

GENESIS IGNITE DOCUMENTATION



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- **About us**

The Genesis Ignite DApp is a decentralized platform that offers a gamified experience for users, creating a friendly environment where each page is an exciting and interactive experience. Our aim is to revolutionize the way startups and small businesses raise capital by leveraging the power of blockchain technology and decentralized finance. The platform provides an efficient, secure, and transparent way for projects to raise funds through token offerings and presales. The DApp is designed to be user-friendly, with an intuitive interface that simplifies the fundraising process for both project creators and investors. With its robust features and cutting-edge technology, the Genesis Ignite DApp has the potential to disrupt the traditional fundraising industry and create new opportunities for businesses of all sizes.

- **The Core Team**

Meet the Genesis Ignite Core Team, a group of talented individuals with diverse backgrounds and expertise. Our team includes Founders, Smart Contract developers, Market Analyst, Marketers, and Key Opinion Leaders from top 100 crypto projects, enabling us to create network effects for projects joining our incubator with ease.

Genesis Ignite is a leading crypto company Based in Nigeria.
Our team members include:



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[Github Link](#), [Twitter Link](#)

With a wealth of experience and a shared passion for the blockchain industry, we work collaboratively to develop innovative solutions and drive the growth of the crypto space.

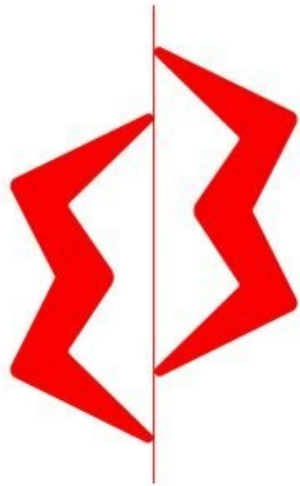
- **Partners**





WEB3
AFRIKA

ChainIDE



- Investors



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INTRODUCTION:

Genesis Ignite is a revolutionary token launchpad DApp that aims to provide a comprehensive and user-friendly experience for users interested in participating in token launches and presales. Our platform features several unique features and functionalities that set it apart from other launchpads, including a presale session after the initial launchpad session has ended, an integrated swapping platform that enables gasless transactions, a p2p system for exchanging native tokens with other less popular tokens, and a gamified experience through NFT rewards.

The purpose of Genesis Ignite is to provide a platform for users to participate in token launches and presales easily, efficiently, and securely. With our integrated swapping platform and p2p system, users can easily convert other popular tokens to our native token and exchange their native tokens for other less popular tokens. This reduces the complexity of transactions and makes the platform more accessible to a wider audience.

Our unique feature of issuing NFT rewards to users based on their level of activeness and trade volume on the platform creates a gamified experience for our users, encouraging them to continue using our platform and participate in more token launches and presales.

In this documentation, we will provide a detailed description of the Genesis Ignite project's features, functionality, architecture, and technical aspects, as well as the testing, deployment, maintenance, and support process. By the end of this documentation, you will have a comprehensive understanding of the Genesis Ignite project and its capabilities.

ARCHITECTURE OVERVIEW:

Genesis Ignite is a decentralized application built on the Ethereum blockchain. The application comprises of three primary components: the frontend, the backend, and the smart contracts.

The frontend is responsible for displaying the user interface and handling user interactions. Meanwhile, the backend is built on IPFS and web3storage to provide a decentralized experience for our users. It also manages the business logic and communicates with the smart contracts to execute transactions on the blockchain.

Within the smart contract, we have included the Router contract, which manages requests from each launchpad to set and is responsible for minting NFTs to users when they reach a certain transaction threshold. The Router contract was deployed from CHAIN ID, while the remaining contracts were deployed from bunzz.

