double-Sign Detection**: Prevents validators from attempting to validate conflicting transactions.
- **Slashing Mechanisms**: Penalizes validators for malicious actions, ensuring accountability and integrity.

By reducing the computational demands typically required for consensus, PoA significantly lowers the energy consumption of the network, aligning with Evnode commitment to sustainability.
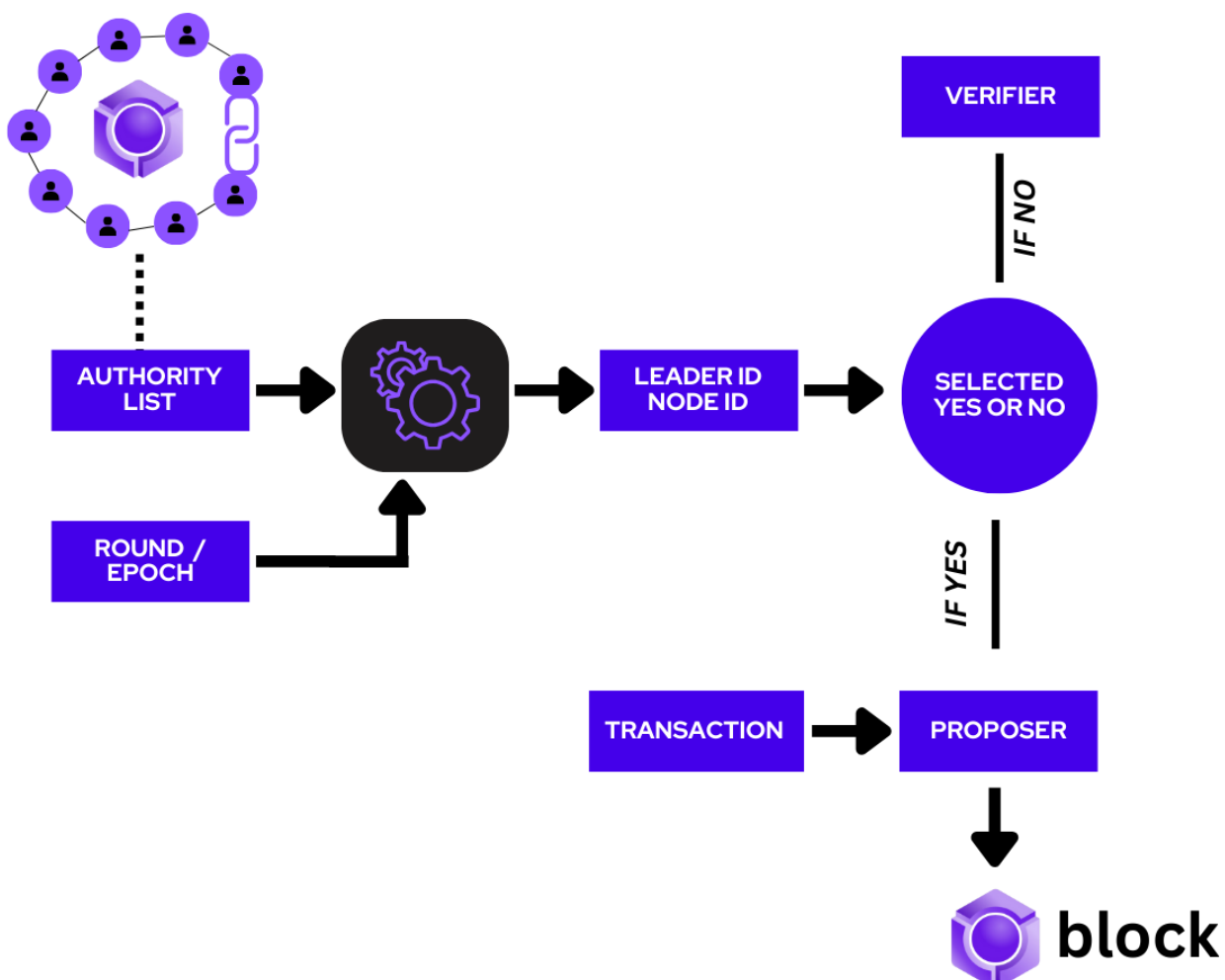
3. HIGH PERFORMANCE AND SCALABILITY

