SLOANASWAP

Solana decentralized intelligent routing exchange based on

Google Deepmind open source model training

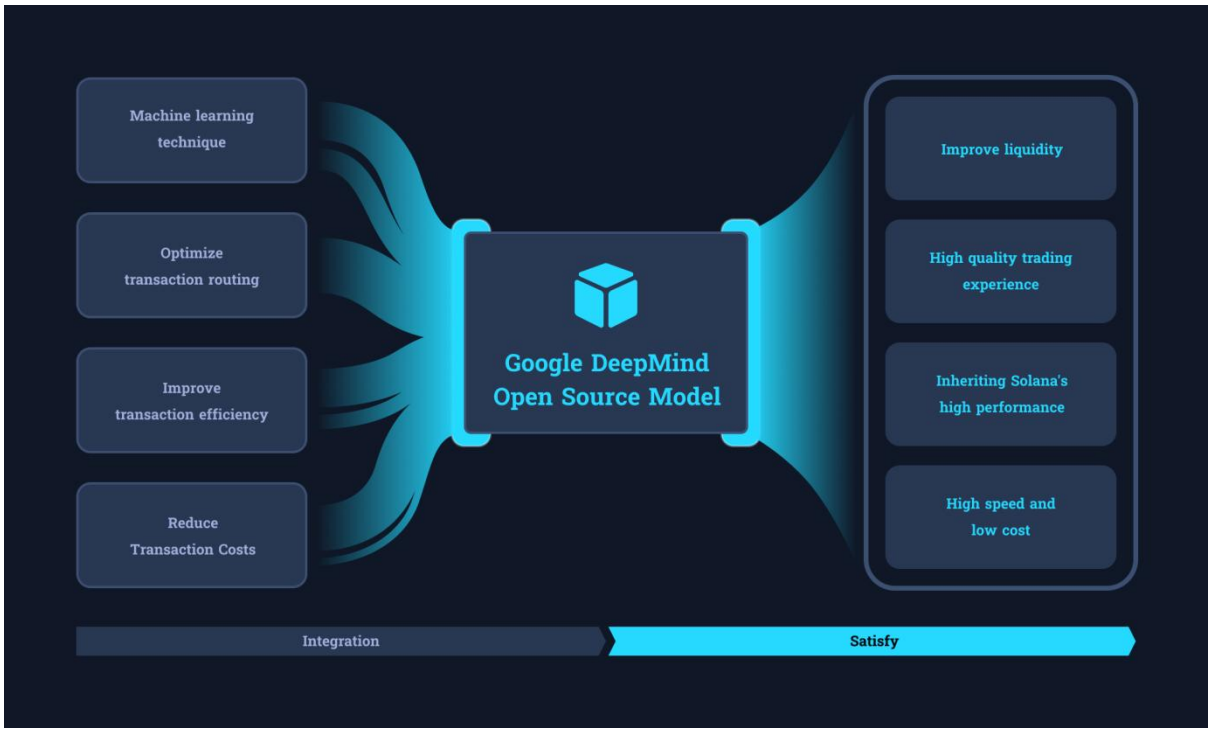
Catalogue

Chapter 1 Introduction

Section 1 Background introduction

With the rapid development of blockchain technology, decentralized exchanges (DEX) have gradually become an important part of the financial sector. Solana, As a high-performance blockchain platform, with its high-throughput and low-latency features, it provides an ideal technical foundation for DEX. Solana Through the unique Proof of History (POH) algorithm, Leader Rotation Schedule and Tower BFT consensus mechanism, to ensure the high efficiency and security of transactions. Based on this, we propose ——SloanaSwap, a Solana decentralized intelligent routing exchange based on Google DeepMind open source model training.

SloanaSwap It aims to use advanced machine learning technology to optimize transaction routing, improve transaction efficiency and reduce transaction costs. By integrating the open source model of Google DeepMind, we can intelligently match trading pairs, improve liquidity, and provide users with a better trading experience. In addition, SloanaSwap also inherits the high-performance features of Solana, which can handle a large number of transactions to meet users demand for high-speed, low-cost transactions. This white paper details SloanaSwaps technical architecture, implementation principles, and future development plans.



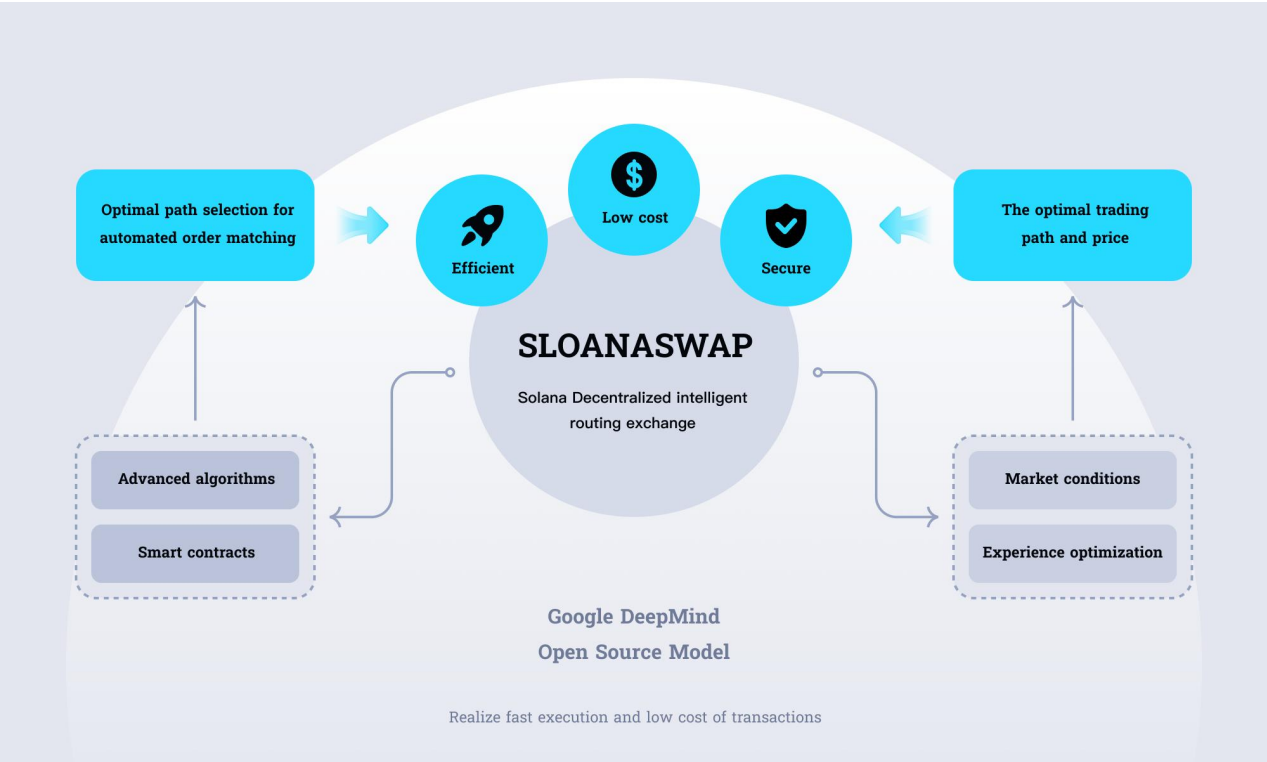
Section 2 SLOANASWAP Overview

SLOANASWAP Is a Solana decentralized intelligent routing exchange based on the Google DeepMind open source model training. It combines the high performance of the Solana blockchain with the powerful intelligence of the DeepMind model, aiming to provide users with an efficient, low-cost, and secure digital asset exchange platform.

