



ROMEDEFI SYSTEM



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ROME DECENTRALIZED FINANCIAL SYSTEM





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The mission of Rome decentralized financial system

1. The first nine DeFi protocols in the Rome decentralized financial system

1.1 The nine DeFi protocols will be launched in Rome decentralized financial system in the first phase

- RomeDex, the Rome order-book decentralized Exchange;
- RomeSwap, the Rome AMM swap Exchange;
- RomeDAO, the Rome decentralized autonomous organization and the Knights Templar;
- RomeNfts, the NFTs collection Exchange;
- RomeReserve, the Rome decentralized financial reserve system;
- RomeUSR, the Rome decentralized stable coin protocol;
- RomePool, the Rome decentralized mining pool protocol;
- RomeBank, the Rome decentralized bank protocol;
- RomeDer, the Rome decentralized financial derivatives Exchange;

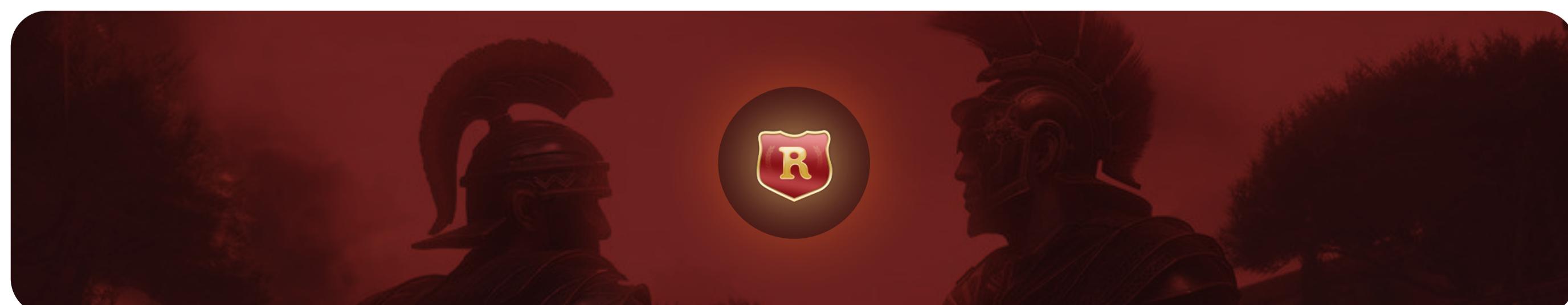
After the above DeFi protocols are deployed and launched successfully in the first phase, the ROMEDEFI SYSTEM will deploy the Rome decentralized oracle system "RomeOracle" and more subsequent protocols on the testnet. After fully tested on the testnet, they will be deployed and launched on the EOS mainnet immediately. As the picture shows.



1.2 The only token of Rome decentralized financial system: ROM

All DeFi protocols and decentralized Exchanges in the Rome decentralized financial system (ROMEDEFI SYSTEM) will be driven by a unique token ROM only. ROM will be issued based on the EOSIO mainnet contract. The issue account: issue.rome.

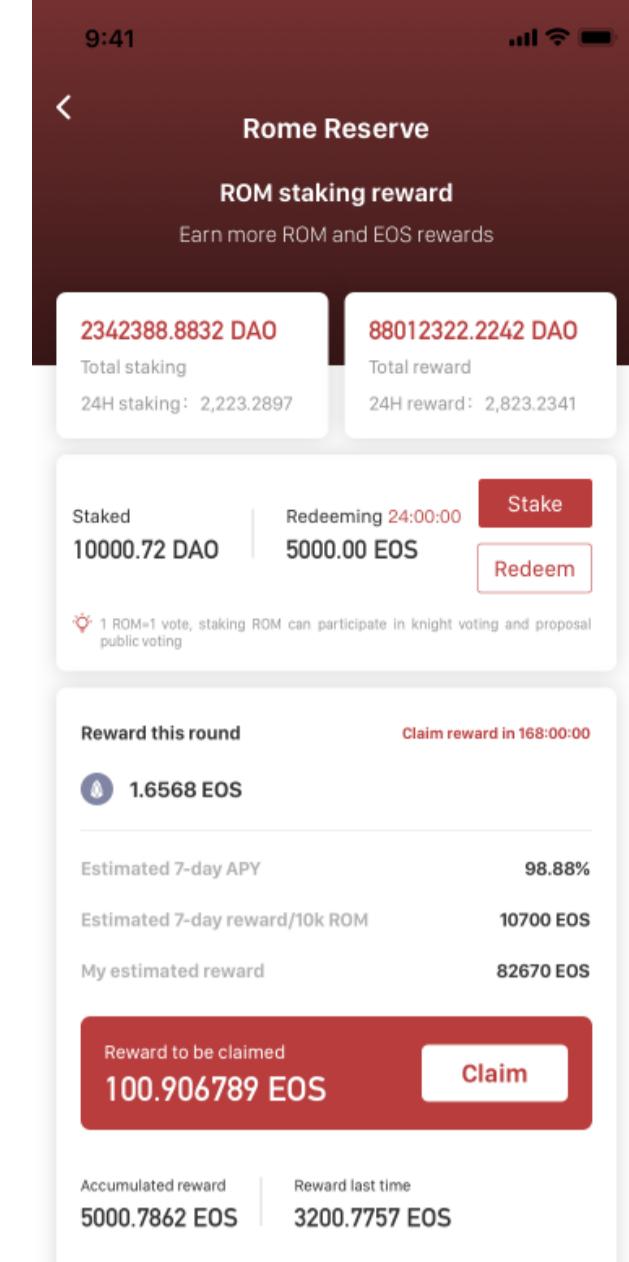
Through RomeDAO, the Rome decentralized autonomous organization, ROM will have the election right and governance right. At the same time, all revenues generated by all protocols of the Rome decentralized financial system will be distributed to all ROM holders through the reserve system "RomeReserve", achieving the complete decentralization. All financial protocols in the Rome decentralized financial system will be empowered around ROM. ROM will integrate governance right, voting right and reward right, becoming the only value source of the Rome decentralized financial system.





1.3 RomeReserve, the Rome decentralized financial reserve system

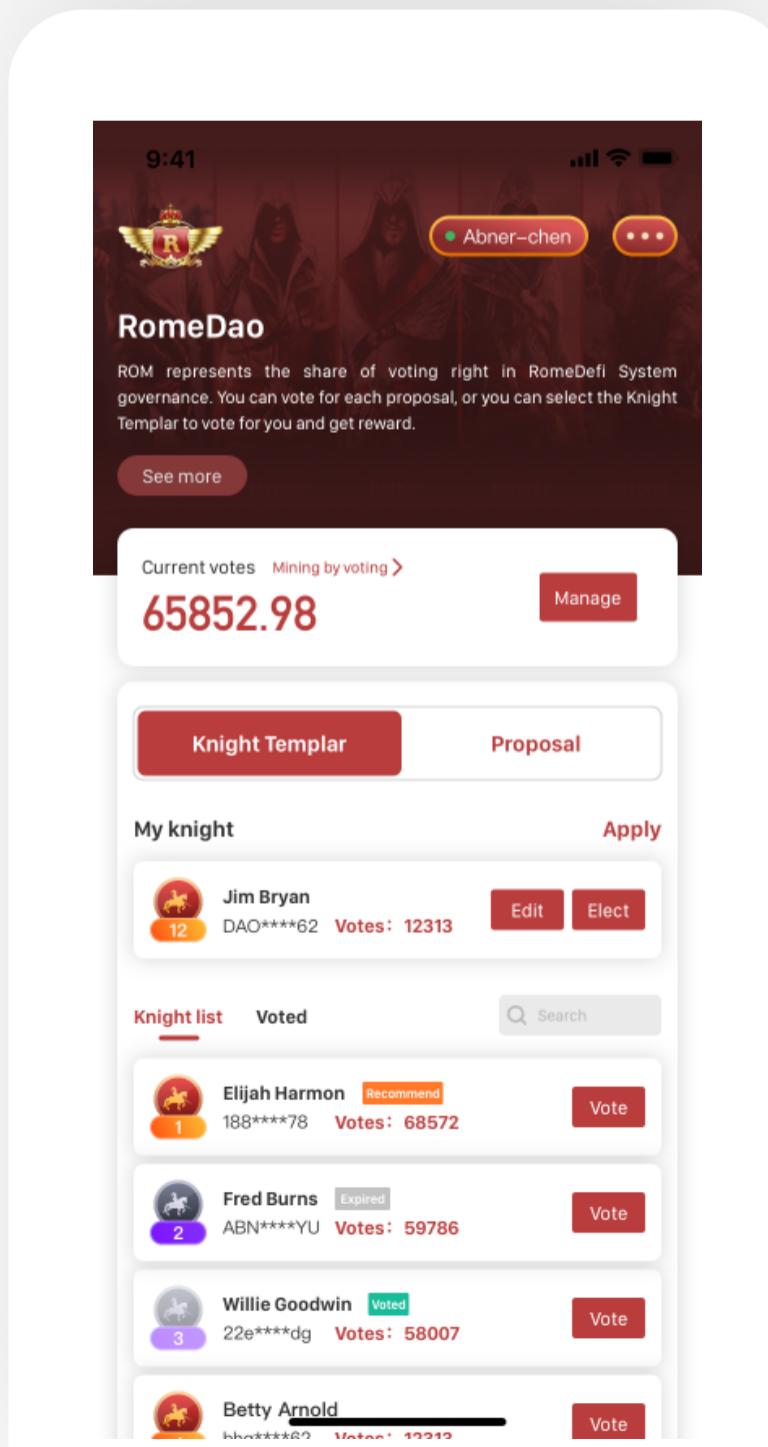
All revenues of all DeFi protocols and decentralized Exchanges in the Rome decentralized financial system (ROMEDEFI SYSTEM) will be transferred to the "RomeReserve", the Rome decentralized financial reserve system, which will be owned by all ROM holders. By implementing the complete DAO decentralized autonomy spirit, realize the decentralization of wealth distribution from the system revenue and the token underlying structure. All revenues of the system will be driven by the token ROM only.