One of Evnode standout features is its ability to handle high transaction volumes without sacrificing speed or security. The blockchain can process up to 5,000 transactions per second, far exceeding the capabilities of many existing platforms. Additionally, its 3-second transaction finality ensures that transactions are confirmed almost instantaneously, providing a seamless user experience.

This high throughput and scalability make Evnode an ideal choice for developers building applications that require real-time interaction, such as:

- High-frequency trading platforms.
- Decentralized social media networks.
- Blockchain-based gaming and metaverse projects.

The ability to handle large-scale operations without congestion ensures that Evnode remains robust, even as the ecosystem grows.

4. EVM COMPATIBILITY

Evnode full compatibility with the Ethereum Virtual Machine (EVM) bridges the gap between established blockchain ecosystems and the next generation of decentralized networks. EVM compatibility allows developers to:

- Seamlessly Migrate Projects: Existing Ethereum-based projects can transition to Evnode with minimal modifications.
- Use Familiar Tools: Developers can work with well-known programming languages like Solidity and Vyper, and utilize tools such as MetaMask, Truffle, and Remix.
- Leverage Interoperability: Applications can interact with Ethereum's vast ecosystem of DApps and smart contracts, creating new opportunities for cross-chain collaboration.

EVM compatibility ensures that developers don't have to start from scratch when building on Evnode. Instead, they can leverage their existing knowledge and tools, reducing development time and encouraging rapid innovation.
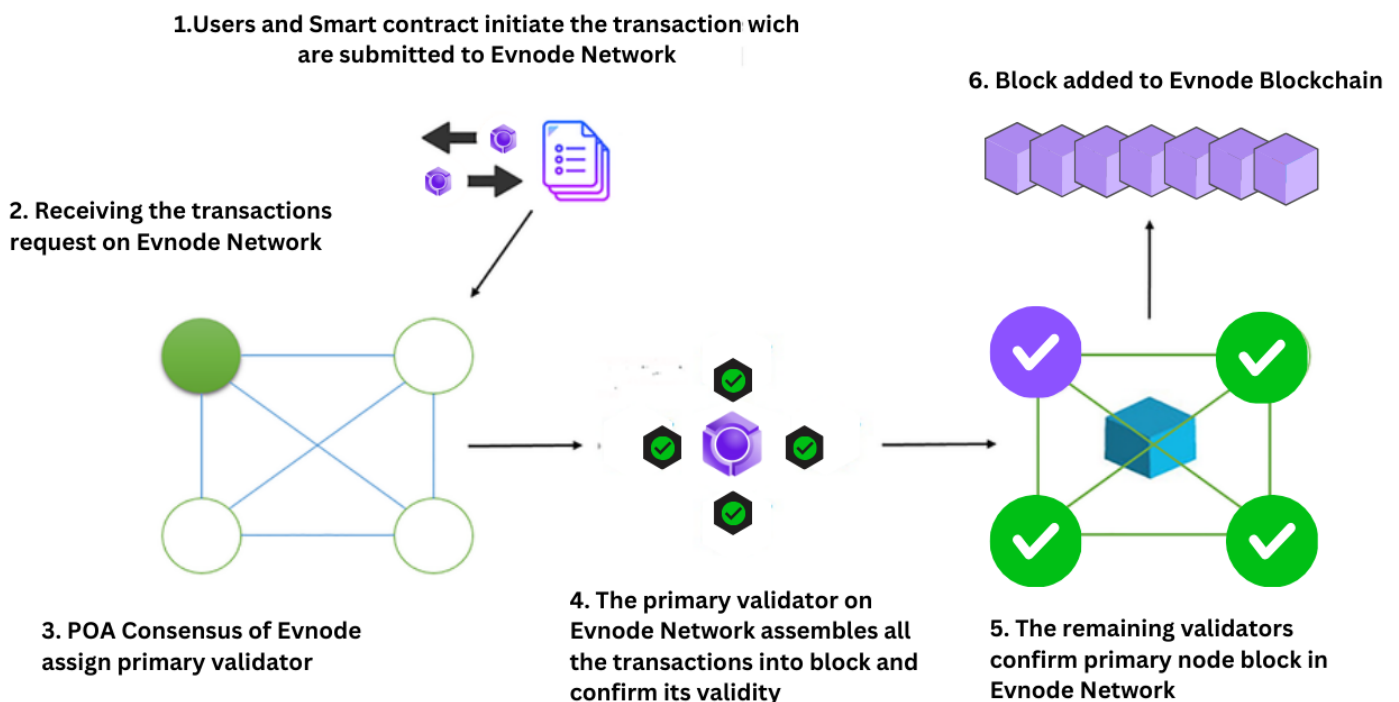
5. SUSTAINABILITY COMMITMENT