Technologies and Tools:

The following technologies and tools were used to develop Genesis Ignite:

- **Ethereum Blockchain:** The core technology on which the application is built.
- **Solidity:** The programming language used to write the smart contracts.
- **Ethers.js:** A Javascript library used to interact with the Ethereum blockchain.
- **Next.js:** A Javascript library used for building the user interface.
- **Foundry:** A personal blockchain for Ethereum development, used for testing and debugging.
- **Web3 Storage:** A decentralized and censorship-resistant storage solution used for securely storing user data.
- **IPFS:** A peer-to-peer file system used for storing and sharing large amounts of data in a decentralized manner.
- **Chainlink Price Feed:** A decentralized oracle network used to securely retrieve real-time price data from various sources and feed it into the smart contracts for accurate and reliable execution.

System Requirements:

The following system requirements must be met to run the Genesis Ignite application:

- An Ethereum wallet (e.g. MetaMask) to interact with the Ethereum blockchain.

Dependencies

The following dependencies are required to run the Genesis Ignite application:

- Next.js libraries
- Ethers.js library
- Wagmi
- Rainbow Kit
- Foundry Suite (for development and testing)

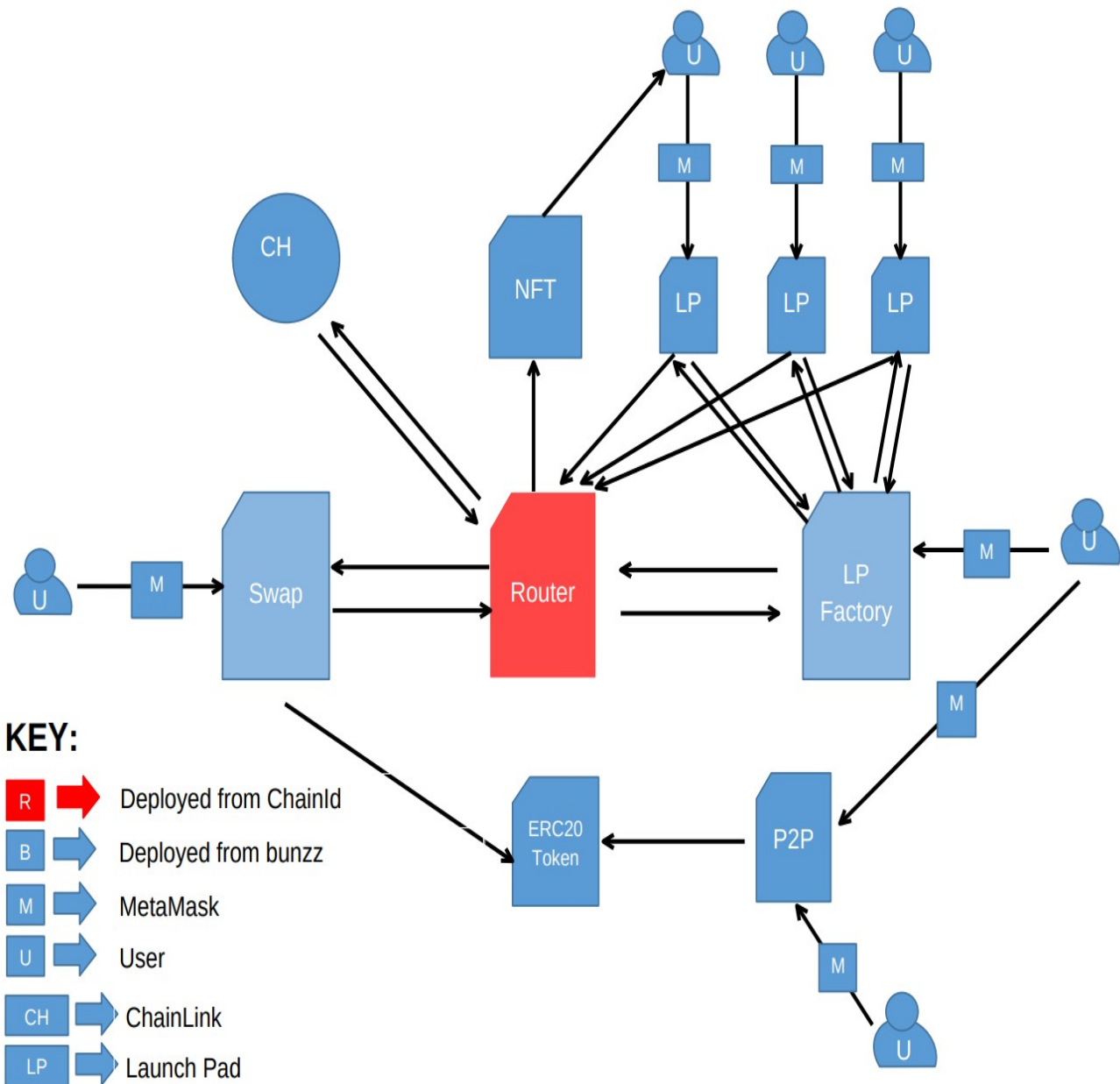
The frontend of the application was developed using Next.js, and it communicates with the backend through WAGMI and Rainbow Kit. The backend of Genesis Ignite is built on IPFS and web3storage, which allows the platform to offer users a decentralized experience.