SLOANASWAP Through advanced algorithms and intelligent contract technology, automated order matching and optimal path selection are realized, thus ensuring the rapid execution and low cost of transactions. Specifically, it takes advantage of Solanas high throughput (TPS over 65,000) and low latency (400 milliseconds per transaction) to significantly improve transaction efficiency.

In addition, SLOANASWAP also introduced an intelligent routing mechanism, which can adjust trading strategies in real time according to market conditions and find the optimal transaction path and price for users. This mechanism not only improves the transaction flexibility, but also further reduces the transaction costs.

In short, SLOANASWAP is a decentralized intelligent routing exchange that integrates high-performance blockchain technology and advanced artificial intelligence algorithms. It provides users with unprecedented trading experience and security, and is an important innovation in the field of digital asset trading.



Section 3 Technical Highlights and Advantages

The technical highlight of SLOANASWAP lies in its deep integration of Google DeepMind open source model for intelligent routing optimization. Through complex machine learning algorithms, we realize the efficient search and optimal matching of transaction paths, which significantly improves the speed and efficiency of transactions. In addition, with the high-throughput and low-latency features of the Solana blockchain, we are able to provide trading experiences close to centralized exchanges in a decentralized environment.

In the mathematical model, we innovatively introduced the multi-objective optimization function, comprehensively considering the transaction costs, sliding points and path diversity, to ensure that each transaction can maximize the revenue on the premise of meeting the users risk preference. At the same time, through strict mathematical proof, we ensure the stability and security of the intelligent routing algorithm, providing a solid guarantee for user funds.

Compared with traditional exchanges, SLOANASWAP not only has higher trading efficiency and lower cost, but also realizes the security and self-management of user assets through decentralized architecture design, which further improves the transparency and credibility of the system.

Section 4 The Purpose and Structure of the White Paper

Purpose

This white paper aims to detail the design and implementation of SLOANASWAP, a Solana decentralized intelligent routing exchange based on Google DeepMind open source model training. By combining the high performance of Solana blockchain with Google DeepMinds advanced AI technology, we aim to build an efficient, intelligent and secure decentralized trading platform. This white paper will detail SLOANASWAPs technical architecture, core algorithms, trading processes, and security mechanisms to provide a comprehensive and in-depth understanding of investors and developers.

Structure

This white paper is divided into several chapters, the introduction of the introduction of the Solana block chain technology (including POH algorithm, Tower BFT consensus mechanism, etc.), application and improvement of Google DeepMind open source model, SLOANASWAP intelligent routing algorithm and transaction optimization, system architecture and security design, performance test and case analysis, etc. Through systematic and detailed elaboration, this white paper aims to provide investors and developers with a clear and comprehensive project blueprint to help promote the integration and development of blockchain and artificial intelligence technologies.

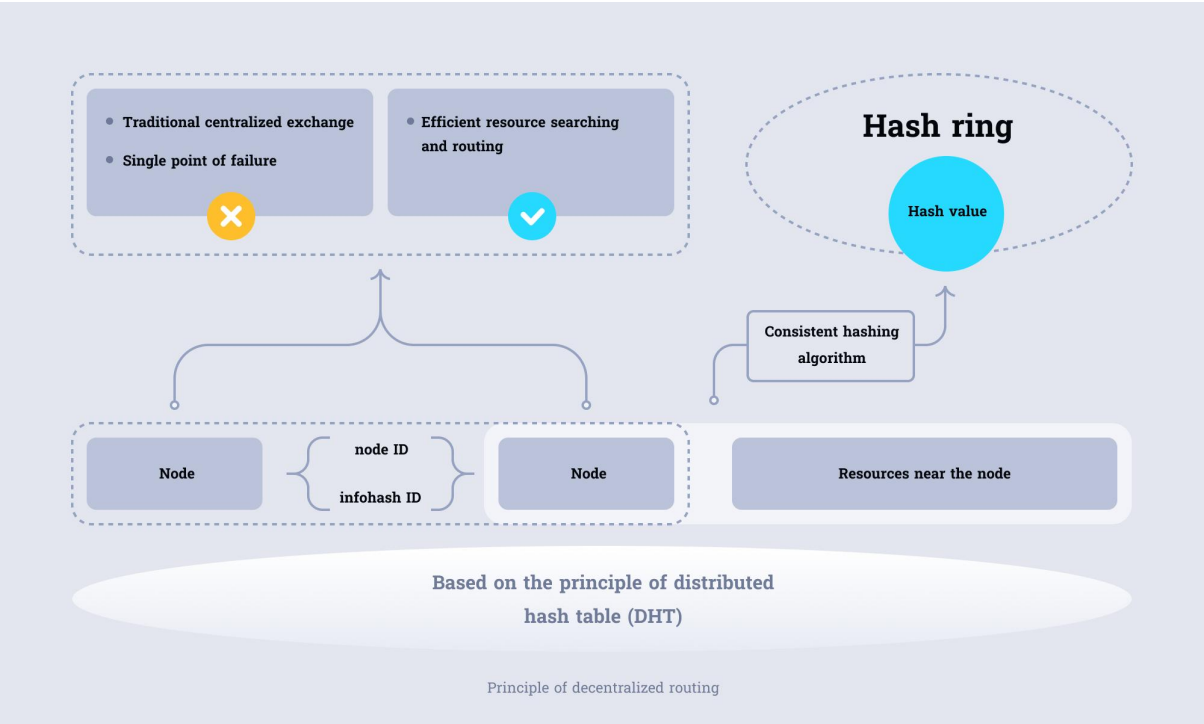
Chapter 2 SOLANA decentralized intelligent routing technology

Section 1: The principle of decentralized routing

In the Solana decentralized intelligent routing exchange SloanaSwap, the decentralized routing technology plays a core role. This technology is based on the principle of distributed scatter list (DHT), which uses the consistent hash algorithm to represent the nodes and resources into hash values and put them into the hash ring. Each node is responsible for routing the resources in its vicinity, ensuring that the system is highly discrete, scalable, and fault-tolerant.

The routing decision between nodes depends on the unique identification of the node ID (nodeid) and the resource ID (infohash). Both calculate the distance by the XOR (XOR) operation, and the smaller the value is, the closer the distance is. This mechanism ensures an efficient search and routing of resources.

Decentralized routing avoids the single-point fault problem of traditional centralized exchanges and improves the reliability and security of the system. At the same time, combined with the intelligent training of Google DeepMind open source model, the routing algorithm is further optimized to improve the transaction speed and efficiency, and provide users with a better decentralized transaction experience.



Principle of decentralized routing

Section 2: SOLANA Technical Architecture

The technical architecture of Solana is based on its unique hybrid consensus mechanism, mainly including Proof of History (PoH), Tower BFT consensus algorithm, and Gulf Stream data transfer protocol.