2. The election and responsibilities of the Knights Templar

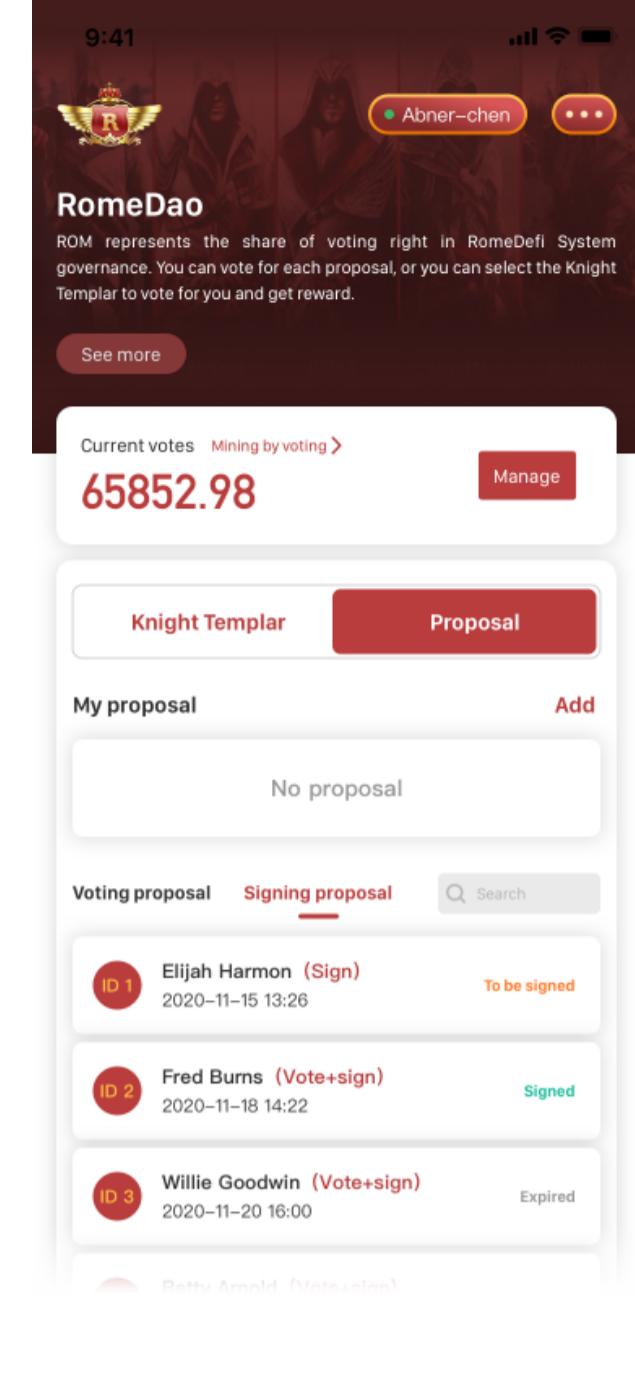
2.1 The composition of the Knights Templar

The Rome Decentralized Financial System (ROMEDEFI SYSTEM) is a globalized and fully decentralized autonomous system that implements the spirit of complete decentralization. RomeDAO will drive the decentralized governance through the Knights Templar. The Knights Templar will be composed of 33 Knights Templar and hundreds of candidate knights all over the world. 33 Knights Templar will be elected by all ROM holders.



2.2 The election rules of the Knights Templar

All ROM holders will obtain the voting right through the RomeReserve system, and 33 Knights Templar will be elected globally by ROM holders. 33 Knights Templar will be elected with the supervision of all ROM holders from hundreds of candidate knights. The ranking of Knights Templar, composed of 33 Knights Templar and hundreds of candidate knights, will change in real time. Only the most powerful Knights Templar can stand out from the candidates and become the elected Knights Templar.

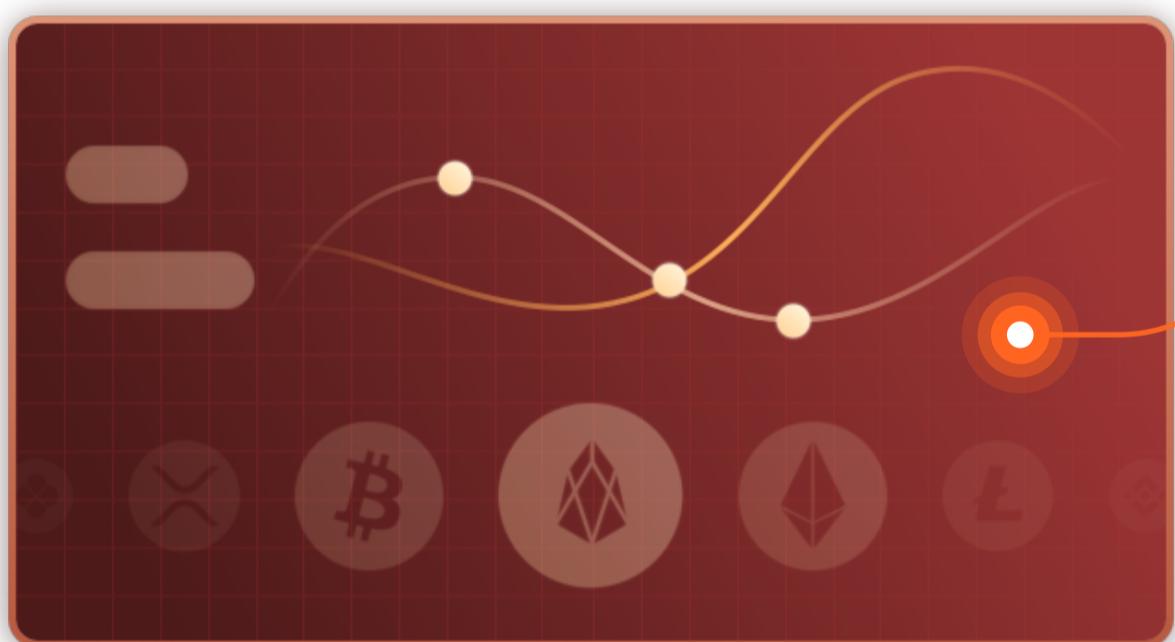


2.3 The rights and responsibilities of the Knights Templar

The Knights Templar, composed of 33 Knights Templar, will represent all ROM holders to exercise the proposal governance right and major decision-making right of the ROMEDFI SYSTEM. All DeFi smart contract protocols deployed in the system will be guarded by the Knights Templar. The updates and changes of system contract will be executed only after 21 of the 33 Knights Templar (21/33) sign them, implementing the complete blockchain decentralized spirit. The Knights Templar will defend the completeness and stability of the Rome decentralized financial system, and guard the sacred and inviolable rights of all ROM holders' private property.

3. Rebuilding the decentralized Rome financial empire based on EOSIO

The Rome decentralized financial system (ROMEDFI SYSTEM) will be realized based on the EOSIO system completely. All DeFi financial protocols and Exchanges are deployed on the EOS mainnet smart contract, which implements the complete decentralization, and data is open and transparent, real-time checkable, witnessed among users and non-tamperable. Rebuild the Rome decentralized empire and revive the glory of the past of Roman empire based on EOSIO. Rome decentralized financial system will promote the large-scale adoption of EOSIO technology and prosper the EOS mainnet ecosystem continuously.

