



The Most Familiar and Important Existence for You

PLANET – Virtual Banking System



Overview of Virtual Banking System **Architecture**

PLANET Enterprise Banking System is a highly reliable system built on the very trustworthy Hyperledger.

- **Membership Service**

The membership service manages personal information, privacy, confidentiality, and auditability on your network.

- **Blockchain Service**

The blockchain service manages Hyperledger via a peer-to-peer protocol built on HTTP/2. The data structure is highly optimized and provides the most efficient hashing algorithm for maintaining data distribution and replication.

- **Chain code Service**

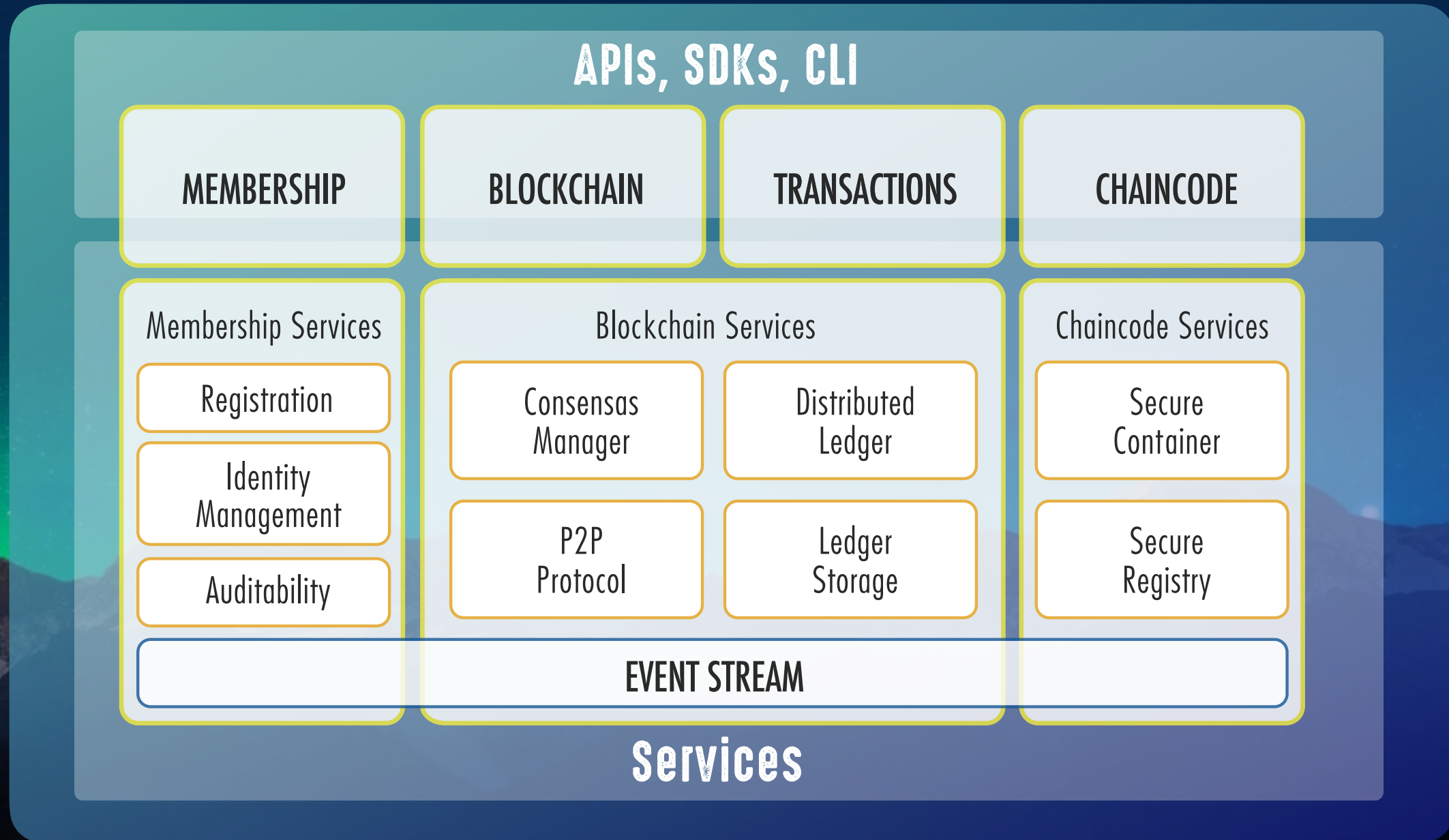
The Chain code service provides a safe and easy way through sandboxing chain code on authentication node.