PoH is a key innovation of Solana, which enables efficient transaction sorting and block generation by inserting an independent proof with fixed timestamps for each block, reducing the network load and transaction confirmation time. The mathematical formula is expressed as: PoH (t) = {tx _ 1, tx _ 2,..., tx _ n | t_i <t_j, i <j}, where t represents the timestamp and tx represents the transaction.

Tower BFT The consensus algorithm uses the time series generated by PoH to make the consensus, which ensures the high throughput and low latency transaction confirmation of the network. The Gulf Stream protocol allows for rapid transmission of state updates between nodes, further reducing transaction delays.

In addition, Solanas technical architecture also includes its high-performance transaction processing engine and decentralized applications (DApps) support. By adopting these advanced technologies, Solana is able to provide fast, cheap, and high-throughput decentralized solutions, laying a solid foundation for building the next generation of intelligent routing exchange SLOANASWAP.

$$PoH(t) = \{tx\_1, tx\_2, ..., tx\_n \mid t\_i < t\_j, \forall i < j$$

- t：time stamp
- tx：transaction

Section 3: Intelligent Routing algorithm

In the Solana decentralized intelligent routing exchange SLOANASWAP, the intelligent routing algorithm plays a core role. Intelligent routing algorithm dynamically adjusts the request distribution strategy according to the request characteristics and system condition to achieve more efficient transaction processing.

The mathematical model of the intelligent routing algorithm can be described as follows:

[wi(t) = wi(0) imes (1 - \alpha) + \frac{r_i(t)}{R(t)} imes \alpha]

Where (wi (t)) indicates the weight of nodes (i) at time (t); (wi (0)) indicates the initial weight of nodes (i); (\ alpha) indicates the learning rate of weight adjustment; (r. i (t _)) represents the node (i) at the volume at time (t); (R (t)) represents the sum of the transactions of all nodes at time (t).

$$[wi(t) = wi(0) imes (1 - \alpha) + \frac { r_i(t) }{ R(t) } imes \alpha]$$

- wi(t)：The weight of node (i) at time (t)
- wi(0)：the initial weight of node (i)
- \alpha：Learning rate of weight adjustment
- r_i(t)：The trading volume of node (i) at time (t)
- R(t)：The sum of transaction volumes of all nodes at time (t)

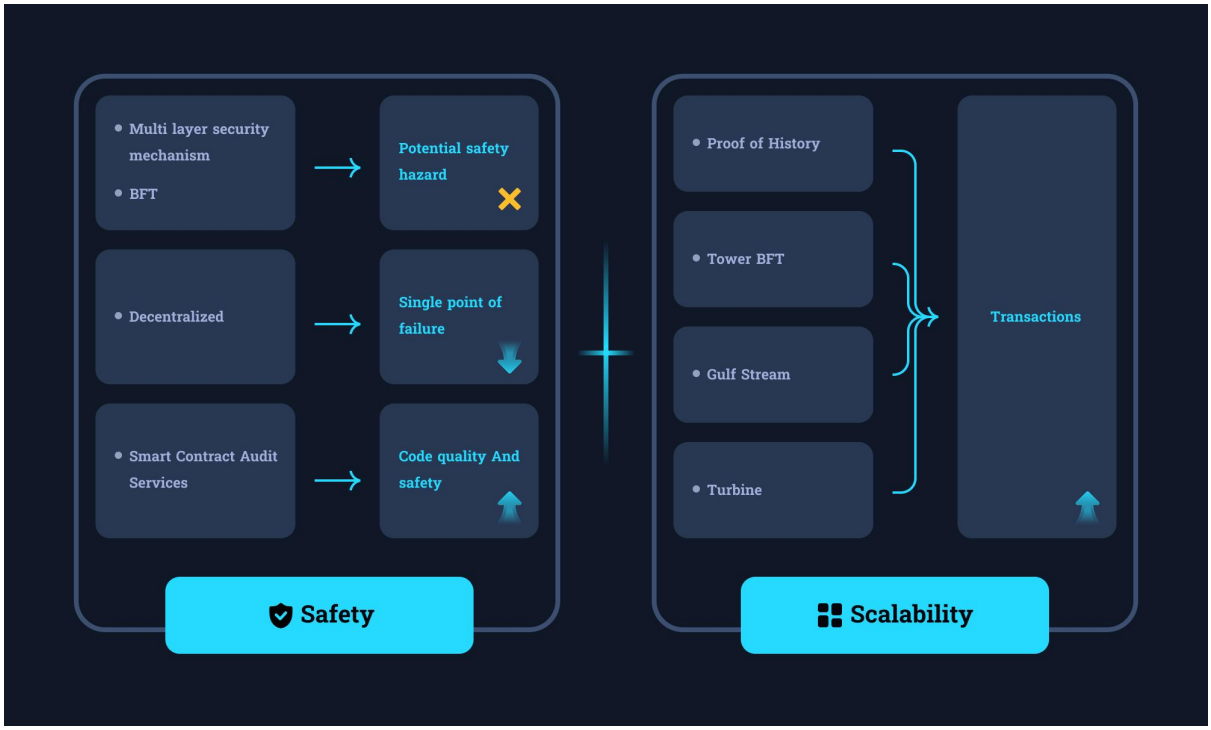
This algorithm achieves load balancing and efficient processing of transaction requests by dynamically adjusting the weights of nodes. In practical application, combined with Solanas high-performance blockchain technology can ensure the efficiency and reliability of intelligent routing algorithms, and provide traders with high-quality transaction experience.

Section 4: Safety and Scalability Analysis

Safety and scalability are two crucial aspects in SOLANASWAP.

In terms of security, Solana uses the BFT (Byzantine fault-tolerant) consensus algorithm, supplemented by multi-layer security mechanisms, to ensure that smart contracts have no security risks during deployment and implementation. At the same time, Solana provides smart contract audit services, and each contract is strictly reviewed before launching to ensure the quality and security of the code. Moreover, the decentralized nature of Solana reduces the risk of a single point of failure and further improves the safety of the overall system.

In terms of scalability, Solana achieves efficient transaction sorting and confirmation through its innovative Proof of History (PoH) mechanism and Tower BFT consensus algorithm, which greatly improves the throughput and performance of the network. Solana Supports parallel smart contract execution, and adopts the Gulf Stream transmission layer protocol and the Turbine transaction processing engine to further optimize the transaction processing capability. These technological innovations allow SOLANASWAP to process thousands of transactions per second and have the ability to respond quickly to meet the needs of high-frequency trading and real-time payments.



