CLAIMS

What is claimed is:

1. A blockchain-based account management method, applied to a blockchain node corresponding to a server, comprising:

receiving a resource transfer request submitted by a resource transfer party;

invoking a resource transfer contract on a blockchain based on the resource transfer request, and determining address information of a target account management contract corresponding to the resource transfer party by executing the resource transfer contract;

determining the target account management contract on the blockchain based on the address information, wherein the target account management contract comprises a resource transfer account list corresponding to the resource transfer party, and is created in advance based on the resource transfer account list submitted by the resource transfer party and is configured to update the resource transfer account list in response to receiving an account update request submitted by the resource transfer party;

detecting, by executing the target account management contract, whether the resource transfer account list comprises resource processing account information associated with the resource transfer request;

if it is detected that the resource transfer account list does not comprise the resource processing account information associated with the resource transfer request, generating resource transfer warning information, and feeding back the resource transfer warning information to the resource transfer party; or

if it is detected that the resource transfer account list comprises the resource processing account information associated with the resource transfer request, generating resource transfer notification information, and feeding back the resource transfer notification information to the resource transfer party.

2. The method according to claim 1, wherein before the step of receiving a resource transfer request submitted by a resource transfer party is performed, the method further comprises:

creating an account management contract based on the resource transfer account list submitted by the resource transfer party, and creating an initial resource transfer contract;

uploading the initial resource transfer contract and the account management contract to the blockchain; and

determining address information of the account management contract, and updating the initial

resource transfer contract to the resource transfer contract based on the address information.

3. The method according to claim 1, wherein after the step of receiving a resource transfer request submitted by a resource transfer party is performed, the method further comprises:

parsing the resource transfer request, and determining resource transfer-out party information, resource transfer-in party information, resource information, and resource prompt information based on a parsing result; and

generating resource transfer information based on the resource transfer-out party information, the resource transfer-in party information, the resource information, and the resource prompt information, and updating, based on the resource transfer information, resource record information comprised in the resource transfer contract.

4. The method according to any one of claims 1 to 3, wherein the method further comprises:

receiving an account query request submitted by the resource transfer party; invoking the target account management contract based on the account query request, and querying the resource transfer account list comprised in the target account management contract; and feeding back a query result to the resource transfer party; or

receiving an information query request submitted by the resource transfer party, wherein the information query request carries information about a queried party; and invoking a first account management contract corresponding to the queried party based on the information about the queried party, querying a first resource transfer account list comprised in the first account management contract, and feeding back a query result to the resource transfer party.

5. The method according to any one of claims 1 to 3, wherein the method further comprises:

receiving an account update request submitted by the resource transfer party;

determining the target account management contract corresponding to the resource transfer party based on the account update request;

determining the resource transfer account list corresponding to the resource transfer party in the target account management contract; and

updating the resource transfer account list, and broadcasting an update result on the blockchain.

6. The method according to claim 1, wherein the determining address information of the target account management contract corresponding to the resource transfer party by executing the resource transfer contract comprises:

determining contract address information by executing the resource transfer contract, and using the contract address information as the address information of the target account management contract corresponding to the resource transfer party; and

correspondingly, the determining a target account management contract corresponding to the

resource transfer party on the blockchain based on the address information comprises:

determining a global account management contract on the blockchain based on the contract address information, and using the global account management contract as the target account management contract, wherein a global account list comprised in the global account management contract stores account information corresponding to at least one resource transfer party.

7. The method according to claim 6, wherein after the step of determining a global account management contract on the blockchain based on the contract address information, and using the global account management contract as the target account management contract is performed, the method further comprises:

detecting, by executing the global account management contract, whether the global account list comprised in the global account management contract comprises resource transfer-out account information and resource transfer-in account information that are associated with the resource transfer request; and

if it is detected that the global account list comprises resource transfer-out account information and resource transfer-in account information that are associated with the resource transfer request, generating prompt information, and feeding back the prompt information to the resource transfer party associated with the resource transfer request; or

if it is detected that the global account list does not comprise resource transfer-out account information and/or resource transfer-in account information that are/is associated with the resource transfer request, generating alert information, and feeding back the alert information to the resource transfer party associated with the resource transfer request.