Unlike many traditional blockchains that rely on energy-intensive mining, Evnode is designed with sustainability at its core. By using PoA, Evnode significantly reduces energy consumption while maintaining robust security and high performance. This commitment is further reinforced through the Evnode Green Initiative, which aims to achieve carbon neutrality and set a new standard for environmentally responsible blockchain practices.

6. MODULAR AND FUTURE-READY ARCHITECTURE

Evnode modular architecture ensures that the blockchain remains adaptable as the industry evolves. Each component of the EvRC20 ecosystem is designed to be updated or expanded without disrupting the network. This flexibility allows Evnode to integrate new technologies, enhance existing features, and stay ahead of industry trends.

CONCLUSION ABOUT EVNODE

Evnode Blockchain combines cutting edge technology, user-focused design, and an unwavering commitment to sustainability. By addressing the limitations of existing platforms such as slow transaction speeds, high fees, and environmental concerns— Evnode sets itself apart as a forward-thinking solution for developers, businesses, and users. With its high performance, EVM compatibility, and eco-friendly approach, Evnode is more than just a blockchain it's a platform for building the future of decentralized innovation.

1.Users and Smart contract initiate the transaction wich are submitted to Evnode Network

2. Receiving the transactions request on Evnode Network

3. POA Consensus of Evnode assign primary validator

4. The primary validator on Evnode Network assembles all the transactions into block and confirm its validity

5. The remaining validators confirm primary node block in Evnode Network

6. Block added to Evnode Blockchain

EVO COIN TOKENOMICS

EVO Coin is the native token of the Evnode blockchain and plays a central role in powering the ecosystem. Designed with sustainability and utility in mind, the tokenomics of EVO Coin ensure a balanced distribution, incentivize participation, and support long-term growth.

1. TOTAL SUPPLY AND DISTRIBUTION

The total supply of EVO Coin is capped at 100,000,000 tokens, with allocations strategically divided to meet the needs of the network and its participants:

- Liquidity (Uniswap) – 92%
- A majority of the supply is allocated to liquidity, ensuring smooth and stable trading on decentralized exchanges like Uniswap. This high liquidity minimizes slippage and provides a solid foundation for EVO Coin's market presence.
- Burn – 1%
- A portion of the total supply is set aside for burning, introducing a deflationary mechanism that gradually reduces the circulating supply. This scarcity can drive long-term value appreciation.
- Marketing – 1.5%
- This allocation is dedicated to promoting the Evnode ecosystem, raising awareness, and attracting new users and developers to the platform.
- DeFi – 1.5%
- Funds are reserved to support decentralized finance initiatives within the Evnode ecosystem, including staking, farming, and liquidity pools.
- Development – 1% (Locked for 1 Year)
- To ensure continuous innovation, 1% of the supply is allocated to development efforts. This portion is locked for one year, demonstrating Evnode commitment to long-term growth and transparency.
- Bridge Supply – 1.5%
- This allocation facilitates interoperability by powering cross-chain bridges, enabling seamless transfers between Evnode and other blockchain networks.
- Rewards – 1.5%
- These tokens are used to incentivize community participation and reward validators, stakers, and ecosystem contributors, ensuring an active and engaged network.