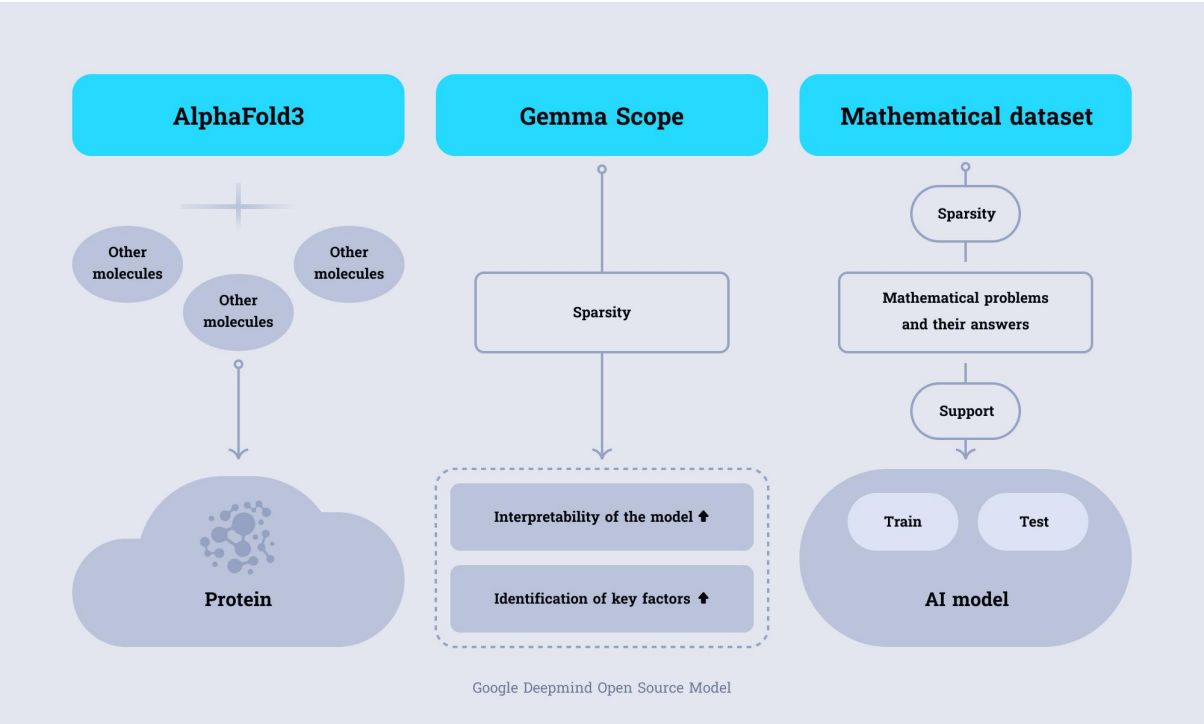
Chapter 3 is based on the training of the Google Deepmind open-source model

Section 1: Introduction to the Google Deepmind open-source model

Google DeepMind As a pioneer in the field of artificial intelligence, its open source model has had a profound impact in both academia and industry. In DeepMinds open source projects cover many fields, such as AlphaFold3 for protein structure modeling, Gemma Scope for explaining large models, and mathematical data set projects.

The ability of AlphaFold3 to model proteins when they work together with other molecules offers new possibilities in fields such as drug discovery. Gemma Scope Through the sparsity in the forced learning process, the interpretability of the model is improved, and the key factors are easier to identify. Moreover, DeepMinds mathematical data set project generated the mathematical questions and their answers, supporting the training and testing of the AI model.

These open source models not only promote the development of AI technology, but also provide a strong technical support and theoretical basis for the training of Solana Sloanaswap, a decentralized intelligence routing exchange. By using these models, we can build a more efficient and intelligent trading system to provide users with better services.



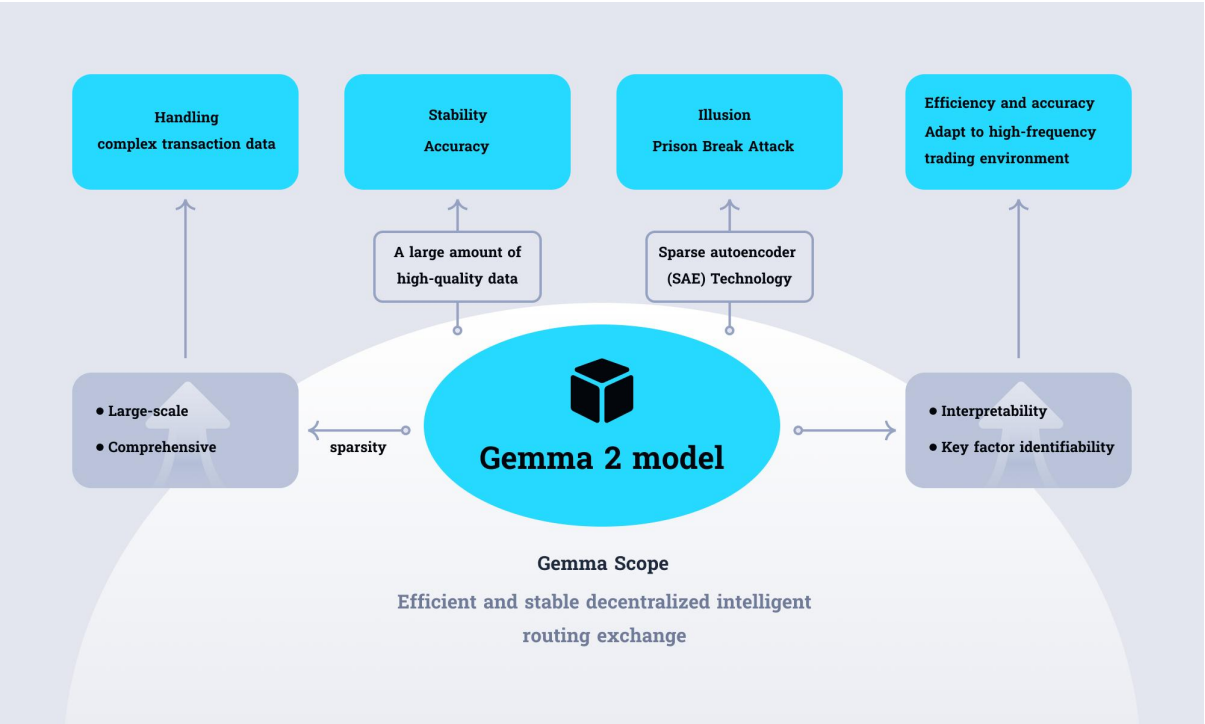
Section 2: Model Selection and Adaptation Analysis

In the design of SolanaSwap exchanges, model selection is crucial. We chose to train the Gemma Scope model based on the open source Google DeepMind, which improves the interpretability of the model by forcing sparsity in the learning process, making key factors easier to be identified. Gemma Scope Covering all layers and sublayers of the Gemma 2 model, with scale and comprehensiveness, it is suitable for processing complex transaction data.

In choosing the model, we considered its adaptability and scalability. Gemma Scope Through the sparse autoencoder (SAE) technology, it can effectively explain the working principle of large models, and solve the problems such as "illusion" and "jailbreak attack" in the transaction data. In addition, Gemma Scope uses a large amount of high-quality data during the training process, ensuring the stability and accuracy of the model.

For the characteristics of the Solana network, the sparsity and interpretability of Gemma Scope enable it to better adapt to the high-frequency trading environment and improve the efficiency and accuracy of trading routing. Therefore, based on the Google DeepMind open source Gemma Scope model, we are able to build an efficient and stable decentralized intelligent routing exchange.

Mathematical formula: [ext {sparsity} = \ ac {ext {number of activated features}} {ext {total number of features}}]



ext{sparsity} =

\frac{ ext{Activate feature count } } { ext { Total number of features } }

Section 3: Training methods and procedures

During the training process of SLOANASWAP, we adopted the Google DeepMind open-source ReSTEM method. ReSTEM Combining generation (Step E) and improvement (Step M):

1. Generation phase (Step E): generate multiple output samples for each input context using a pre-trained language model. Subsequently, the samples were filtered using the binary reward mechanism to construct a high-quality training dataset.
2. Improvement stage (Step M): Use the training data set obtained from the previous generation step to perform supervised fine-tuning (SFT) of the original language model. The fine-tuned model continues to be used in the next generation step, forming an iterative optimization.