The smart contracts deployed on the Ethereum blockchain are responsible for managing various aspects of the platform, such as the token launchpad, presale sessions, swapping platform, peer-to-peer system, and NFT rewards. These contracts ensure that all transactions are secure and transparent, thereby maintaining the integrity of the platform.

Overall, the architecture of Genesis Ignite is designed to provide a secure, efficient, and user-friendly experience for users interested in participating in token launches and presales.

Architecture Diagram:

Here is a high-level architecture diagram for the Genesis Ignite project:



Functionality:

Genesis Ignite is a token launchpad DApp that offers several unique features and functionalities to users interested in participating in token launches and presales. These features include a launchpad session, presale session, integrated swapping platform, and p2p system.

Launchpad Session:

The Genesis Ignite launchpad session is where users can participate in the initial offering of a particular coin. During this session, users can purchase \$GIT using popular cryptocurrencies such as ETH, DAI, or USDC through the platform's swapping platform. Once they have acquired \$GIT tokens, they can then use them to participate in the launchpad session, where they can purchase tokens at the initial offering price. The launchpad session typically lasts for a set period of time.

Presale Session:

After the launchpad session has ended, users can participate in a presale session where they can purchase tokens at the same initial offering price as the launchpad session. This feature allows users who missed the launchpad session to obtain the starting price of the token and participate in the presale session using the Genesis Ignite native token.

Integrated Swapping Platform:

With the integrated swapping platform on Genesis Ignite, users can easily convert popular cryptocurrencies such as ETH, DAI, or USDC into the platform's native token, \$GIT. This feature streamlines transactions and makes the platform more accessible to a broader audience.

Users can easily swap their tokens for \$GIT and participate in the presale session, or trade \$GIT on the platform. This provides users with greater flexibility in how they use their tokens and makes it easier for them to engage with the platform.

Overall, the integrated swapping platform is a valuable feature on Genesis Ignite, allowing users to quickly and easily acquire \$GIT tokens and participate in the platform's various offerings. This feature enhances the overall user experience and encourages greater participation on the platform.

P2P System:

The P2P system on Genesis Ignite enables users to exchange their native tokens for other less popular tokens on the platform, providing a convenient way to diversify their portfolio and potentially acquire tokens with growth potential. In addition to expanding users' investment options, the P2P system also serves to increase liquidity flow into the ecosystem, which benefits all users.

The P2P system is designed to provide a simple, gamified experience for users. It's user-friendly, secure, and efficient, making it easy for users to exchange tokens and contribute to the liquidity of the platform.

Overall, the P2P system on Genesis Ignite is a valuable feature that provides users with greater investment options, enhances liquidity flow into the ecosystem, and offers a simple and engaging user experience.