2. TRANSACTION TAX STRUCTURE

To sustain the ecosystem and promote stability, EVO Coin transactions are subject to a 5% tax on both buys and sells:

- 2%: Added to liquidity, ensuring consistent trading stability and reducing price volatility.
- 3%: Allocated for marketing initiatives to expand Evnode reach and attract a growing community.

This transaction tax ensures that the ecosystem remains self-sufficient while fostering long-term growth and development.

3. UTILITY AND USE CASES

EVO Coin is a multi-purpose token that drives the functionality of the Evnode blockchain. Key use cases include:

- Transaction Fees: EVO Coin is used to pay for transactions on the Evnode network, benefiting from low fees and fast processing times.
- Staking and Rewards: Users can stake EVO Coins to help secure the network while earning rewards for their participation.
- Governance: EVO Coin holders have voting rights, allowing them to participate in decision-making processes that shape the future of the Evnode ecosystem.
- DeFi Applications: EVO Coin powers decentralized finance tools such as staking, farming, and liquidity pools within the Evnode ecosystem.

4. DEFLATIONARY FEATURES

The inclusion of a burn mechanism helps reduce the circulating supply of EVO Coin over time. This deflationary feature creates scarcity, which can support token value appreciation and long-term sustainability for the ecosystem.

CONCLUSION ABOUT TOKENOMIC

tokenomics of EVO Coin are carefully designed to balance growth, utility, and sustainability. With strategic allocations, a deflationary mechanism, and robust use cases, EVO Coin is positioned to power a thriving ecosystem that benefits developers, users, and investors alike. By ensuring liquidity, incentivizing participation, and supporting development, EVO Coin is not just a currency it's the backbone of the Evnode blockchain.

USE CASES

EVO Coin and the Evnode blockchain are designed to power a wide range of real-world applications. By offering speed, scalability, and sustainability, Evnode provides a strong foundation for developers and businesses to create innovative solutions. Here are some key use cases for Evnode:

1. DECENTRALIZED FINANCE (DEFI)

Evnode is a perfect platform for DeFi applications, thanks to its low transaction fees, high throughput, and interoperability. Key DeFi use cases include:

- Staking: Users can stake EVO Coins to earn rewards while helping secure the network.
- Liquidity Pools and Farming: DeFi protocols on Evnode allow users to provide liquidity and earn incentives.
- Token Swapping: With the support of Evdex (Evnode DeFi platform), users can swap tokens seamlessly across multiple chains.

Evnode performance ensures smooth and reliable transactions, making it ideal for financial applications where speed and cost-efficiency are critical.

2. BLOCKCHAIN-BASED SOCIAL MEDIA (EVNITY)

Evnity is a decentralized social media platform built on the Evnode blockchain, designed to revolutionize how people interact, share content, and maintain control over their data. By leveraging blockchain technology, Evnity provides users with a transparent, secure, and privacy-focused social experience.

Features of Evnity include:

- **Data Ownership**: Users have complete control over their personal information and content, ensuring privacy and eliminating third-party exploitation.
- **Content Monetization**: Creators can earn rewards in EVO Coins for their contributions, such as posts, videos, and other shared content, promoting a fairer and more inclusive digital economy.
- **Decentralized Infrastructure**: Unlike traditional social media platforms, Evnity operates on blockchain, guaranteeing transparency, security, and censorship resistance.