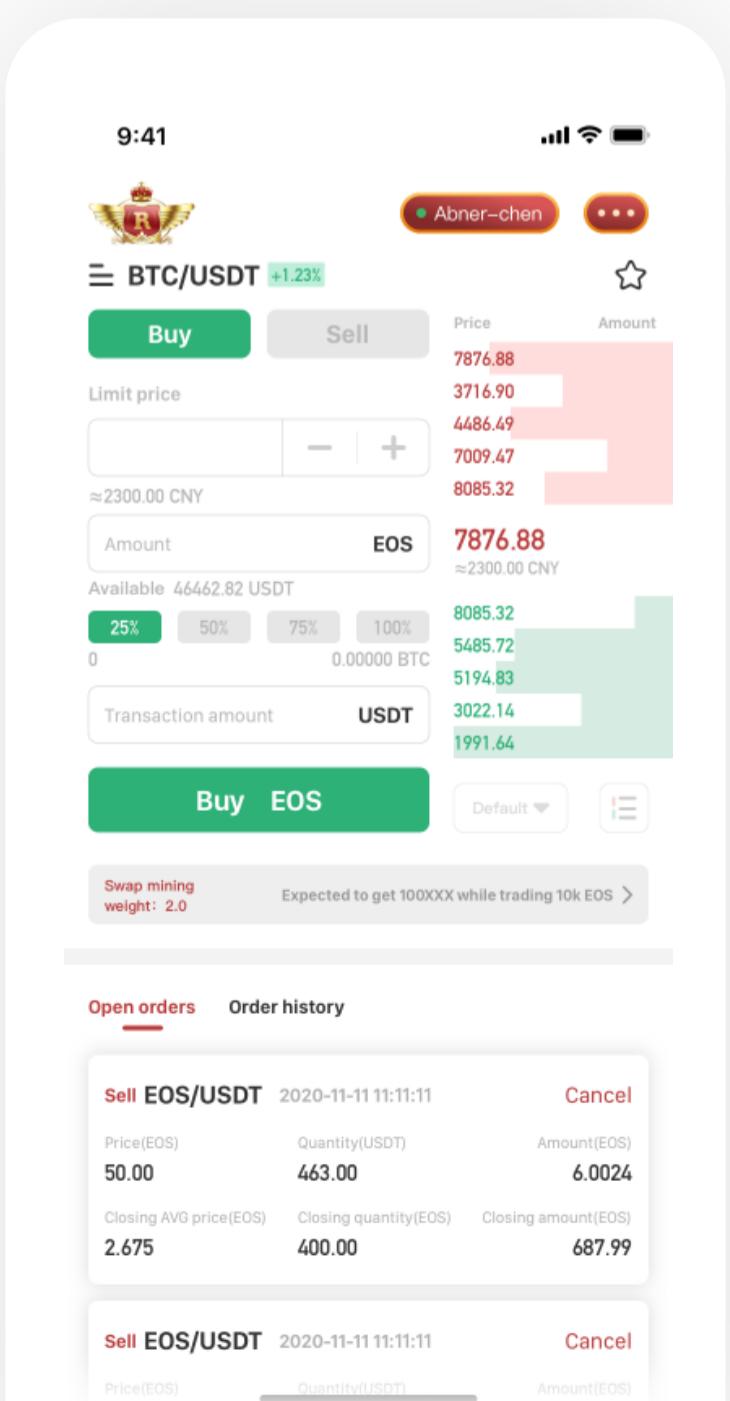


All DeFi financial protocols and Exchanges are deployed on the decentralized blockchain smart contract, and the data is open and transparent, real-time checkable, witnessed among users and non-tamperable.

The composition of Rome decentralized financial system

1. RomeDex, the order-book decentralized Exchange

RomeDex, the order-book decentralized Exchange, deploys smart contract on the EOS mainnet:dex.rome . Rome decentralized financial system will build the world's decentralized spot trading platform RomeDex based on the EOSIO operating system. The system will deploy a high-performance and real-time matching engine based on the EOS mainnet smart contract by using a hierarchical and distributed multi-cluster system structure. The large-scale adoption of smart contract will substantially improve the security, stability and scalability. The RomeDex decentralized Exchange will provide nonstop trading services for global users all the time, and system failure will never happen. Provide users around the world with a safe, stable and smooth trading experience.



The RomeDex operation interface is shown in the picture.



2. RomeSwap, AMM swap Exchange

RomeSwap, AMM swap Exchange, deploys smart contract on the EOS mainnet:swap.rome. Rome decentralized financial system will build the world's Swap protocol based on the EOSIO operating system and will adopt the Constant Product Market Maker Model.

The formula of constant product market maker model: $x * y = k$

Set tokenA as X , tokenB as Y , quantity of tokenA as x and quantity of tokenB as y ;

The quantity of tokenA * the quantity of tokenB is always equal to k , that is

$$x * y = k ;$$

Therefore, it is concluded that getting Δx (quantity) of tokenA by paying Δy (quantity) of tokenB, that is $(x - \Delta x) * (y + \Delta y) = k$;

Let $\alpha = \Delta x / x$, $\beta = \Delta y / y$, and then the equilibrium of Δx , Δy , x and y is expressed as after transaction completed:

$$x^\sigma = x + \Delta x = (1 + \alpha)x = \frac{1}{1 - \beta}x$$

$$y^\sigma = y - \Delta y = \frac{1}{(1 + \alpha)}y = (1 - \beta)y$$

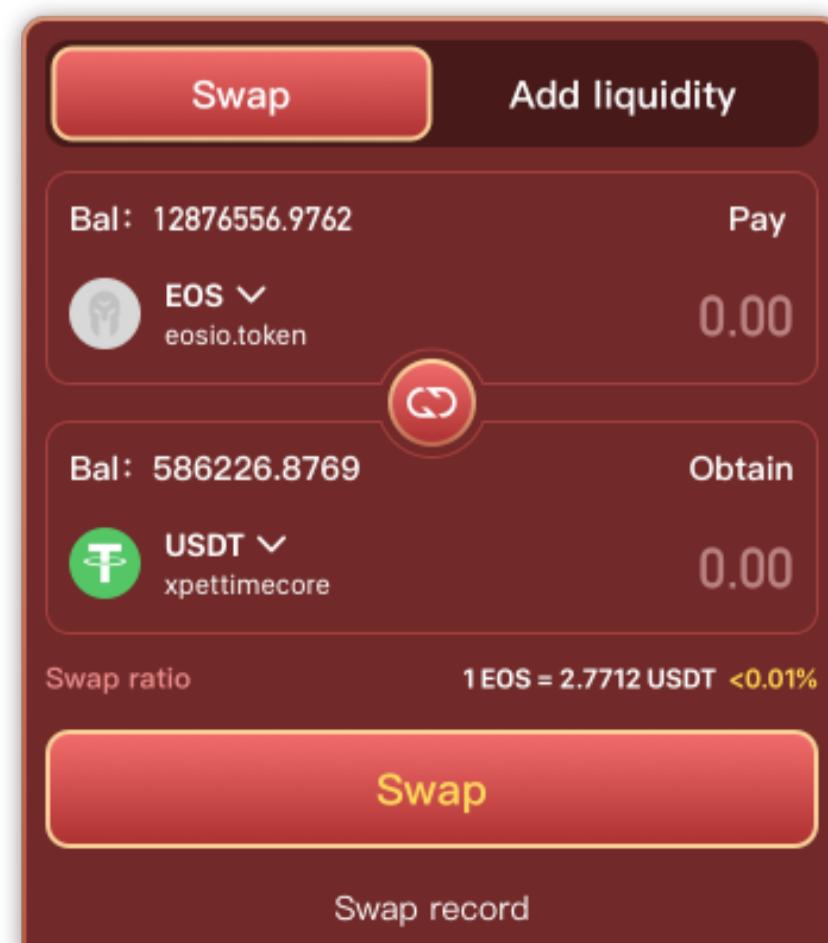
Therefore, $\alpha = \Delta x / x$, $\beta = \Delta y / y$, also can be concluded at the same time:

$$\Delta x = \frac{\beta}{1 - \beta}x$$

$$\Delta y = \frac{\alpha}{1 - \alpha}y$$

Rome decentralized financial system will adopt AMM protocol, namely constant sum market maker (CSMM), to provide the maximum liquidity support for the swap protocol.

The RomeSwap operation interface is shown in the picture.