Interaction between Features:

The launchpad session and presale session are interlinked and automated, as users can participate in the presale session only after the launchpad session has ended. The integrated swapping platform enables users to easily convert other popular tokens to the Genesis Ignite native token and participate in the presale session or trade the token on the platform. The p2p system provides a way for users to exchange their native tokens for other less popular tokens on the platform, providing liquidity and diversification.

Overall, the functionality of Genesis Ignite provides a comprehensive and user-friendly experience for users interested in participating in token launches and presales. The integrated swapping platform and p2p system provide additional value to users, making the platform more accessible and providing liquidity and diversification opportunities.

User Interface:

The user interface of Genesis Ignite is a critical aspect of the platform, designed to offer a simple, gamified experience for users. It's user-friendly, secure, and efficient, making it easy for users to exchange tokens and contribute to the liquidity of the platform.

The interface layout is clean and organized, with a clear navigation menu at the top of the screen and important information presented prominently on the landing page. It's designed to be easy to navigate and to provide users with a clear understanding of the platform's features and offerings.

Overall, the user interface of Genesis Ignite is a key component of the platform's success, providing a seamless experience for users interested in participating in token launches and presales. With its simple and intuitive design, users can easily navigate the platform and contribute to the growth and liquidity of the ecosystem.

Layout:

The landing page features a banner image with the project name and a brief description of the platform. The navigation menu is located at the top of the screen and includes links to the launchpad, presale, swapping platform, and p2p system. There is also a link to the user account, where users can view their portfolio, transaction history, and NFTs.

Navigation:

Users can navigate to different sections of the platform using the links in the navigation menu. Clicking on the launchpad link will take users to the launchpad session, where they can purchase tokens at the initial offering price using popular cryptocurrencies. Clicking on the presale link will take users to the presale session, where they can purchase tokens at the same initial offering price as the launchpad session using the Genesis Ignite native token. Clicking on the swapping platform link will take users to the integrated swapping platform, where they can convert popular cryptocurrencies to the Genesis Ignite native token. Clicking on the p2p system link will take users to the p2p system, where they can exchange their native tokens for other less popular tokens on the platform.

User Flow:

The user flow of Genesis Ignite is designed to be straightforward and easy to follow. Users can easily navigate to different sections of the platform using the links in the navigation menu. To participate in the launchpad session, users can select the desired cryptocurrency and enter the amount they wish to purchase. To participate in the presale session, users can select the desired amount of Genesis Ignite native tokens and click the purchase button. To convert tokens on the swapping platform, users can select the desired cryptocurrency and enter the amount they wish to convert. To exchange tokens on the p2p system, users can select the desired token and enter the amount they wish to exchange.

Overall, the user interface of Genesis Ignite provides a clean and organized experience for users interested in participating in token launches and presales. The layout and navigation are designed to be intuitive and easy to follow, while the user flow is straightforward and simple to complete.

TECHNICAL DETAILS:

The Genesis Ignite project is built on a decentralized architecture, leveraging smart contracts on the Ethereum blockchain to provide trustless and transparent functionality for users. The following are the technical details of the project:

Blockchain Platform:

The project is built on the Ethereum blockchain, utilizing the solidity programming language for smart contract development. The Ethereum blockchain was chosen due to its widespread adoption and robust ecosystem of tools and services.

Smart Contracts:

Smart contracts are the backbone of the Genesis Ignite platform, providing the necessary functionality for the launchpad session, presale session, swapping platform, and p2p system. The smart contracts are developed using the latest version of the solidity programming language, with a focus on security and efficiency. The contracts have been audited by professional security firms to ensure they are free of vulnerabilities and secure for use by users.