Evnity demonstrates how Evnode can disrupt the social media landscape, empowering users and creating a community-driven, decentralized platform.

3. REAL-TIME APPLICATIONS

Evnode fast transaction finality (3 seconds) makes it ideal for applications requiring real-time interactions. Examples include:

- Gaming: Blockchain-based games can use Evnode to enable instant in-game transactions, secure ownership of assets, and NFT integration.
- Supply Chain Management: Businesses can track goods in real-time with secure and immutable records, enhancing transparency and efficiency.
- High-Frequency Trading: Financial markets can benefit from Evnode rapid transaction processing and low fees for real-time trades.

4. INTEROPERABILITY AND CROSS-CHAIN TRANSACTIONS

With its bridge functionality, Evnode enables seamless asset transfers across multiple blockchain networks. This allows developers and users to access a broader ecosystem, promoting collaboration and enhancing the utility of blockchain technology.

5. SUSTAINABLE INITIATIVES

Evnode commitment to sustainability aligns it with green-focused projects. Organizations can leverage Evnode energy-efficient infrastructure to build solutions that prioritize environmental responsibility. For instance:

- Funding eco-friendly projects using EVO Coins.
- Transparent tracking of carbon credits on the blockchain.

Evnode is more than just a blockchain it's a versatile platform capable of supporting diverse applications across industries. From DeFi to gaming, social media, and sustainability, Evnode speed, scalability, and security make it a powerful tool for innovation. Whether you're a developer, business, or user, Evnode provides the infrastructure to bring decentralized solutions to life.

ROADMAP

Evnode journey is meticulously planned to ensure steady growth, technological innovation, and community engagement. Our roadmap outlines the key phases that will guide us from inception to becoming a leading blockchain platform.

1. PHASE 1: BUILDING THE FOUNDATION

- Community Development on Social Media: We'll kick off by establishing a strong presence across various social media platforms to connect with enthusiasts and potential users.
- Creation of Official Evnode Channels: Setting up our official communication channels to provide updates, support, and engage with our community.
- Project Documentation: Developing comprehensive documentation to transparently share our vision, mission, and technical details.
- Design and Publication of the Whitepaper: Crafting a detailed whitepaper to outline our technology, goals, and the problems we aim to solve.
- Tokenomics Structuring for EVO Coin: Defining a sustainable and strategic economic model for our native token.
- Development and Launch of the Official Website: Creating an informative and user-friendly website to serve as the hub for all things Evnode.
- Pre-Launch Community Events: Hosting events to introduce Evnode, gather feedback, and build excitement ahead of our official launch.

2. PHASE 2: EXPANDING THE ECOSYSTEM

- Development of Evnity, a Blockchain-Based Social Media Platform: Creating Evnity to revolutionize social networking with enhanced security and user control through blockchain technology.
- Designing and Implementing Evnity Features: Introducing innovative features to offer a unique and engaging user experience.
- Public Launch of Evnity: Releasing Evnity for users to join, interact, and become part of the Evnode ecosystem.
- Launching EVO Coin on Uniswap: Making our native token available for trading to ensure liquidity and accessibility.
- Creation of Evdex, Our DeFi Platform: Building Evdex to provide decentralized financial services, empowering users within our network.
- Introducing Key Features to Evdex: Implementing functionalities like Swap, Chart, and Multichain Support to offer comprehensive DeFi solutions.
- Initiating EVO Coin Staking: Allowing token holders to stake their EVO Coins to earn rewards and contribute to network security.