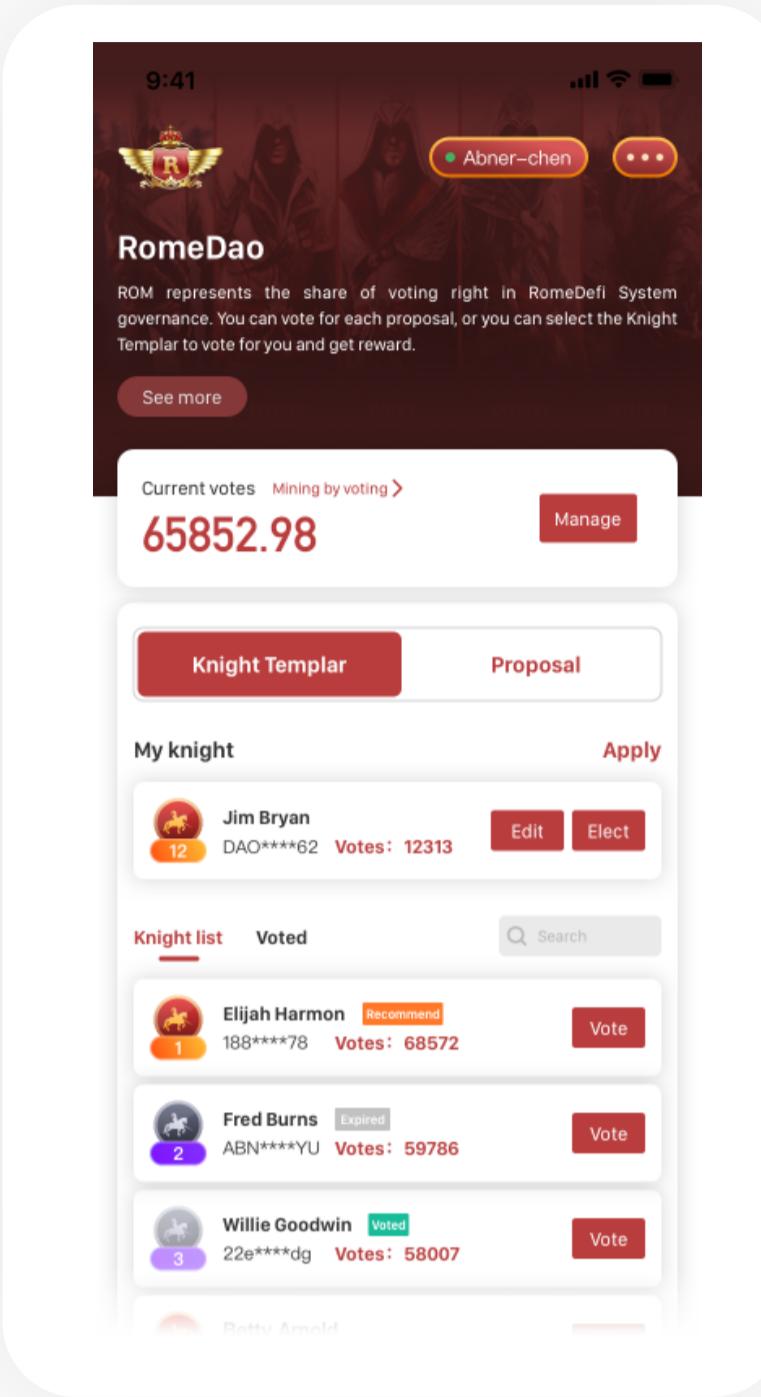




3. RomeDAO, the decentralized autonomous organization and the Knights Templar

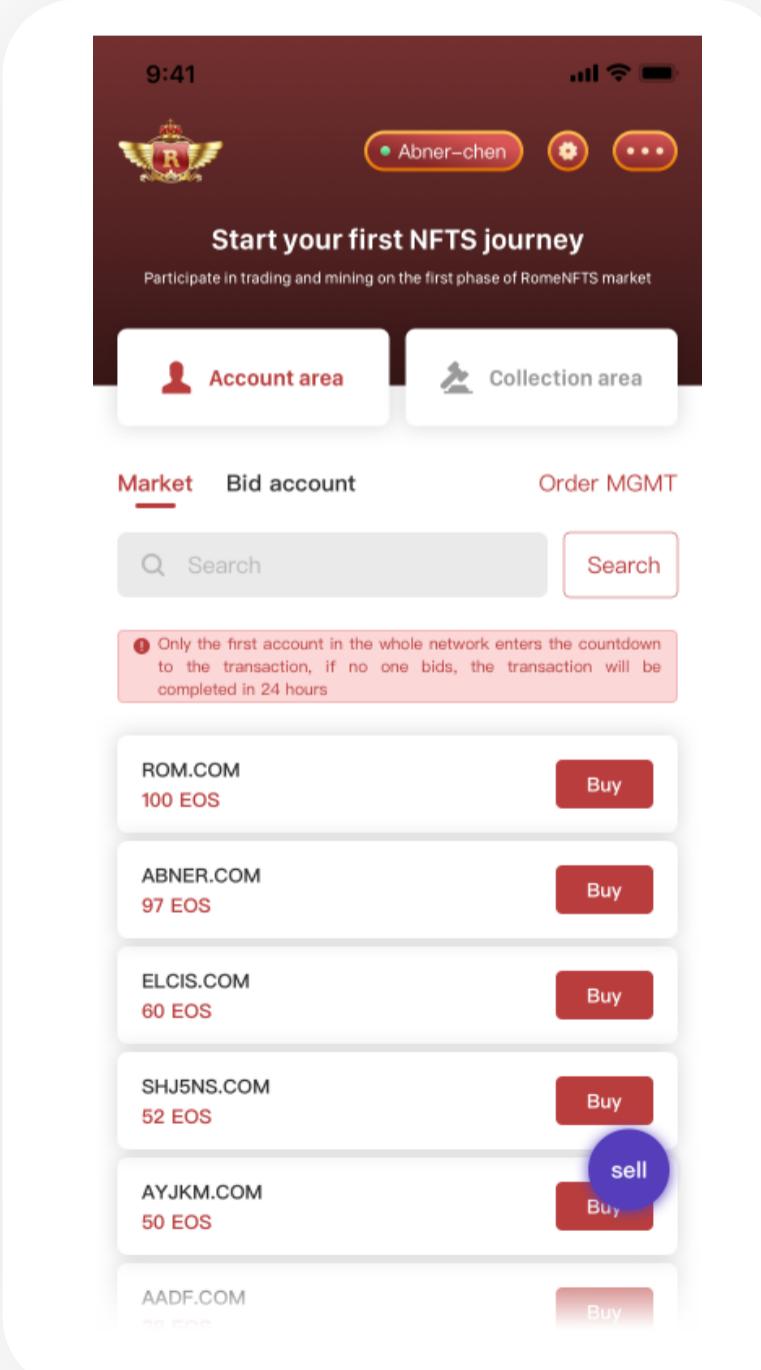
RomeDAO, the decentralized autonomous organization and the Knights Templar, deploys smart contract on the EOS mainnet:dao.rome. The Rome decentralized financial system (ROMEDEFI SYSTEM) is a globalized and fully decentralized autonomous system. RomeDAO will drive the decentralized governance through the Knights Templar. The Knights Templar will be composed of 33 Knights Templar and hundreds of candidate knights around the world, and 33 Templar knights will be elected by all ROM holders. The Knights Templar, composed of 33 Knights Templar, will represent all ROM holders to exercise the proposal governance right and major decision-making right of the ROMEDEFI SYSTEM. All DeFi smart contract protocols deployed in the system will be guarded by the Knights Templar. System contract updates and changes will be executed only after 21 of 33 Knights Templar (21/33) sign them, implementing the complete blockchain decentralized spirit. The Knights Templar will defend the completeness and stability of the Rome decentralized financial system, and guard the sacred and inviolable rights of all ROM holders' private property.

The operation interface of RomeDAO and the Knights Templar is shown in the picture.