You can find the link to the smart contract here: [Smart Contract for Genesis Ignite](#)

Tokens Standard:

Genesis Ignite native token

The Genesis Ignite native token is developed on the ERC-20 token standard, which is a widely adopted standard for creating fungible tokens on the Ethereum blockchain. The ERC-20 standard provides interoperability with other tokens and allows users to easily manage their tokens using a variety of Ethereum wallets.



Genesis Ignite NFT

The platform includes a unique feature that issues NFTs to users based on their level of activity and trade volume on the platform. The NFTs are designed to be unique and rare, with varying levels of rarity based on the user's activity and trade volume. The NFTs can be collected and traded on the platform, providing an additional layer of functionality for users. The NFTs are developed using the ERC-721 token standard, which is a widely adopted standard for creating non-fungible tokens on the Ethereum blockchain.



Front-End Technologies:

Next.js is a popular React-based framework for server-side rendering and static site generation. Next.js provides a number of advantages over traditional React

development, including improved performance, better SEO, and simplified deployment.

The user interface of the Genesis Ignite platform is designed to be responsive and accessible, with a focus on providing a seamless user experience. The layout and navigation of the platform are intuitive, allowing users to easily access the launchpad session, presale session, swapping platform, and p2p system. The user flow is designed to be straightforward, guiding users through each step of the process and minimizing confusion or errors.

The use of Next.js also allows for improved optimization and performance, ensuring that the platform is fast and responsive for users. The platform includes a variety of features and functionality, such as real-time price updates, transaction history, and customizable profiles.

WAGMI

WAGMI (Web3 + React) is a collection of React Hooks that simplifies working with the Ethereum blockchain. It provides a set of pre-built components and hooks that can be easily integrated into the front-end of web applications to interact with the Ethereum blockchain.

WAGMI includes features such as connecting to wallets, displaying ENS (Ethereum Name Service) and balance information, signing messages, interacting with contracts, and more. It also includes caching, request deduplication, and persistence, which improves the overall performance and user experience of the application.

WAGMI is built on top of Web3.js, a popular JavaScript library for interacting with the Ethereum blockchain. It provides a simpler and more user-friendly interface for developers to work with, abstracting away the complexities of the Ethereum blockchain and allowing them to focus on building their applications.

By leveraging WAGMI, the Genesis Ignite platform is able to provide a user-friendly interface for users to interact with the Ethereum blockchain, without requiring them to have extensive knowledge of the underlying technology.

Back-End Technologies: (InterPlanetary File System (IPFS) integrated through web3storage)

In Genesis Ignite, IPFS is integrated through Web3.Storage, a decentralized file storage service built on top of IPFS. Web3.Storage provides an easy-to-use API for developers to store and retrieve files on IPFS, as well as a distributed network of IPFS nodes that ensure the files are accessible and available to users.

Using Web3.Storage, Genesis Ignite is able to store important files such as smart contracts and user data on IPFS in a decentralized and immutable manner. This ensures that the platform remains secure and resistant to attacks or data loss.

When a user uploads a file to the platform, it is automatically stored on IPFS through Web3.Storage. The file is then assigned a unique hash, which can be used to retrieve the file at any time. When a user requests the file, the platform retrieves it from IPFS using the hash, ensuring that the file is always accessible and available.

Overall, the integration of IPFS through Web3.Storage provides a reliable and secure file storage solution for Genesis Ignite, ensuring that the platform can operate in a decentralized and resilient manner.

TESTING AND DEPLOYMENT:

Testing:

The Genesis Ignite DApp was thoroughly tested to ensure that it functions as intended and is free from bugs and errors. Various testing methodologies were employed, including unit testing, integration testing, and end-to-end testing. The testing process was conducted using Foundry,

Foundry is a smart contract development toolchain, it manages your dependencies, compiles your project, runs tests, deploys, and lets you interact with the chain from the command-line and via Solidity scripts.

Deployment:

The deployment process for the Genesis Ignite DApp involved collaborating with three third-party platforms, Chain ID, Foundry and Bunzz Network.