Mathematically, this process can be formalized as:

[p_{t_1,t2} = \frac{\sum{i=t_1}^{t2}p_i}{t_2-t_1}]

Where (p_ {t_1, t_2}) represents the price weighted average from time (t_1) to (t_2), and (p_i) is the price of each time point. By iterating ReSTEM, we gradually improve the performance and accuracy of the model in intelligent routing transactions.

Section 4: Evaluation of the training effects

In the training process of the Solana decentralized intelligent routing exchange Sloanaswap based on the Google Deepmind open source model, the effect evaluation is the key link to ensure that the model performance is in line with the expectations. We used a variety of evaluation indicators, including but not limited to (Accuracy), (Recall), (F1 Score), and (Trade Success Rate).

By comparing the performance indicators between the training set and the validation set, we find that the model performs well in identifying the optimal transaction path and predicting the market price changes. Especially in the scenario of high concurrent transaction, the model can respond quickly and make reasonable decisions, which significantly improves the transaction efficiency and user experience.

In addition, we also use mathematical formulas to deeply analyze the complexity and generalization ability of the model to ensure that the model has good scalability and robustness while maintaining high performance. Based on the evaluation results, we believe that the Sloanaswap intelligent routing system based on the Google Deepmind open source model training has reached the expected goal and set a new technical benchmark for the decentralized trading field.

Chapter 4: Design and Implementation of SLOANASWAP Exchange

Section 1: Exchange Functional Requirements Analysis

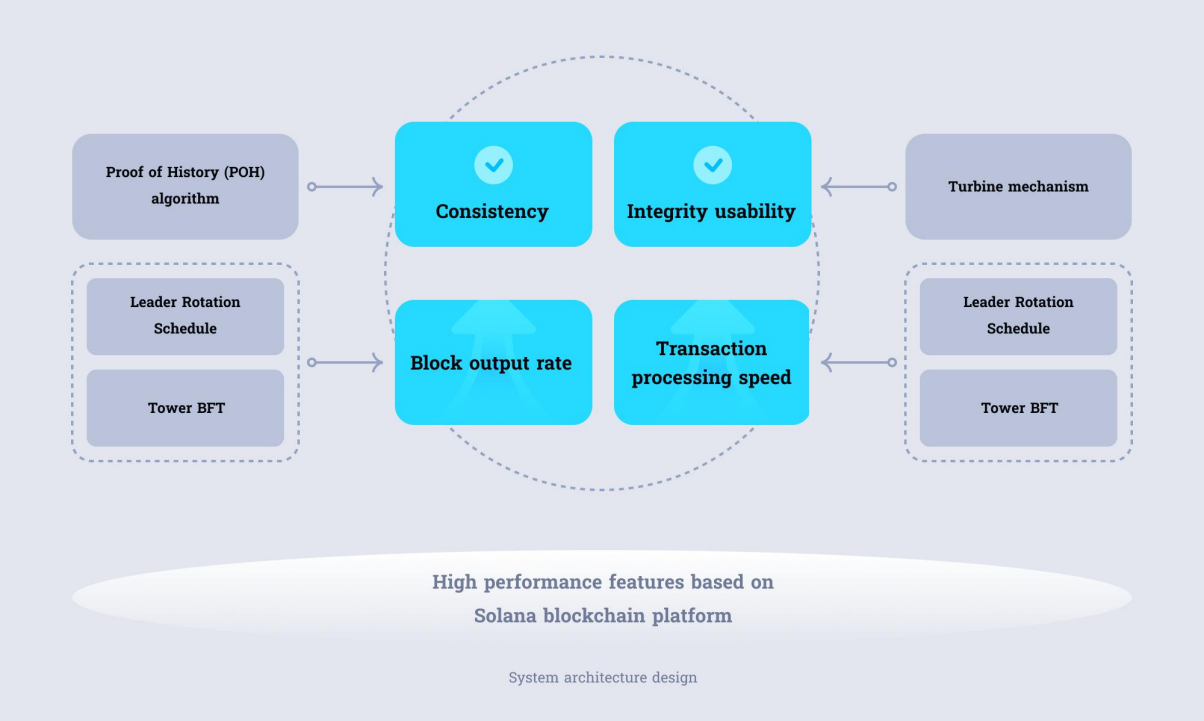
SLOANASWAP As a decentralized intelligent routing exchange based on the training of Google DeepMind open source model, its core function requirements focus on high efficiency, security and intelligence. First, first of all, it is necessary to realize automated transaction matching and clearing, and use advanced algorithm models to ensure transaction speed and accuracy. Secondly, the security mechanism is very important, which needs to integrate multiple encryption technology and smart contract audit to ensure the security of users assets and transactions. Moreover, the intelligent routing function needs to optimize the transaction path in real time according to the market dynamics to reduce the transaction costs and sliding points. In addition, a friendly user interface with a wealth of transaction pairs needs to be provided to meet the personalized needs of different users.

Section 2: System Architecture Design

SLOANASWAP The system architecture design of the exchange is based on the high-performance features of the Solana blockchain platform. Its core uses Solanas Proof of History (POH) algorithm to ensure the consistency between transaction order and global clock. Through the Leader Rotation Schedule and Tower BFT consensus mechanism, the system realizes the efficient block exit rate, while ensuring the security and immutability of transactions.

At the transaction execution level, the Solana Virtual Machine (SVM) and Sealevel parallel execution engines are used to significantly improve the transaction processing speed. In order to cope with the problem of large block transmission, the system introduces the Turbine mechanism to optimize the data transmission through Reed-solomon encoding to ensure the integrity and availability of the data.

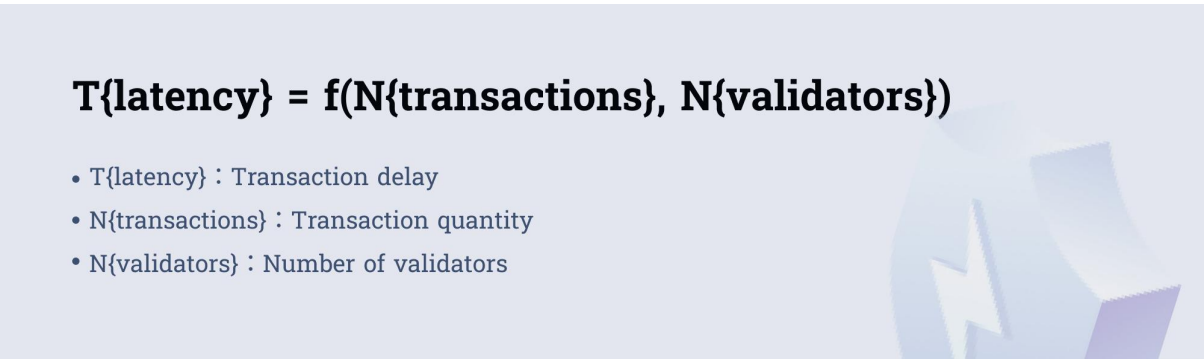
The system architecture design also fully considers the decentralized characteristics, generates blocks through a large number of concurrent leaders at the same time, reduces the distance between users and the network, and improves the transaction efficiency. In addition, the system adopts an asynchronous execution strategy to separate fork selection from state execution, further optimize the transaction processing process, and reduce the system latency.