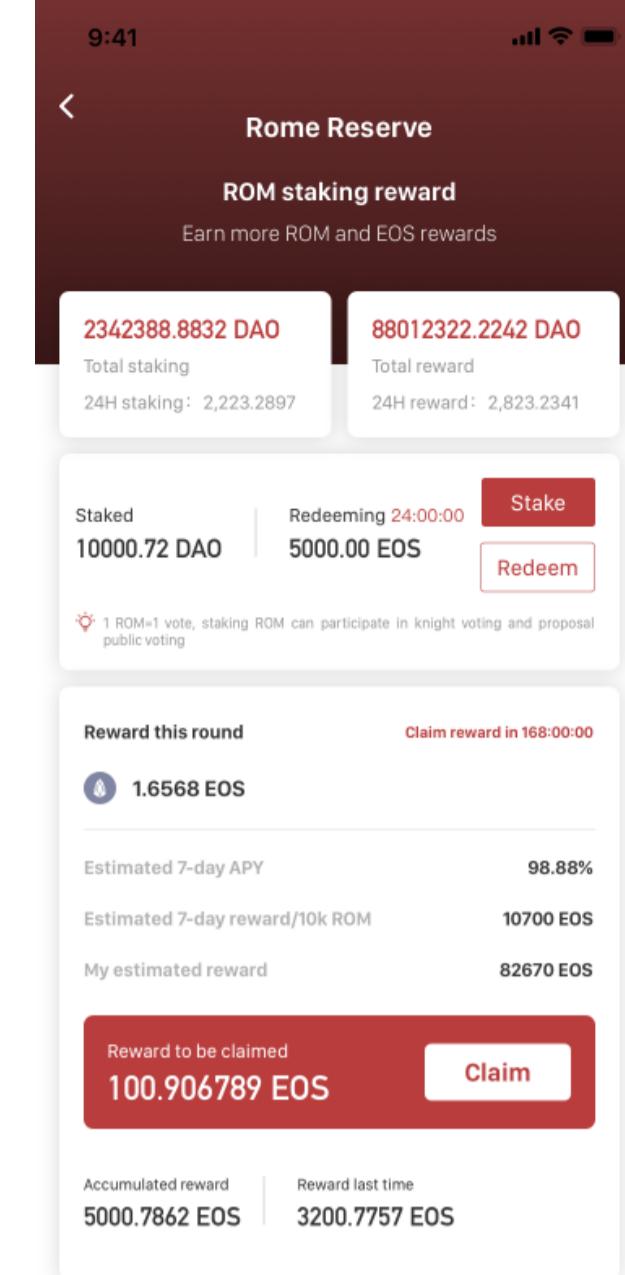


4. RomeNfts, the NFTs collection Exchange

RomeNfts, the NFTs collection Exchange, deploys smart contract on the EOS mainnet:nfts.rome. NFTs (Non-Fungible Tokens) is different from the fungible blockchain tokens, such as BTC, ETH, EOS, etc. NFTs are unique, and each NFT has a unique ID. Therefore, NFTs can realize multi-asset value benchmarking in the IOT off chain, such as real estate, art collections, game equipment, verification information, value expression of abstract objects, etc. Rome NFTs Exchange “RomeNfts” will deploy the following NFTs Exchanges based on the EOS mainnet smart contract and build the world's NFTs trading platform with EOSIO.



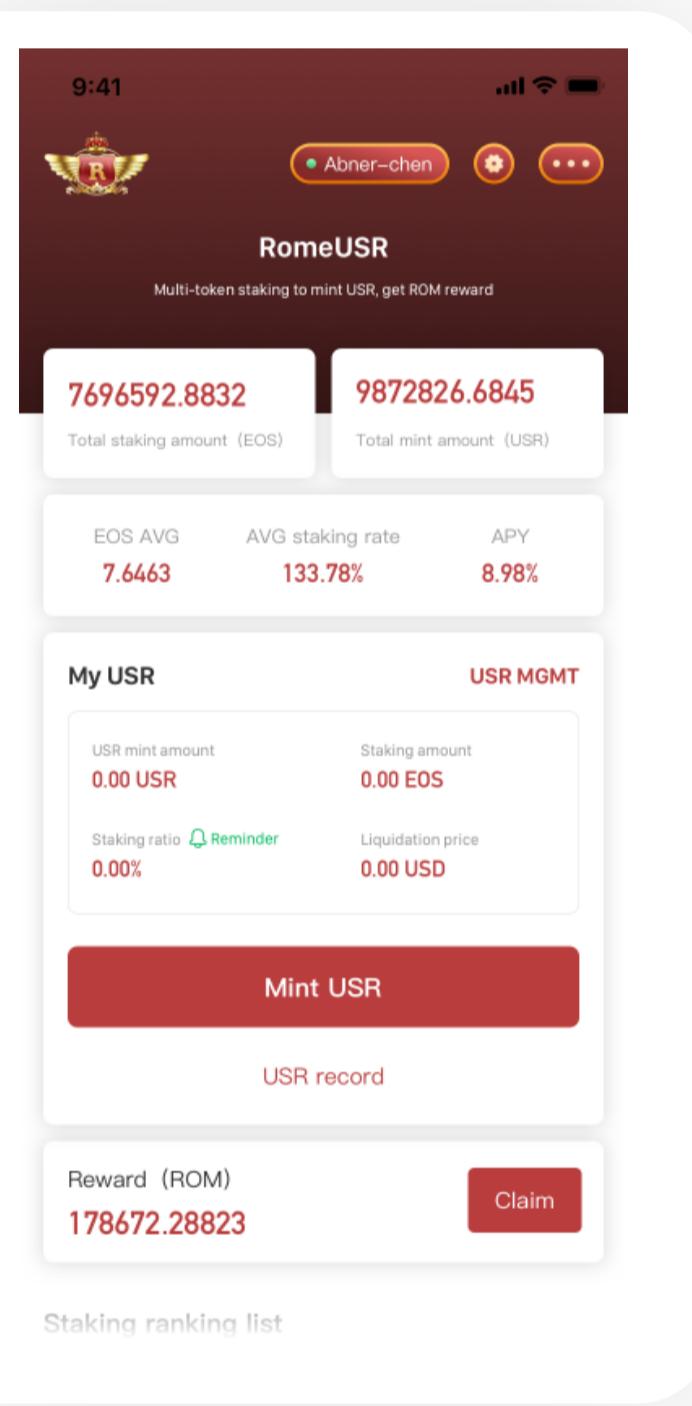
The RomeNfts operation interface is shown in the picture.



5. RomeReserve, the Rome decentralized financial reserve system

RomeReserve, the Rome decentralized financial reserve system, deploys smart contract on the EOS mainnet:reserve.rome. All revenues of all DeFi protocols and decentralized Exchanges in the Rome decentralized financial system (ROMEDEFI SYSTEM) will be transferred to the "RomeReserve", the Rome decentralized financial reserve system, which will be owned by all ROM holders. By implementing the complete DAO decentralized autonomy spirit, realize the decentralization of wealth distribution from the system revenue and the token underlying structure. All revenues of the system will be driven by the token ROM only.

The RomeReserve operation interface is shown in the picture.



6. RomeUSR, the decentralized stable coin protocol

RomeUSR, the Rome decentralized stable coin protocol, deploys smart contract on the EOS mainnet:usr.rome. RomeUSR will create a universally circulated minted stable coin USR by staking. USR will 1:1 peg to USD, and minting USR by staking assets is supported (only support staking EOS and ROM to mint USR in the first phase). The decentralized stable coin USR will bring the bran-new experience. Any accepted staking cryptocurrency will be stored in usr.rome smart contract in swap for the newly issued stable coin USR, using the transparency and accessibility of the decentralized blockchain to create liquidity autonomy for users. Compared with centralized stable coins, the decentralized stable coin USR trusted by machine can provide higher business transparency.

The RomeUSR operation interface is shown in the picture.

7. RomePool, the decentralized mining pool

RomePool, the Rome decentralized mining pool, deploys smart contract on the EOS mainnet:pool.rome. RomePool will represent the Rome decentralized financial system to participate in the EOS mainnet BP election. The Knights Templar, composed of 33 Knights Templar from all over the world, will promote the large-scale adoption of EOSIO blockchain technology, and defend the complete and stable operation of the EOS mainnet system. The Knights Templar will prosper the EOS mainnet ecosystem continuously.

Aiming at the new resource model of the EOSIO mainnet: the purpose of the transition from the resource right model to the leasing model is to eliminate the influence of the speculation market on resource pricing. The introduction of leasing market that the pricing is based on the overall resource utilization will make the distribution of resources more predictable and reliable.



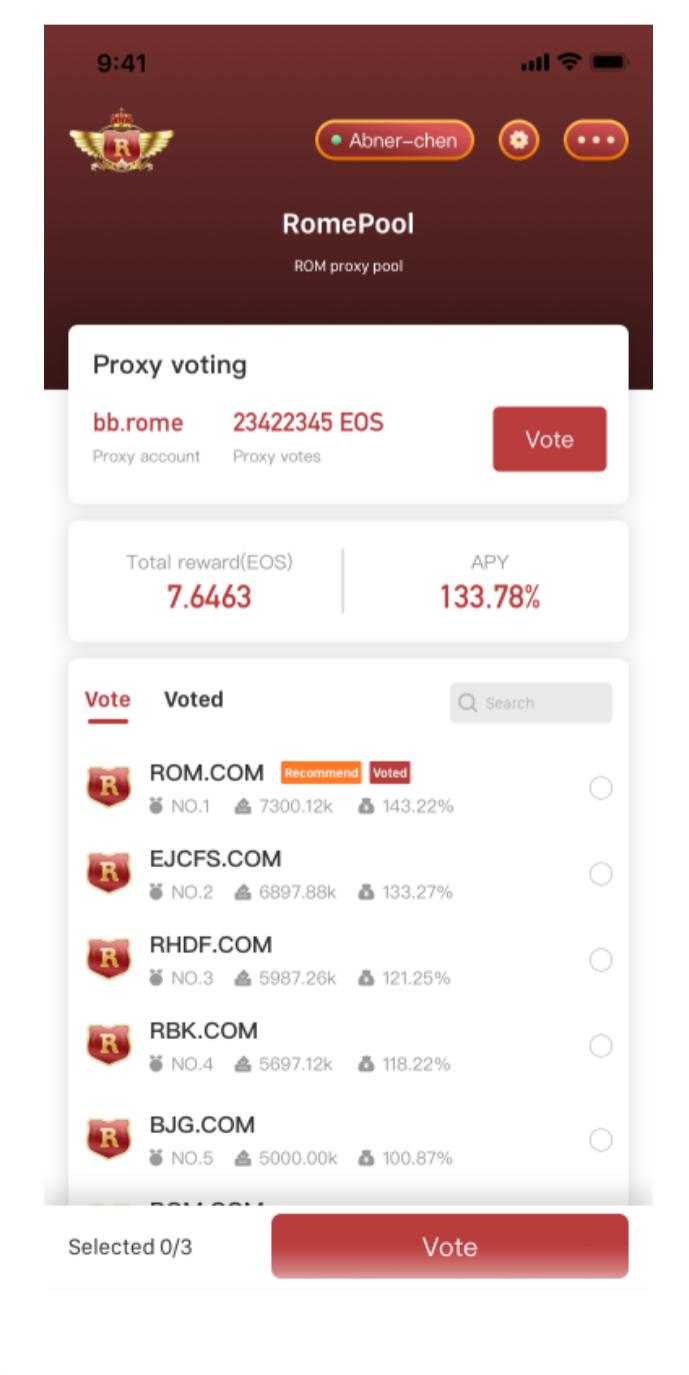
Figure 2: An example fee curve showing how price (which is the slope of the curve) increases with greater network utilization, along with a representation of how the change in utilization is used to derive the rental fee.