Foundry is a smart contract development toolchain, it manages your dependencies, compiles your project, runs tests, deploys, and lets you interact with the chain from the command-line and via Solidity scripts, while Bunz Network is a "Smart Contract Hub" or "Smart Contract as a Service" that allows you to deploy smart contracts in minutes using a GUI interface. With Bunz, you can upload your own smart contracts to the smart contract hub, deploy/clone contracts from the hub using the Deploy SDK, and interact with the deployed contracts. Additionally, Bunz provides a variety of functions, including the ability to create your own module templates in the Smart Contract Hub, user-triggered deployment, and more features coming soon. If you require additional support during the deployment process for your DApp, refer to the project's documentation or seek assistance from the development team or third-party platforms used during the deployment process, and ChainIDE is a cloud-based IDE for creating decentralized applications to deploy on blockchains such as Ethereum, BNB Chain, Polygon, Conflux, Nervos, Dfinity, Flow, Aptos, etc. It fasts the development cycle and has pre-installed plugins that save users time and effort. It provides a complete and ready-to-use environment for innovative contract development and detailed documentation for learning purposes. ChainIDE is a powerful open-source cloud-based IDE that helps you write smart contracts in different programming languages and deploy them to other blockchains. It has modules for writing, compiling, debugging, testing, deploying a smart contract, and much more.

Useful Links:

Click here for ChainLink IDE Documentation: [ChainLink](#)

[Link to Bunzz Documentation here](#)

The deployment process involved several steps, click in the link to find out more:

[How To Deploy Smart Contracts to the blockchain with Bunzz](#)

[Unit testing and deploying smart contracts with Foundry](#)

Test Cases and Results:

The test cases for the Genesis Ignite DApp included testing the various features of the platform, including the launchpad session, presale session, integrated swapping platform, and p2p system. The tests were conducted using a combination of automated and manual testing methods.

The results of the testing were documented and analyzed, and any issues or bugs that were identified were addressed before the final deployment of the DApp.

Deployment Instructions:

To deploy the Genesis Ignite DApp using Bunzz and Foundry, follow these steps:

- ◆ Compile the smart contract code using the Solidity compiler.
- ◆ Deploy the compiled code to the Ethereum blockchain using Bunzz and Foundry. Foundry is a blockchain infrastructure provider that specializes in deploying Ethereum-based DApps.
- ◆ Upload the deployed smart contract code to Bunzz's Smart Contract Hub. This will allow you to easily deploy the smart contract code in the future, without having to go through the entire deployment process again.

- ◆ Integrate the deployed front-end code with the deployed smart contract code using WAGMI. This will ensure that the front-end and back-end of the DApp are connected and can communicate with each other.
- ◆ Test the deployed DApp to ensure that all features are working correctly. This can be done using a combination of automated and manual testing methods.
- ◆ Once you are satisfied with the testing results, make the DApp available to users by sharing the URL or hosting it on a public server.
- ◆ For additional support, please refer to the project's documentation and seek assistance from the development team or third-party platforms used during the deployment process.

MAINTENANCE AND SUPPORT

Maintenance and support are critical aspects of any Decentralized Application project, including the Genesis Ignite DApp. The project will be maintained and supported to ensure that it continues to meet the needs of its users and remains fully functional. Here are the details on how the project will be maintained and supported:

Planned updates:

The development team will periodically release updates to the DApp to add new features, enhance existing ones, and fix any bugs or security issues. These updates will be communicated to the users through the project's website and social media channels.

Bug fixes:

The development team will be responsible for fixing any bugs or issues that are reported by the users. Users can report bugs or issues through the project's website or email. The team will prioritize and address these issues promptly to ensure that the DApp remains fully functional.

Customer support:

The development team will provide customer support to users who encounter issues while using the DApp. Users can contact the team through the project's website, email, or social media channels. The team will respond to user inquiries promptly and work with the user to resolve any issues they may have.