- **Ledger Service**

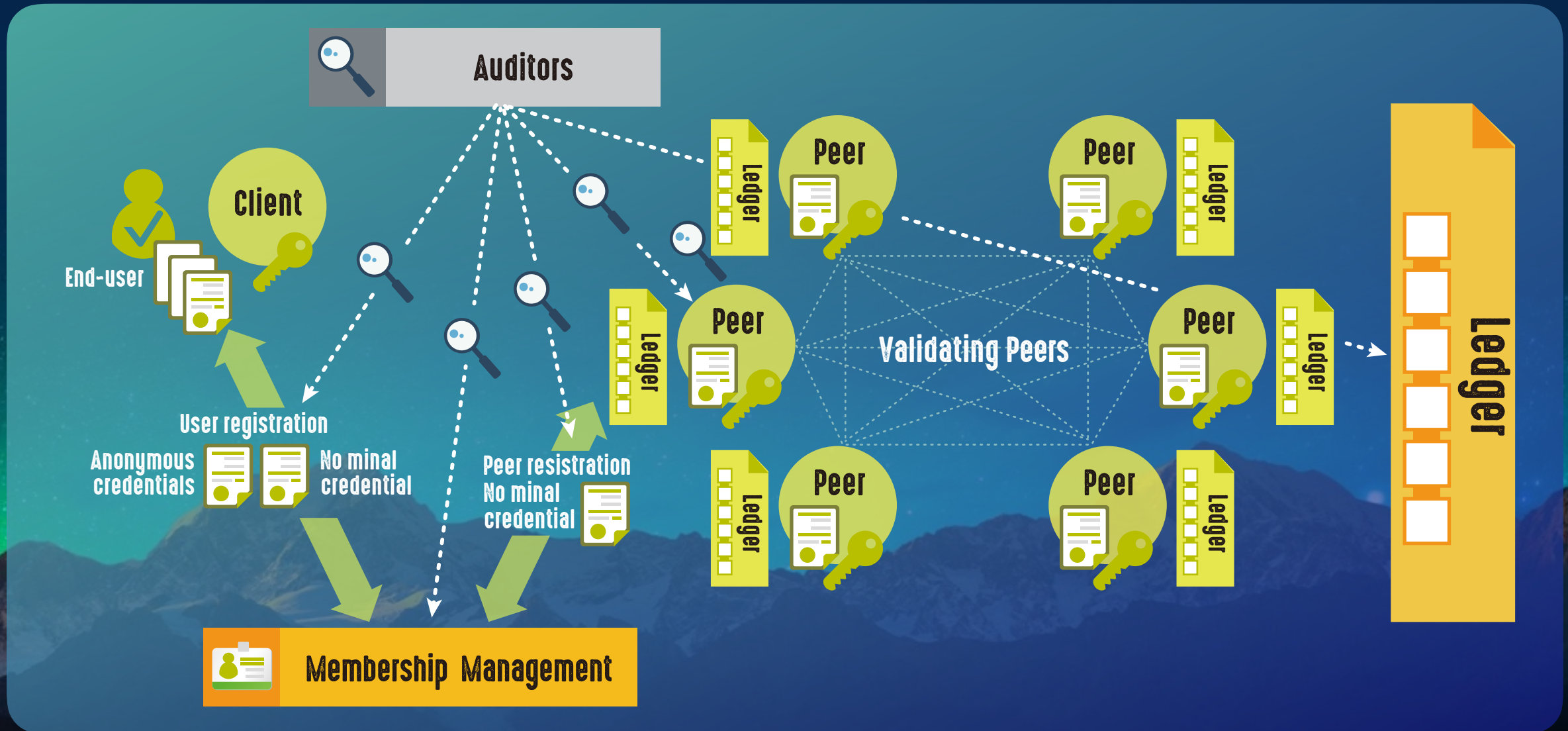
Hyperledger (Linux Foundation) uses a reliable open source distributed ledger.




Overview of Virtual Banking System **Architecture**



Overview of Virtual Banking System Architecture



Overview of Virtual Banking System **User Interface 1**



Welcome back
Login to your account.


* Username:

* Private key:

Don't have an account? Click to [sign up](#)
Or visit the [Block Scan](#) directly.

LOGIN

Users could choose a nickname to create an account, which makes the distributed ledger system easier to use. The private key is used for login. By using a private key, users could use a combination of login ID and password log in anywhere in the world without managing the database.