The example curve shows how prices increase as the network utilization increases (based on adjusted utilization in this case). Although there are abundant resources available, the price of CPU/NET is relatively low. But as the utilization reaches its maximum value, the price rises rapidly. The price is determined by the difference between the network utilization before buying rents and the new resource utilization based on the rents scale. For example, if a user wants to get 5% of CPU/net supply within 30 days, he needs to pay:

$$\text{Max}(P(\text{InsUtilization}) + 5\%), P(\text{AdjustedUtilization} + 5\%) - \text{Max}(P(\text{InsUtilization}), P(\text{AdjustedUtilization}))$$

The Rome Knights Templar will deploy them on the testnet in time to help the EOS mainnet implement the best resource model solutions.

The RomePool operation interface is shown in the picture.



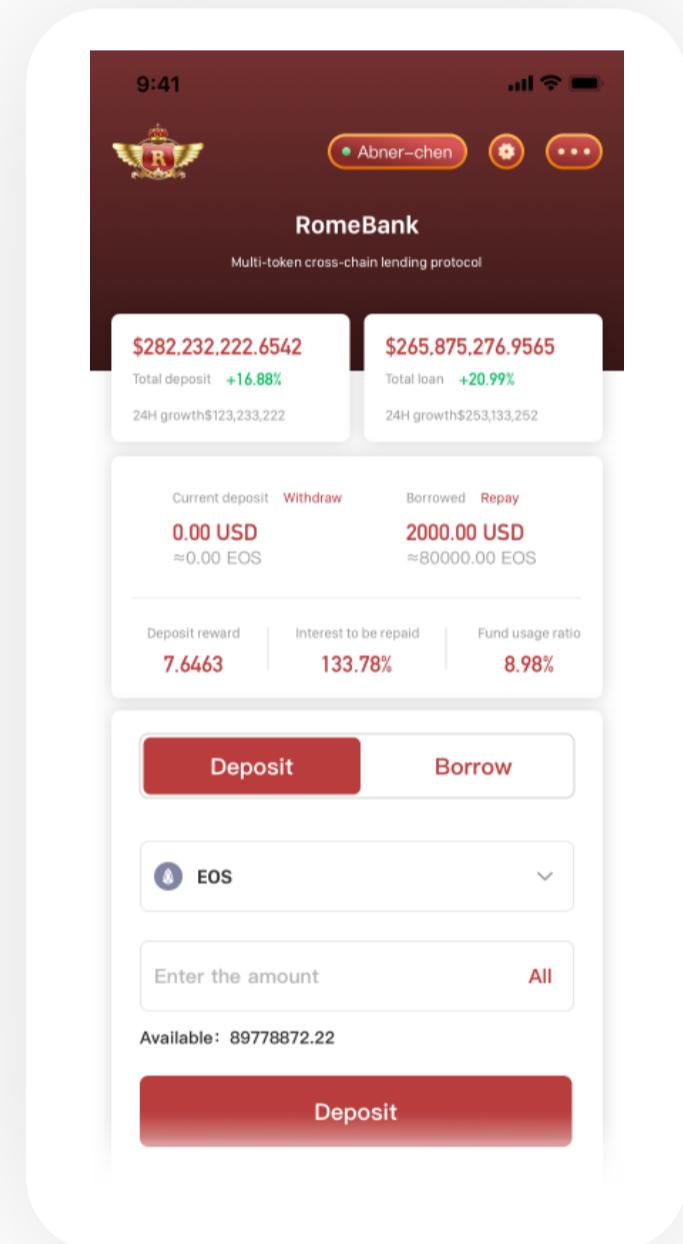


8. RomeBank, the decentralized bank protocol

RomeBank, the Rome decentralized bank protocol, deploys smart contract on the EOS mainnet:bank.rome. RomeBank will replicate traditional commercial banking services on the EOS mainnet. By using the powerful performance of the EOSIO blockchain system, the current automatic asset business of commercial banks is realized in the form of smart contract. From the fund pool operation model derived from the asset business, the deposits from various channels are put into the contract fund pool in the form of smart contract, and funds are taken from the system fund pool to lend the demand side. The smart contract can manage well the surplus and loan risks in the system fund pool to keep normal operation of the model.

- **1/ Satisfy the fund demand of trading activities: including trading activities such as interest arbitrage, leverage and market making. Both parties can add leverage through RomeBank borrowings, or borrow assets for short selling to do interest arbitrage.**
- **2/ System users obtain passive revenues: long-term token holders can obtain passive and stable revenue continuously through RomeBank.**
- **3/ Meet the fund demand of DeFi liquidity mining protocol and other token economic activities with flexible period.**

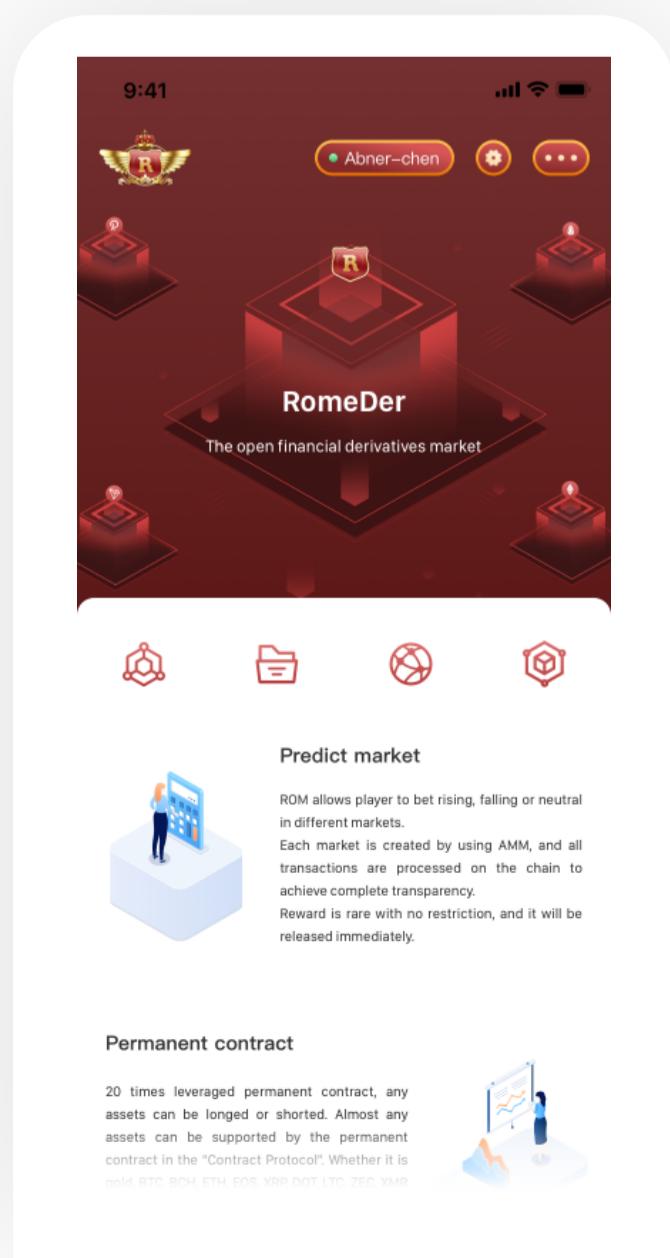
The RomeBank operation interface is shown in the picture.