3. PHASE 3: STRENGTHENING THROUGH TESTING

- Development of the Evnode Testnet: Building a testing environment to fine-tune the network's performance and security before the mainnet launch.
- Setting Up Testnet RPC Servers: Establishing servers to handle remote procedure calls within the testnet.
- Creating the Testnet Chain ID: Assigning a unique identifier to the testnet blockchain for proper network identification.
- Launching the Testnet Faucet: Providing developers and testers with access to test tokens (tEVO) for experimentation and development.
- Integrating the Testnet Across Our Ecosystem: Ensuring all our platforms and tools are compatible with the testnet for thorough testing.
- Developing the Wallet App: Creating a secure and user-friendly wallet application for managing EVO Coins.
- Implementing Liquidity Locker and Token Locker: Introducing features to enhance security and trust within the network by locking liquidity and tokens.
- Providing Tools for Smart Contract Development on the Testnet: Offering resources for developers to create and test smart contracts in a risk-free environment.

4. PHASE 4: PREPARING FOR THE MAINNET LAUNCH

- Listing on Coingecko and CoinMarketCap: Increasing visibility by featuring EVO Coin on major cryptocurrency tracking platforms.
- Securing Tier 2 Centralized Exchange Listings: Expanding our reach by making EVO Coin available on reputable exchanges.
- Conducting a Certik Audit: Enhancing credibility and security through a comprehensive audit by a leading blockchain security firm.
- Establishing a Partnership with Sphynx: Collaborating with industry partners to strengthen our ecosystem and offer more value to our users.
- Planning the Mainnet Development: Finalizing technical preparations and strategies for a successful mainnet launch.
- Creating Mainnet Chain ID and RPC: Setting up the necessary infrastructure for the mainnet's operation.
- Hosting Community AMA Sessions: Engaging with our community through interactive sessions to introduce the mainnet and address any questions.

5. PHASE 5: DRIVING LONG-TERM GROWTH

- Updating the Whitepaper to Version 2: Reflecting our progress and future plans in an updated and more comprehensive whitepaper.
- Additional Tier 2 Exchange Listings: Continuing to increase EVO Coin's accessibility by listing on more exchanges.
- Ongoing Community Engagement through AMA Sessions: Maintaining open lines of communication to gather feedback and keep the community informed.
- Partnering with Wanchain Bridge: Enhancing cross-chain capabilities by connecting with other blockchain networks.
- Developing EvUSD, Our Stablecoin: Creating a stablecoin to provide more flexibility and stability within the Evnode ecosystem.

Our roadmap represents our commitment to building a robust and dynamic blockchain platform. Each phase is thoughtfully designed to ensure that we not only achieve our milestones but also deliver meaningful value to our community. We believe that with transparency, innovation, and collaboration, Evnode will pave the way for the future of decentralized technology.

SECURITY MEASURES

Security is a cornerstone of the Evnode blockchain. Every aspect of the network is designed to protect user assets, ensure transaction integrity, and maintain trust among participants. Here's how Evnode prioritizes and enforces security:

1. VALIDATOR TRUST AND POA CONSENSUS

Evnode employs the Proof of Authority (PoA) consensus mechanism, which relies on a set of trusted validators. Validators are carefully selected based on their reputation and reliability, ensuring the network is maintained by accountable participants. This approach significantly reduces the risk of malicious activity while maintaining high performance.

2. DOUBLE-SIGN DETECTION AND SLASHING

To prevent dishonest behavior, Evnode incorporates a double-sign detection mechanism. This system identifies and penalizes validators who attempt to validate conflicting transactions. Through slashing mechanisms, such validators lose a portion of their staked assets and are removed from the network, ensuring only honest actors remain.

3. IMMUTABLE BLOCKCHAIN ARCHITECTURE

Transactions on the Evnode blockchain are immutable, meaning they cannot be altered or deleted once confirmed. This provides a transparent and tamper-proof ledger, ensuring that all data recorded on the blockchain is secure and trustworthy.

4. REGULAR SECURITY AUDITS

Evnode is committed to maintaining the highest standards of security. The network undergoes regular security audits, conducted by both internal teams and trusted third-party firms like Certik. These audits help identify and address vulnerabilities, ensuring the network remains robust against emerging threats.