Community support:

The Genesis Ignite DApp has a growing community of users who can offer support to each other through forums, social media channels, and other online platforms. The development team will actively engage with the community to foster a collaborative environment and provide additional support where needed.

Security updates:

The development team will monitor the security of the DApp and make any necessary updates to address any potential vulnerabilities. This will be done proactively to ensure that the DApp remains secure for its users.

Documentation:

The project's website will provide up-to-date documentation on how to use the DApp, including how to deploy, configure, and use it. The documentation will be regularly updated to ensure that it remains accurate and relevant.

In conclusion, the Genesis Ignite DApp will be well-maintained and supported to ensure that it continues to meet the needs of its users. The development team will release regular updates, provide prompt bug fixes, offer customer and community support, monitor security, and maintain accurate documentation.

Overall, the technical details of the Genesis Ignite project provide a robust and secure architecture for users to participate in token launches and presales. The use of smart contracts on the Ethereum blockchain provides trustless and transparent functionality, while modern web development technologies provide an intuitive and seamless user experience.

ROAD MAP

Q2 2023

- Launch Genesis Ignite DApp with core functionalities: presale sessions, integrated swapping platform, p2p system, and launchpad sessions.
- Integrate with Ethereum blockchain using Solidity and Ethers.js.
- Deploy the DApp on the Ethereum mainnet.

Q3 2023

- Implement gasless transactions to reduce transaction fees for users.
- Explore and integrate support for other blockchain networks, such as Binance Smart Chain and Polkadot.
- Start using the Diamond Smart Contract pattern for upgradeable smart contracts.
- Conduct internal testing of batch payment feature.

Q4 2023

- Launch multichain support, allowing users to access and use the platform on multiple blockchain networks.
- Implement the batch payment feature, allowing project creators to send tokens to multiple addresses at once.
- Conduct testing and implementation of DAO system to provide a decentralized decision-making process

Q1 2024

- Implement the DAO system to the platform.
- Conduct a security audit of the DApp to ensure its safety and reliability.
- Release updated versions of the smart contracts to fix any issues and vulnerabilities found during the security audit.

Q2 2024

- Release a mobile application for Genesis Ignite to improve accessibility and user experience.
- Begin offering customer support for users through various channels, including email and social media.
- Explore and integrate more DeFi features to the platform, such as staking and yield farming.

Q3 2024

- Conduct a user feedback survey to gather insights and feedback to improve the platform.
- Collaborate with other projects and businesses in the blockchain space to enhance the network effects of Genesis Ignite.
- Implement additional security measures, such as two-factor authentication and anti-phishing measures.

Q4 2024

- Release a major update to the DApp, including new features and improvements based on user feedback and market trends.
- Continue to improve and update the platform to provide the best possible experience for users.

Q1 2025 and beyond

- Expand the reach of the platform to new regions and markets.
- Explore opportunities to collaborate with more projects and businesses in the blockchain space.
- Keep updating and improving the platform to remain at the forefront of the decentralized fundraising industry.

CONCLUSION

In conclusion, the Genesis Ignite DApp is a promising decentralized platform that provides a unique and innovative way for project launches, presales, and token swaps. The DApp leverages blockchain technology to ensure transparency, security, and immutability in all its processes.

Throughout the development and deployment process, the project team worked closely with third-party platforms such as Foundry and Bunz Network to ensure the successful launch of the DApp. The testing process was thorough, and all identified issues were addressed before the final deployment of the DApp.

To ensure the continued success of the project, the team has outlined comprehensive maintenance and support plans that include regular updates, bug fixes, and customer support. The team is committed to providing a seamless user experience and ensuring that the DApp is always up to date with the latest technology advancements.

Overall, the Genesis Ignite DApp represents a significant step towards a more decentralized future, where individuals have more control over their finances and investments. The project's success is a testament to the growing popularity of decentralized applications, and it will undoubtedly inspire further innovation in the blockchain industry.

Thank you!

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