9. RomeDer, the decentralized financial derivatives Exchange

RomeDer, the Rome decentralized financial derivatives Exchange, deploys smart contract on the EOS mainnet:der.rome. Derivatives refer to things derived from original things. Financial derivatives are derived from spot trading. They are one kind of bilateral contract related to swapping spot flows or risk transfer for both transaction parties, such as forward contracts, futures, options, swaps, etc., including but not limited to CDP, ABS, CDO, stock index futures, interest rate futures, exchange rate futures, etc. RomeDer will build the world's derivatives futures Exchange based on EOSIO. The fully decentralized smart contract will obtain the machine trust that guarantees the liquidation process. While providing good liquidity, the smart contract can ensure that the data is open, transparent, checkable, witnessed among users and non-tamperable.

The RomeDer operation interface is shown in the picture.

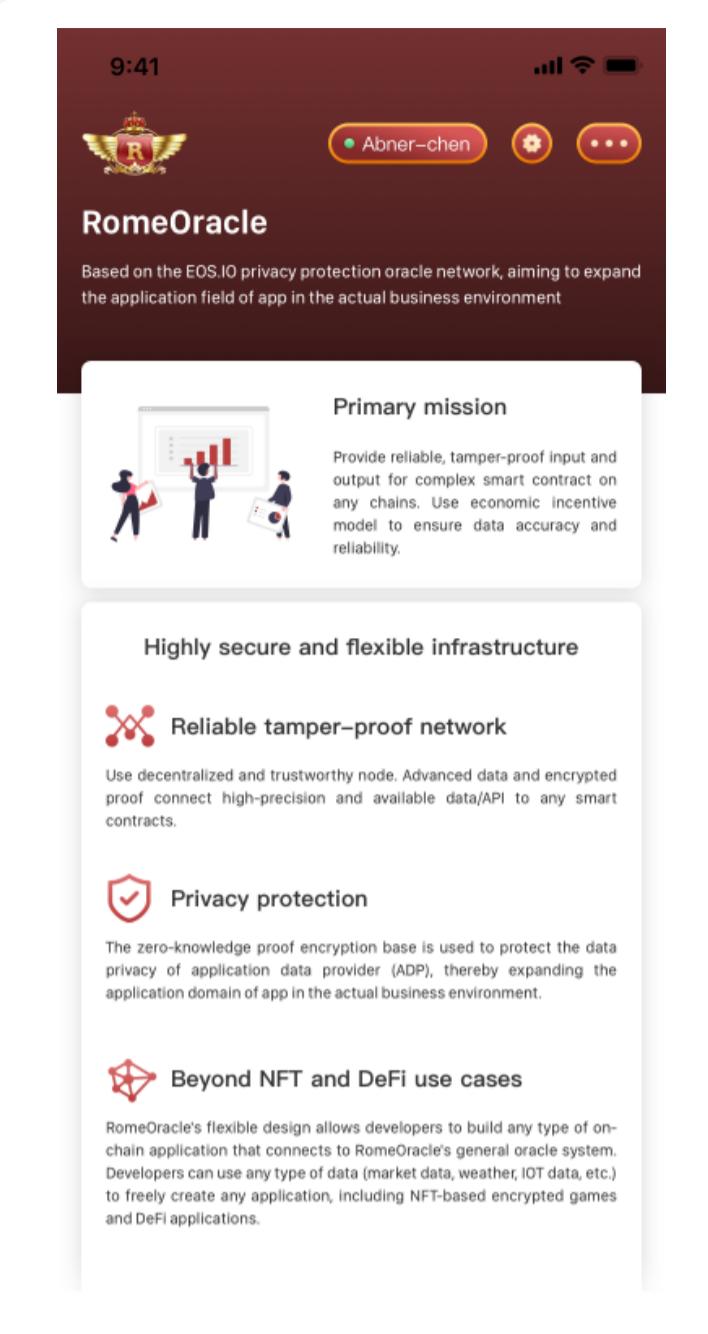




10. RomeOracle, the decentralized oracle system

RomeOracle, the decentralized oracle system, deploys smart contract on the EOS mainnet:oracle.rome. RomeOracle provides reliable, tamper-proof input and output for any complex smart contract on the chain based on the EOSIO privacy-protected oracle network. The economic incentive model is used to ensure the accuracy and reliability of the data, and the decentralized and trustworthy input source nodes are used to provide a high-precision and high-reliability price-feed system for any smart contracts.

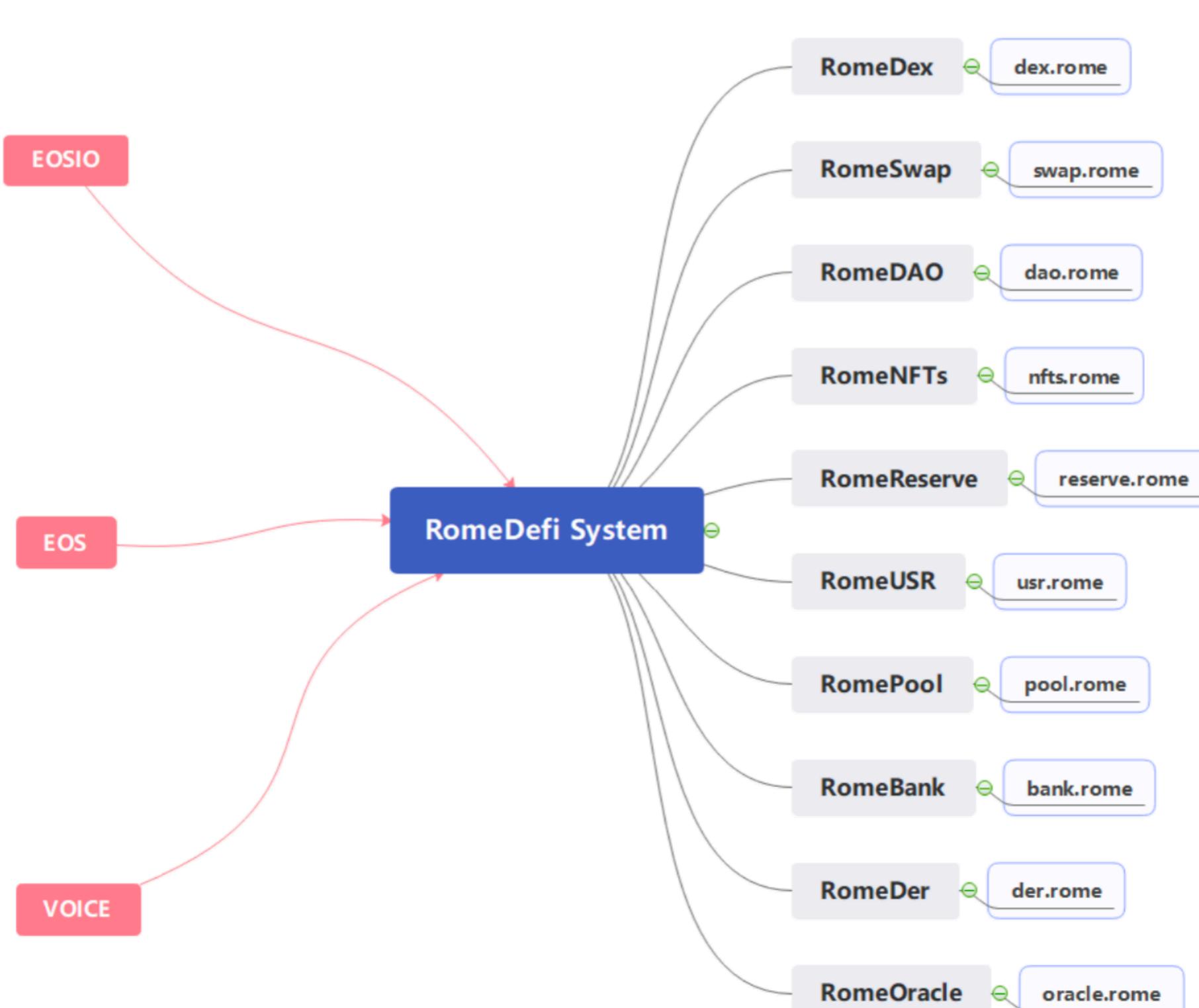
The RomeOracle operation interface is shown in the picture.



11. The full view of the decentralized financial system and more follow-up protocols

The Rome decentralized financial system will be fully deployed on the EOSIO system, and all DeFi smart contracts will be deployed and run on the EOS mainnet. The Knights Templar, composed of 33 Knights Templar, will represent all ROM holders to exercise the proposal governance right and major decision-making right of the ROMEDIFI SYSTEM. All DeFi smart contract protocols deployed in the system will be guarded by the Knights Templar. The updates and changes of system contract will be executed only after 21 of the 33 Knights Templar (21/33) sign them, implementing the complete blockchain decentralized spirit.