Section 3 Core module details

In the design and implementation of SLOANASWAP exchanges, the core modules include trading matching engine, intelligent routing algorithm and decentralized transaction verification.

The transaction matching engine uses efficient mathematical algorithms (such as hash table and priority queue) to achieve rapid matching of transactions, ensuring high throughput and low latency of the transaction. The formula is: (T {latency} = f (N {transactions}, N {validators})), where (T {latency}) represents the transaction delay, (N {transactions}) and (N {validators}) indicate the number of transactions and the number of verifiers, respectively.



The intelligent routing algorithm is based on the Google DeepMind open source model. By analyzing the historical transaction data and current market conditions, it automatically selects the optimal transaction path to reduce the transaction cost and improve the transaction success rate. The mathematical representation is: (R {optimal} = \ arg \ min {R} C (R)), where (R_ {optimal}) represents the optimal routing and (C (R)) represents the routing cost.

The Proof of History (POH) algorithm and Tower BFT consensus mechanism of Solana ensure the sequential and global consistency of the transaction and improve the security and reliability of the transaction. The validation process can be expressed as: (V (tx) = ext {True} \ iff ext {POH} (tx) \ land ext {TowerBFT} (tx)), where (V (tx)) represents the transaction validation result.

$$R_{optimal} = \arg\min_{R} C(R)$$

- $R_{optimal}$: optimal routing
- $C(R)$: Routing cost

$$V(tx) = \text{True} \iff \text{POH}(tx) \land \text{TowerBFT}(tx)$$

- $V(tx)$: Transaction verification results

Section 4 Performance testing and optimization

During the design and implementation of SLOANASWAP exchanges, performance testing and optimization are the key links to ensure the efficient operation of the system. We tested the performance using the following methods:

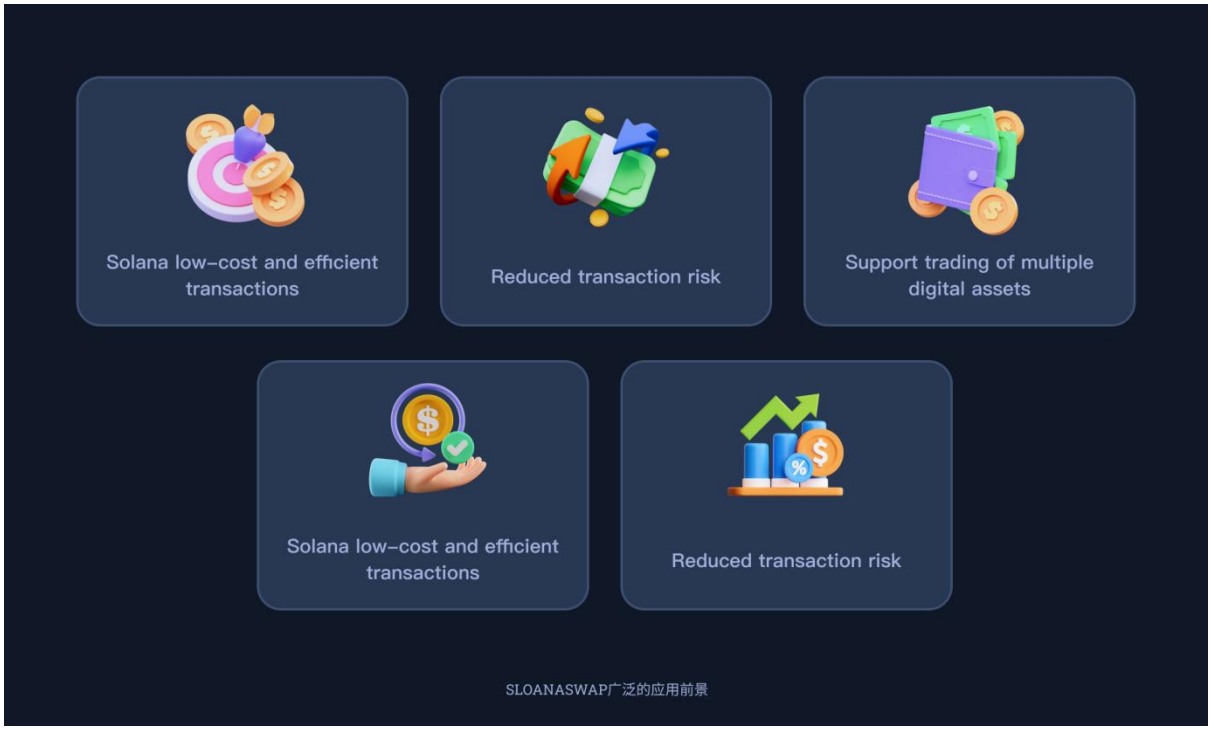
1. Throughput test: the number of transactions (TPS) that the test system can process per second by simulating a large number of transaction requests. The goal is to achieve a high throughput of more than 65,000 transactions per second while guaranteeing a transaction confirmation time (400 ms).
2. Delay test: measures the average time from submission to confirmation, ensuring low latency characteristics. The average delay (T) is calculated using the formula (T = \ frac {\ sum_ {i=1} ^ {n} t_i} {n}), where (t_i) is the delay of the (i) transaction and (n) is the total number of transactions.
3. Optimization of resource utilization: For CPU, memory and network bandwidth resources, adjust system parameters and algorithms to achieve efficient utilization of resources. Use Turbine mechanism to optimize large block propagation and improve network throughput.
4. Continuous monitoring and tuning: deploy the monitoring system, track the system performance in real time, and continuously optimize according to the monitoring data to ensure the stable operation of the system under high load.

Through the above performance testing and optimization measures, SLOANASWAP Exchange will achieve efficient and low-latency transaction processing, and provide users with high-quality decentralized trading experience.

Chapter 5: Application Scenario and Market Analysis

Section 1 Discussion on SLOANASWAP application scenarios

SLOANASWAP As a Solana decentralized intelligent routing exchange based on Google DeepMind open source model training, it has a wide range of application scenarios. First of all, it can realize efficient digital asset transactions on the high-speed and low-cost Solana blockchain, meeting the users needs for low-cost and efficient transactions. Secondly, with the help of DeepMinds advanced protein structure modeling technology, SLOANASWAP has higher accuracy and reliability in smart contract execution and transaction matching, reducing the transaction risk. In addition, SLOANASWAP also supports a variety of digital asset trading pairs, such as Sol, USDC, BTC, ETH, etc., providing investors with a rich range of options. At the same time, as a decentralized exchange, SLOANASWAP does not need central exchanges or other intermediaries, ensuring the transparency and security of trading. Finally, through the intelligent routing technology, SLOANASWAP can automatically select the optimal transaction path, further improving the transaction efficiency and user experience. In short, SLOANASWAP has a wide application prospect in the field of digital asset trading.