Register a New Account
Fill out the form to get started.

* Username:

* Public key:

Already have an account? Click to [log in](#)
Or visit the [Block Scan](#) directly.

REGISTER

The private key uses the same algorithm as Bitcoin. Users could create an account by using the public key generated from the private key.



Overview of Virtual Banking System

User Interface 2

The screenshot shows the 'Send' form in the FLANET User Interface. The left sidebar contains links for Dashboard, Users, User Review, Send (highlighted), Block Scan, and Logout. The main content area has tabs for HISTORY and SEND. The SEND form includes fields for 'To' (Please enter the to account id), 'Amount' (Please enter the to asset amount), 'Message' (Please enter the message), and 'Private key' (Please enter your private key). A large orange 'SEND' button is at the bottom.

Digital assets remittance:
Users could transfer assets to a nickname account by using the private key.

The screenshot shows the 'User page' in the FLANET User Interface. The left sidebar contains links for Dashboard, Users (highlighted), User Review, Wallet, Block Scan, and Logout. The main content area has a 'User page' header with a 'Show user details' link and an 'Account type' dropdown. Below are two sections: 'Assets List' and 'Transactions History'.

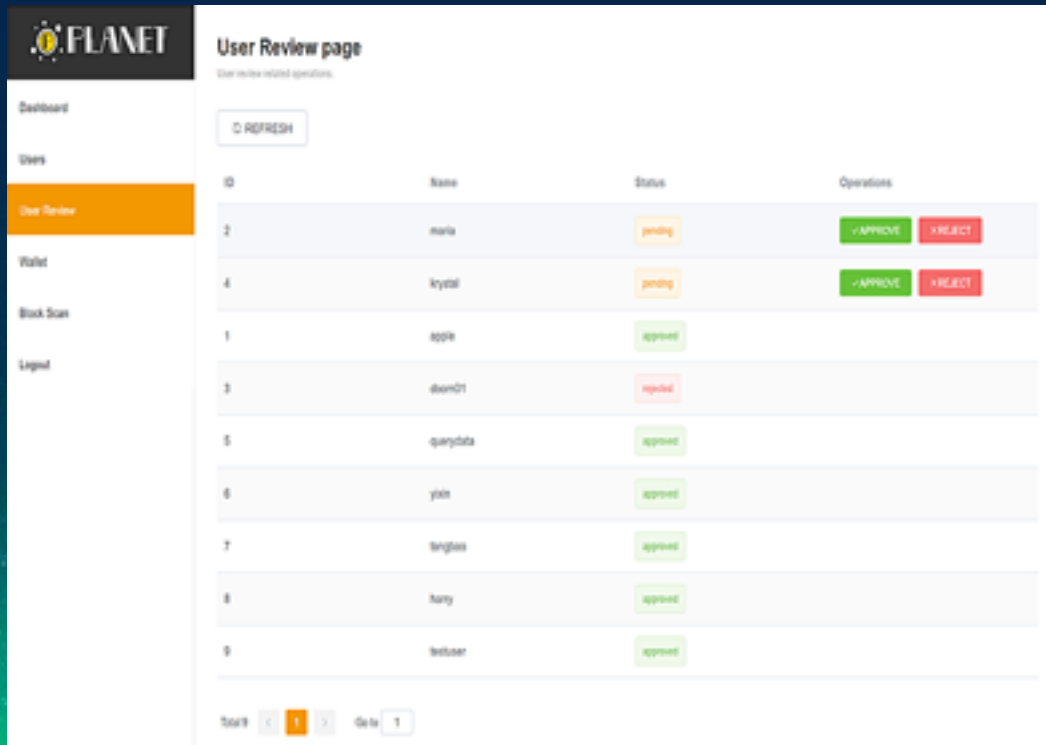
AssetId	Balance
pla	100

From	To	Amount	Currency	Message	Date
apple	john	1	pla		August 20, 2020 16:33:07
admin	apple	1	pla	REFUND TRANSACTION	August 19, 2020 18:00:11
admin	apple	1	pla	REFUND TRANSACTION	August 19, 2020 17:58:44
admin	apple	1	pla	REFUND TRANSACTION	August 19, 2020 17:54:54
admin	apple	100	pla		August 19, 2020 17:53:57

After logging in, users could view the status of digital assets and transactions records. In addition to PLA, BTC and ETH, prepaid payment point transition are also supported.