The Rome decentralized financial system is committed to the popularization and promotion of VOICE decentralized social platform, which will help the large-scale adoption of VOICE at the trading level. The Knights Templar will investigate and deploy subsequent DeFi protocols based on actual conditions, including but not limited to cross-chain asset protocol, decentralized ID protocol, decentralized on-chain data service protocol, etc.





The token model of Rome decentralized financial system

All DeFi protocols and decentralized Exchanges in the Rome decentralized financial system (ROMEDEFI SYSTEM) will be driven by a unique token ROM only, and ROM will be issued based on the EOSIO system mainnet contract.

Through RomeDAO, the Rome decentralized autonomous organization, ROM will have the election right and governance right. At the same time, all revenues generated by all protocols of the Rome decentralized financial system will be distributed to all ROM holders through the reserve system "RomeReserve", achieving the complete decentralization. All financial protocols in the Rome decentralized financial system will be empowered around ROM. ROM will integrate governance right, voting right and reward right, becoming the only value source of the Rome decentralized financial system.

Issue account:issue.rom. The initial supply is 100 million, the initial supply period is 72 months (six years), and the output is halved every 18 months. The first 18-month period will produce 50 million ROM, and the second 18-month period will produce 25 million ROM, and so on. The final total supply, supply period and period output will be determined by all ROM holders. Prior to this, the Knights Templar will prohibit all smart contract accounts and wait for all ROM holders to determine the final total supply of ROM, whether to adopt the deflation proposal and whether to open the trading and the circulation.

Union account: union.rom. For every 100 ROM issued, 20% of them will be distributed to the union account. RomeDefi-Union, the Rome decentralized financial system Union, is a global decentralized non-profit organization that aims to promote the blockchain spirit. The Union supports the large-scale adoption of EOSIO, and will prosper the EOS ecosystem continuously. As a non-profit organization, the Union will give consulting advice and related assistance to the Rome decentralized financial system in contract security audits, promotion and operation, risk prevention, legal relations, technology development, etc.

Developer account: develop.rom. For every 100 ROM issued, 10% of them will be distributed to the developer community account. RomeDefi-Developers, the Rome decentralized financial system developer community, is a non-profit community organization composed of blockchain development enthusiasts from all over the world. The developer community will hold hackathon at irregular intervals around the world, launch bug-bounty programs, and defend the safe and stable operation as well as continuously efficient development and deployment of Rome decentralized financial system.

Mining account:MINE.rom. For every 100 ROM issued, 70% of them will be distributed to the mining accounts, which will be distributed to the following DeFi protocols for mining incentives:

dex.rom: Decentralized order-book trading mining incentives;

swap.rom: Decentralized swap protocol mining incentives;

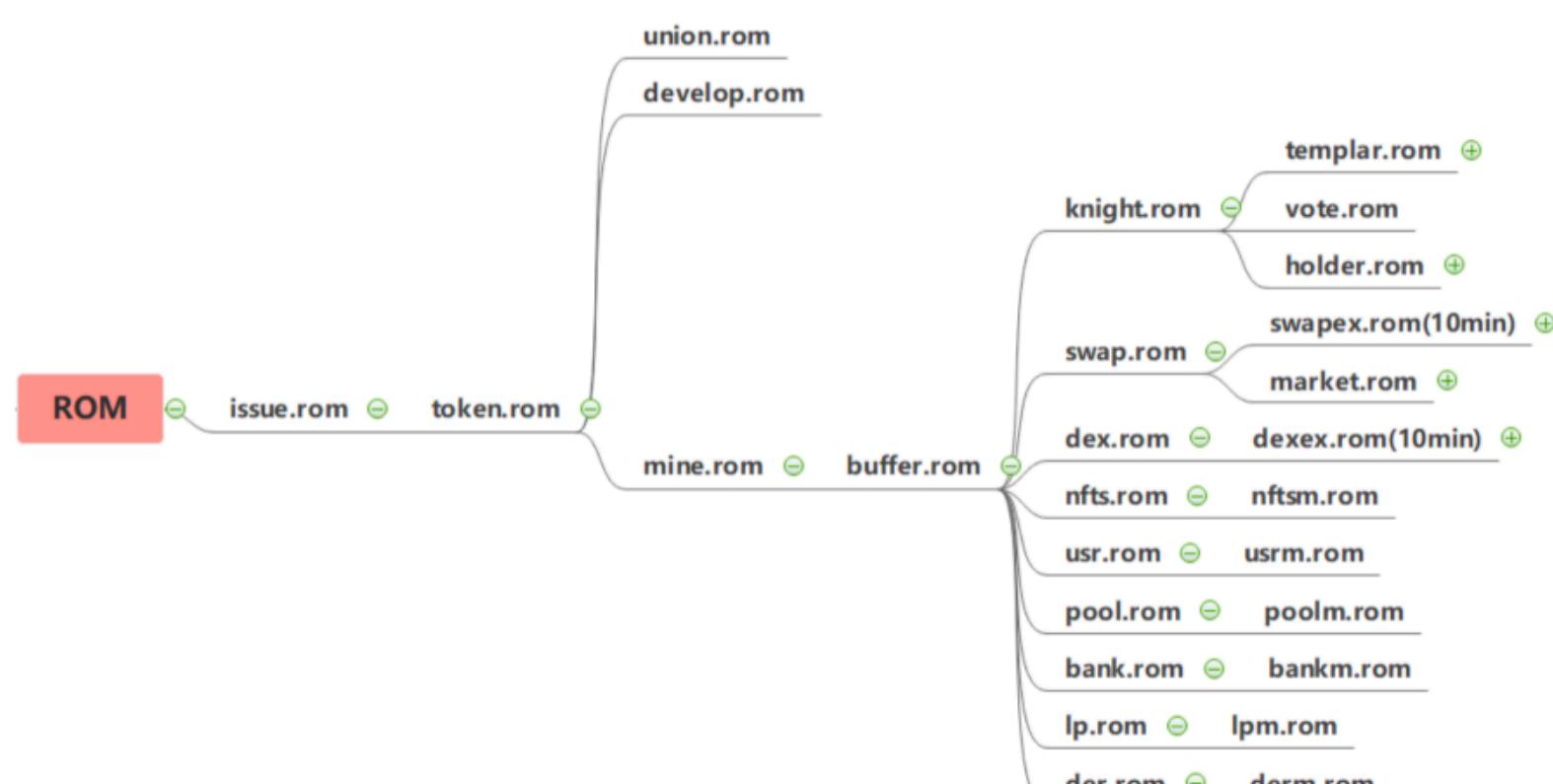
dao.rom: Elected Knights Templar mining incentives and ROM holders voting mining reward;

nfts.rom: NFTs collection trading mining incentives;

usr.rom: Decentralized stable coin protocol USR minting mining incentive;

With the continuous improvement of Rome decentralized financial system and the deployment of DeFi protocols, more mining incentives for the DeFi protocol will be supported.

The full view of the only token ROM of Rome decentralized financial system is shown in the picture.





The summary and outlook of Rome decentralized financial system

In the "Declaration of the Rights of Man and of the Citizen" during the French Revolution, freedom was defined as, "Freedom is the right to do anything harmless to others." The Rome decentralized financial system (ROMEDEFI SYSTEM) implements the spirit of complete blockchain decentralization as the completely decentralized global autonomous system. The election and governance of the Knights Templar are implemented through RomeDAO, the Rome decentralized autonomous organization. Through the reserve system "RomeReserve", all revenues generated by all protocols in the Rome decentralized financial system will be distributed to all ROM holders to achieve complete decentralized distribution. All financial protocols in the Rome decentralized financial system will be empowered around ROM. ROM will integrate governance right, voting right and reward right, becoming the only value source of the Rome decentralized financial system.

The RomeDefi System will campaign for the EOS BP and rebuild the Rome decentralized empire based on EOSIO. With the vision of reviving the glory of the past of Roman empire, the system is committed to promoting the large-scale adoption of EOSIO technology and prospering the EOS mainnet ecosystem.



Disclaimer

This document is only used to convey information, and does not constitute an opinion on investing, buying or selling ROM or other tokens in the system. The above information does not constitute investment advice or investment decision. Once you participate in the project, it means that you understand and accept the risks of the project, and are willing to bear all the corresponding consequences and responsibilities for this.

RomeDefi System is a globalized decentralized non-profit organization that aims to make social practices for a better society. Any subject or individual involved in the practice needs to understand the risks of the project, and RomeDefi System does not bear any direct or indirect losses caused by participating in the project. ROM may cause short-term wide price fluctuations due to the automatic reaction, popularity or irrationality of the market after the project is launched a period of time. RomeDefi System recommends that everyone treat the project risks rationally. Discreet investment is suggested for the risk of the cryptocurrency market.