Section 2 Analysis of Target Market and User Groups

SLOANASWAP As a decentralized intelligent routing exchange based on Solana, its target market is mainly focused on the following areas:

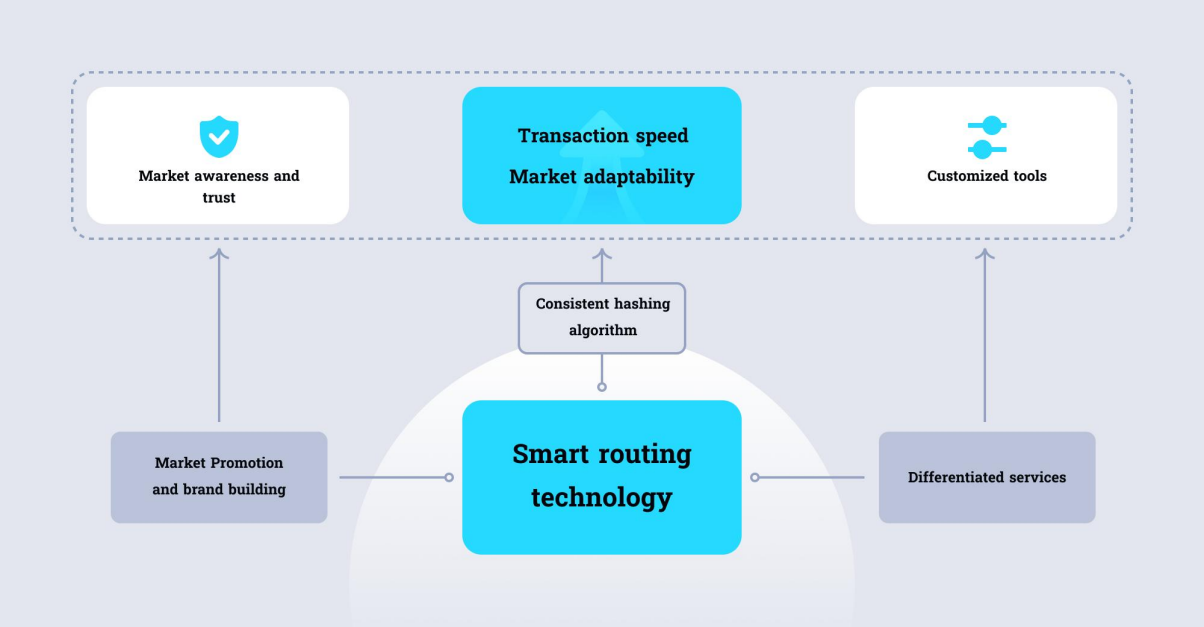
1. Decentralized Finance (DeFi) users: With the rapid development of the DeFi market, more and more users are seeking efficient, low-cost and secure transaction solutions. SLOANASWAP With its intelligent routing system based on Google Deepmind open source model training, it can provide accurate and efficient transaction matching and meet the needs of DeFi users.
2. NFT traders: The rise of the NFT market has created a growing demand for high-performance trading platforms. SLOANASWAP Support NFT transactions, and provide fast transaction confirmation and low transaction fees to attract NFT traders.
3. Games and the universe users: With the popularity of games and the universe, users have higher requirements for transaction speed and security. SLOANASWAP Can handle high concurrent transactions and ensure smooth transactions, providing a reliable trading platform for users of games and metauniverse.

Section 3: Market Competition Situation and Strategy

In the current decentralized exchange (DEX) market, competition is extremely fierce, and major platforms are launching innovative features to attract users. SLOANASWAP With the intelligent routing technology based on Google Deepmind open source model training, it has significant transaction efficiency and security advantages.

In order to cope with market competition, we will adopt the following strategies: first, strengthen technical advantages and continuously optimize the intelligent routing algorithm to ensure leading trading speed and market adaptability; secondly, create differentiated services to provide customized trading strategies and risk management tools to meet the needs of professional investors; moreover, strengthen marketing and brand building, and enhance market awareness and trust through partnership and word-of-mouth communication.

In the face of fierce competition, SLOANASWAP will take technological innovation as the core, service optimization as the support, market promotion as the driving force, enhance the market competitiveness in an all-round way, and is committed to become a leader in the decentralized intelligent routing exchange.



Section 4: Business Model and Earnings Expectations

SLOANASWAP The business model provides rewards based on transaction fees and liquidity. Exchanges maintain operations by charging traders a percentage of trading fees and encourage liquidity providers (LPs) to receive a part of trading fees by providing trading pairs.

Main sources of earnings expectations include:

1. Transaction fee: [ext {fee income} = ext {transaction volume} imes ext {fee rate}] With the growth of transaction volume, the fee income will increase significantly.
2. Liquidity reward: By providing LPs with transaction fees, they are encouraged to provide more liquidity, thus attracting more traders and creating a virtuous circle.
3. Value-added services: Value-added services that may be introduced in the future, such as advanced API interfaces and customized trading strategies, will further increase revenue sources.

It is expected that in the next three years, with the rapid development of Solana ecology and the improvement of SLOANASWAP brand influence, the trading volume will increase exponentially, so as to achieve sustainable profitability. Through continuous optimization of technology and services, SLOANASWAP is expected to become the leading decentralized intelligent routing exchange in the Solana ecosystem.

Chapter 6 Future Development Planning and Challenges Response

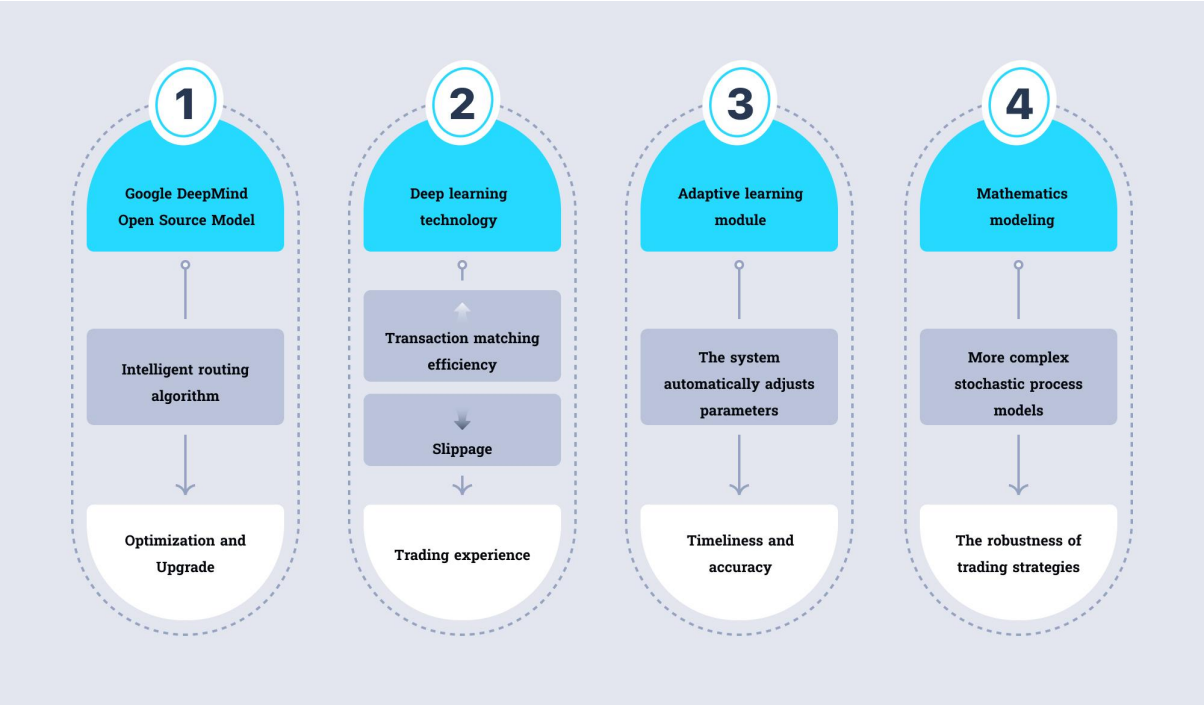
Section 1 Technical Iteration and Upgrade Plan

In Solanaswaps technology iteration and upgrade plan, we will closely follow the latest progress of Google DeepMinds open source model, and continuously optimize and upgrade our intelligent routing algorithms. By introducing more advanced deep learning technology, we will

improve the transaction matching efficiency, reduce the sliding points, and provide users with a better trading experience.