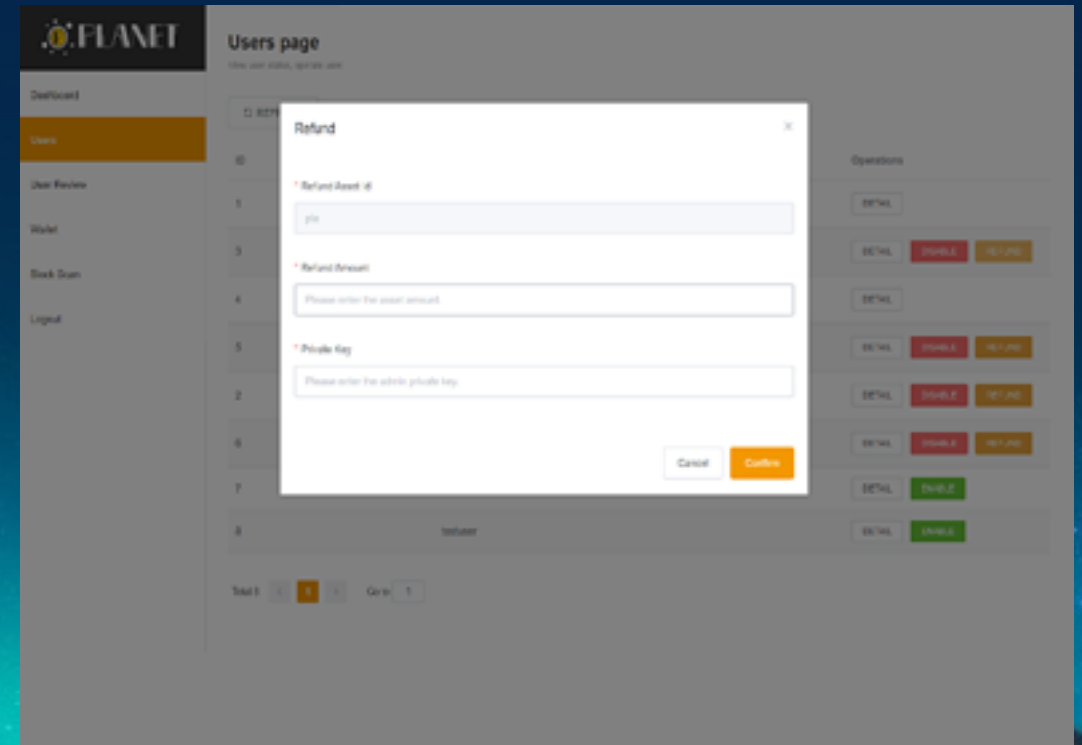


Overview of Virtual Banking System Admin Interface 1



ID	Name	Status	Operations
2	maria	pending	<button>APPROVE</button> <button>REJECT</button>
4	krystal	pending	<button>APPROVE</button> <button>REJECT</button>
1	apple	approved	
3	diamond	rejected	
5	querydata	approved	
6	yoan	approved	
7	longines	approved	
8	harry	approved	
9	testuser	approved	

The administrator can approve user account registration using the super key (private key for administrator).
The super key is multi-signature compatible and supports multiple approvals.



Refund function:
If users made a mistake or have a problem with a remittance, users could disable the remittance or perform a refund process.
The refund process requires an admin super key.



Overview of Virtual Banking System Admin Interface 2

Block	Transaction Count	Time
41	1 Transaction	August 20, 2020 14:14:52
40	1 Transaction	August 20, 2020 14:14:48
39	1 Transaction	August 20, 2020 14:14:02
38	1 Transaction	August 20, 2020 14:12:56

Txid	Block	Creator	Time
e1b0f4261430a556e04714090904b...	41	admin	August 20, 2020 14:14:52

With the Hyperledger search function, users could search for all user approval and remittance records in the distributed ledger. As for the advantage of blockchain, which is the weak point that rewriting is impossible, we have realized safe asset management by invalidating the remittance transaction from the backend. This allows financial institutions to process refund. In addition, multi-signature management supports cases where approvals from multiple administrators is required.