5. SECURE SMART CONTRACT ENVIRONMENT

With its compatibility with the Ethereum Virtual Machine (EVM), Evnode supports the use of proven smart contract programming languages like Solidity and Vyper. Developers are encouraged to use secure coding practices, and tools are provided for testing and auditing smart contracts before deployment to minimize vulnerabilities.

6. COMMUNITY-DRIVEN BUG REPORTING

Evnode fosters a collaborative approach to security through community involvement. Bug bounty programs incentivize developers and security experts to report vulnerabilities, creating an additional layer of protection for the network.

7. WALLET SECURITY AND ASSET PROTECTION

Evnode Wallet App is designed with advanced security features, including private key encryption, two-factor authentication (2FA), and secure backup options. These measures ensure that users can safely store and manage their EVO Coins without risk.

By combining technical safeguards, transparent processes, and proactive measures, Evnode creates a secure environment for all participants. Whether it's through the integrity of its PoA consensus mechanism, the immutability of its blockchain, or its commitment to continuous improvement, Evnode ensures that security is never compromised. This focus on safety and trust is integral to the success and longevity of the Evnode ecosystem.

DEVELOPMENT AND ECOSYSTEM

Evnode is more than just a blockchain it's a comprehensive ecosystem designed to empower developers, businesses, and users. Through a combination of innovative tools, robust infrastructure, and strategic integrations, Evnode creates an environment where decentralized applications (DApps) and blockchain-based solutions can thrive.

1. DEVELOPER-FRIENDLY TOOLS

Evnode provides a range of tools to simplify the development process and encourage innovation:

- Smart Contract Support: With compatibility for Solidity and Vyper, developers can easily create and deploy smart contracts using familiar programming languages.
- Testnet Environment: The Evnode Testnet allows developers to test their applications in a secure, risk-free setting before launching on the Mainnet.
- Smart Contract Tools: Dedicated resources for generating, auditing, and deploying smart contracts ensure high security and efficiency for all projects.

These tools reduce barriers to entry for developers, enabling them to focus on building cutting-edge solutions.

2. WALLET APP

Evnode Wallet App is a secure and user-friendly application for managing EVO Coins and interacting with the ecosystem. Key features include:

- Multichain Support: Manage assets across different blockchain networks.
- Enhanced Security: Includes private key encryption and backup options to protect user funds.
- Integrated Ecosystem Access: Directly interact with DApps, DeFi platforms, and staking features within the Evnode ecosystem.

The wallet serves as the primary gateway for users to engage with Evnode and its applications.

4. DEFI SOLUTIONS

To build trust and transparency in the ecosystem, Evnode offers:

- Liquidity Locker: Ensures that liquidity provided for DApps and DeFi platforms is secure and untouchable for a set period, preventing rug pulls.
- Token Locker: Enables projects to lock their tokens, demonstrating long-term commitment and stability to their communities.

These features provide security and confidence for developers and investors alike.

3. LIQUIDITY LOCKER AND TOKEN LOCKER

Evnode is at the forefront of decentralized finance (DeFi), offering platforms like Evdex, which includes:

- Token Swapping: Seamless exchange of assets with low fees.
- Multichain Support: Allowing cross-chain asset transfers and interaction.
- Staking: Enables users to stake EVO Coins for rewards, contributing to network security and ecosystem growth.

By integrating DeFi tools, Evnode encourages participation and creates new opportunities for users to benefit from blockchain technology.

4. MODULAR ARCHITECTURE

Evnode modular design ensures flexibility and scalability. Developers can build on the blockchain while adapting features to suit their specific needs. This architecture supports continuous updates and the integration of new innovations without disrupting existing operations.

Evnode development ecosystem is designed to empower creators and users alike. With a focus on accessibility, security, and innovation, Evnode provides the tools and infrastructure needed to bring decentralized solutions to life. Whether you're a developer looking to build the next big DApp or a user exploring DeFi opportunities, Evnode ecosystem is equipped to meet your needs and drive the future of blockchain technology.