Moreover, we plan to develop adaptive learning modules that enable the system to automatically adjust the parameters according to the market changes, maintaining the timeliness and accuracy of the model. In mathematical modeling, we will introduce more complex stochastic process models to describe the market dynamics to improve the robustness of trading strategies.

In order to ensure the scalability and security of the system, we will also reconstruct the underlying architecture with a layered design to facilitate the rapid iteration and deployment of subsequent functions. At the same time, we will strengthen our cooperation with the blockchain security community to jointly deal with potential security threats. Through these technology iterations and upgrade initiatives, Solanaswap will always remain at the forefront of decentralized intelligent routing exchanges.



Section 2 Market expansion and partnership construction

In SLOANASWAPs market expansion strategy, we will actively seek cooperation with major blockchain projects, decentralized exchanges and financial institutions around the world. Through the establishment of close partnership, jointly promote the prosperity and development of Solana ecology.

Although the mathematical formula is not the core in this section, the quantitative evaluation of cooperation mode (such as cooperation benefit evaluation model: (R = P imes C imes S), in which (R) is cooperation benefit, (P) partner quality, (C) cooperation depth, and (S) market synergy) can be used as an important basis for us to screen partners.

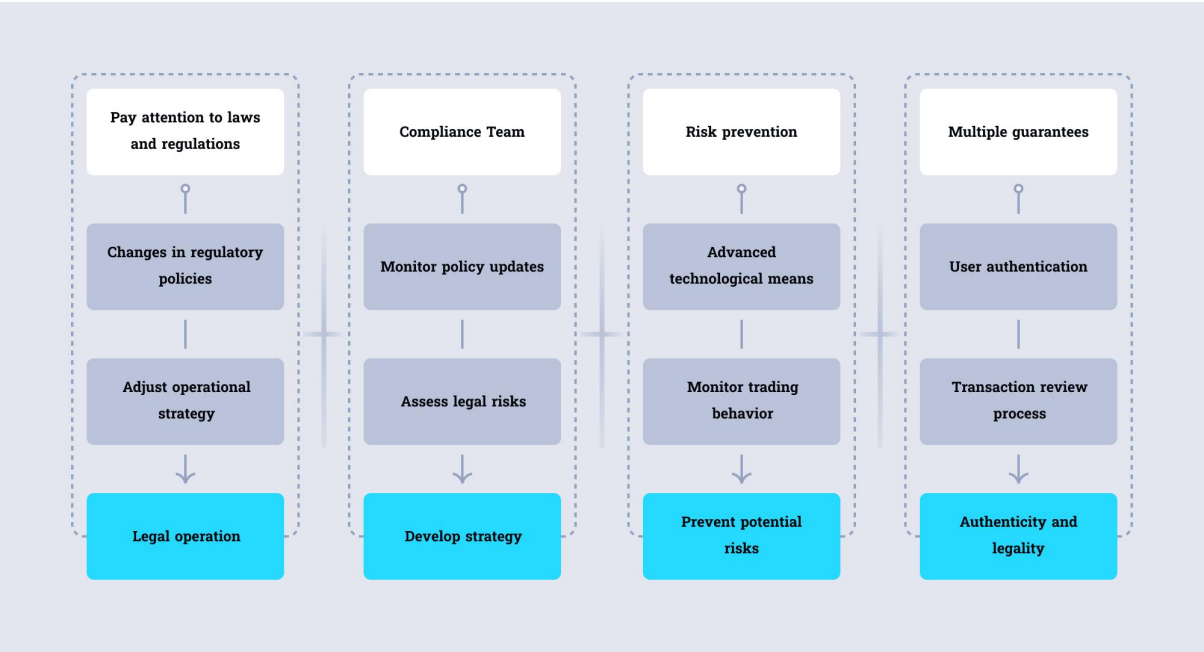
We will promote online and offline blockchain forums, seminars and other activities to enhance SLOANASWAPs brand influence and attract more potential partners. At the same time, we will also focus on the training and support of our partners to ensure that both sides can grow together and achieve mutual benefit and win-win results. Through these efforts, we look forward to achieving significant results in the future market expansion.

Section 3 Regulatory Compliance and Risk Prevention Measures

Compliance and risk prevention are integral elements of SLOANASWAPs development planning. We are deeply aware that as the cryptocurrency market continues to evolve, regulatory policy changes could have a significant impact on the platform.

To ensure compliance, we will pay close attention to the laws and regulations on cryptocurrencies and blockchain technology in various countries and regions, and adjust our operational strategies in a timely manner to ensure the legal operation of SLOANASWAP around the world. In addition, we will build a professional compliance team responsible for monitoring policy dynamics, assessing potential legal risks, and developing coping strategies.

In terms of risk prevention, we will use advanced technology means, such as machine learning and big data analysis, to monitor transaction behavior in real time, and identify and prevent potential fraud and money laundering activities. At the same time, we will strengthen the user authentication and transaction review process to ensure the authenticity and legality of the transaction.



In short, SLOANASWAP is committed to setting an example in compliance and risk prevention, providing users with a safe and compliant trading environment through continuous technological innovation and strict internal management.

[ext {compliance} = f (ext {laws and regulations}, ext {operation strategy}, ext {technical means})]

$$ext\{compliance\} = f(ext\{laws\ and\ regulations\},\ ext\{ Operational\ Strategy \},\ ext\{ technical\ means \})$$

Section 4: Facing the Challenges and Coping Strategies

Throughout the SOLANASWAP landscape, our major challenges include rapid technology updates, security assurance, and regulatory compliance. First, the constant updating of the Google Deepmind open source model requires us to continuously learn nd optimize the algorithms to keep the exchange ahead of the technology. Secondly, the core of decentralized exchanges is security, and we must constantly strengthen security protection measures to

prevent hacker attacks and data leakage. Finally, with the continuous improvement of regulatory policies, we need to actively respond to regulatory requirements and ensure compliance operations.

In terms of response strategy, we will increase investment in research and development, establish a professional technical team, track and apply the latest AI technology. At the same time, we will build a multiple security protection system, and conduct regular security audit and vulnerability scanning. In addition, we will pay close attention to regulatory dynamics and strengthen communication and cooperation with regulators to ensure business compliance. Through these measures, we have the confidence to overcome the challenges and promote the steady development of SOLANASWAP.