Block	Transaction Count	Time
41	1 Transaction	August 20, 2020 14:14:52
40	1 Transaction	August 20, 2020 14:14:48
39	1 Transaction	August 20, 2020 14:14:02
38	1 Transaction	August 20, 2020 14:12:56

Txid	Block	Creator	Time
e1b0f4261430a556e04714090904b...	41	admin	August 20, 2020 14:14:52
a17c0b0c2657c0f5d0f0a321195d0e5...	40	admin	August 20, 2020 14:14:48
f00a04137340e040a0a0c73d0f030e54f...	39	admin	August 20, 2020 14:12:56
840030a07a0793d70a090904b0a00...	38	admin	August 20, 2020 14:11:19
f00a04137340e040a0a0c73d0f030e54f...	39	admin	August 20, 2020 14:12:56
840030a07a0793d70a090904b0a00...	38	admin	August 20, 2020 14:11:19

By making the distributed ledger open to the public, we can provide highly reliable data. The administrator role can manage all transactions, while general user could search and review the current status of digital assets.



Overview of Virtual Banking System **Payment Interface**



Payment amount 100PLA

Payment Fee 20PLA

Message:

Please enter the message

* Private key:

Please enter your private key

SEND

Users could use the payment agent system to pay the specified account. This allows payments made with digital assets to be realized on the blockchain.

Payment is realized by transferring digital assets by escrow services and by placing plugins on EC sites.

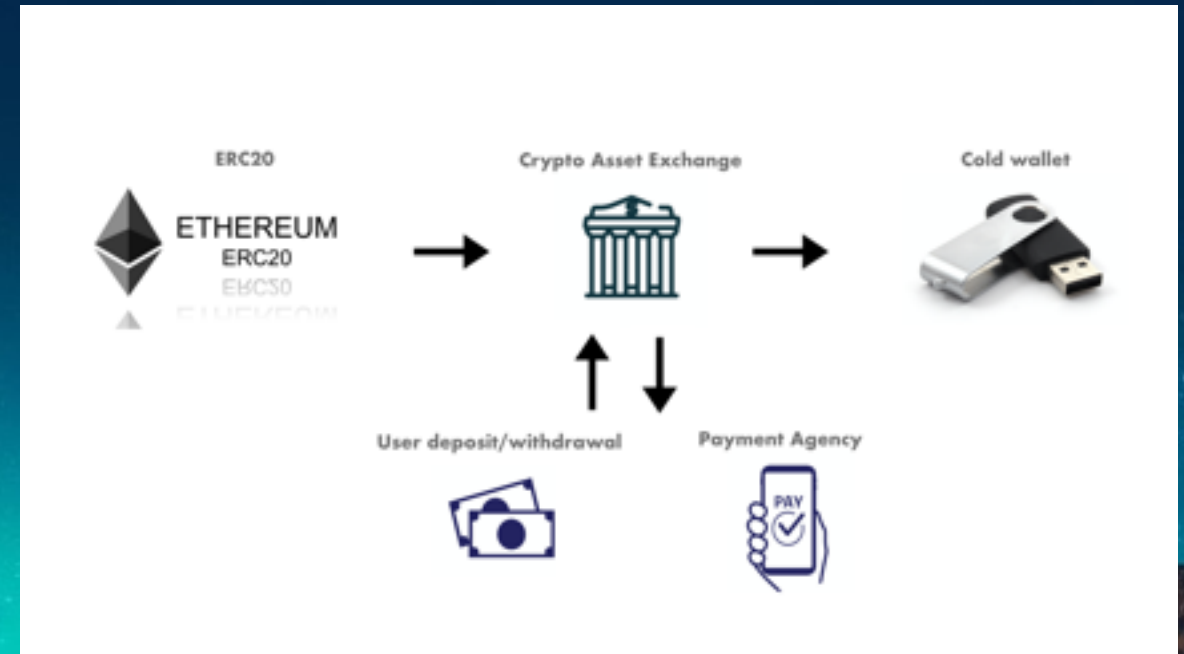
When fraud occurs, the transfer of digital assets can be invalidated or refund, which ensures convenience in the enterprise domain. Also, fees can be added to payments between accounts.



Overview of Virtual Banking System **Use Case**



Compensation for employees using company currency



For crypto asset exchange
Off-chain transaction service



Overview of Virtual Banking System **Order Payment**



Order Payment

Please check your order and complete the payment.

Order Number	978248960064452862
Order Content	Books-370
Price	100.0 PLA
Fee	2 PLA
Total	102 PLA

* Private key:

Please enter the private key to confirm the order.

CONFIRM



Overview of Virtual Banking System **Order Payment**



✔ Order Payment Succeed!

Congratulations on completing a payment.

Order Number	978248960064452862
Order Content	Books-370
Price	100.0 PLA
Fee	2 PLA
Total	102 PLA

[BACK TO THE HOMEPAGE](#)