8. A blockchain-based account management system, comprising a first blockchain node corresponding to a server and a second blockchain node corresponding to a transaction initiation party, wherein

the first blockchain node is configured to: invoke a transaction contract on a blockchain in response to a transaction request, and determine address information of a target account management contract corresponding to the transaction initiation party by executing the transaction contract;

the first blockchain node is further configured to determine, on the blockchain based on the address information, the target account management contract corresponding to the transaction initiation party, wherein the target account management contract comprises a transaction account list corresponding to the transaction initiation party, and is created in advance based on the transaction account list submitted by the transaction initiation party, and wherein the target account management contract is configured to update the transaction account list in response to receiving an account update request submitted by the transaction initiation party;

the first blockchain node is further configured to: detect, by executing the target account management contract, whether the transaction account list comprises resource processing account information associated with the transaction request, and if it is detected that the transaction account list does not comprise resource processing account information associated with the transaction request, generate transaction warning information, and feed back the transaction warning information to the second blockchain node as the detection result; or if it is detected that the transaction account list comprises resource processing account information associated with the transaction request, generate transaction notification information, and feed back the transaction notification information to the second blockchain node as the detection result; and

the second blockchain node is configured to execute a transaction task corresponding to the transaction request in response to the detection result being the transaction notification information.

9. A blockchain-based account management method, applied to a blockchain node corresponding to a server, comprising:

receiving a transaction request submitted by a transaction initiation party;

invoking a transaction contract on a blockchain based on the transaction request, and determining address information of a target account management contract corresponding to the transaction initiation party by executing the transaction contract;

determining, on the blockchain based on the address information, a target account management contract corresponding to the transaction initiation party, wherein the target account management contract comprises a transaction account list corresponding to the transaction initiation party, wherein the target account management contract is created in advance based on the transaction account list submitted by the transaction initiation party, and wherein the target account management contract is configured to update the transaction account list in response to receiving an account update request submitted by the transaction initiation party; and

detecting, by executing the target account management contract, whether the transaction account list comprises resource processing account information associated with the transaction request, and if it is detected that the transaction account list does not comprise resource processing account information associated with the transaction request, generating transaction warning information, and feeding back the transaction warning information to the transaction initiation party as the detection result; or if it is detected that the transaction account list comprises resource processing account information associated with the transaction request, generating transaction notification information, and feeding back the transaction notification information to the transaction initiation party as the detection result.

10. The method according to claim 9, wherein before the step of receiving a transaction request

submitted by a transaction initiation party, the method further comprises:

creating an account management contract based on the transaction account list submitted by the transaction initiation party, and creating an initial transaction contract;

uploading the initial transaction contract and the account management contract to the blockchain; and

determining address information of the account management contract, and updating the initial transaction contract to the transaction contract based on the address information.

11. The method according to claim 9, wherein after the step of receiving a transaction request submitted by a transaction initiation party is performed, the method further comprises:

parsing the transaction request, and determining transaction initiation party information, transaction receiving party information, resource information, and transaction prompt information based on a parsing result; and

generating transaction information based on the transaction initiation party information, the transaction receiving party information, the resource information, and the transaction prompt information, and updating, based on the transaction information, resource record information comprised in the transaction contract.

12. The method according to any one of claims 9 to 11, wherein the method further comprises:

receiving an account query request submitted by the transaction initiation party; invoking the target account management contract based on the account query request, and querying the transaction account list comprised in the target account management contract; and feeding back a query result to the transaction initiation party; or

receiving an information query request submitted by the transaction initiation party, wherein the information query request carries information about a queried party; and invoking, based on the information about the queried party, a first account management contract corresponding to the queried party, querying a first transaction account list comprised in the first account management contract, and feeding back a query result to the transaction initiation party.

13. The method according to any one of claims 9 to 11, wherein the method further comprises:

receiving an account update request submitted by the transaction initiation party;

determining the target account management contract corresponding to the transaction initiation party based on the account update request;

determining the transaction account list corresponding to the transaction initiation party in the target account management contract; and

updating the transaction account list, and broadcasting an update result on the blockchain.

14. The method according to claim 9, wherein the determining address information of the target

account management contract corresponding to the transaction initiation party by executing the transaction contract comprises:

determining contract address information by executing the transaction contract, and using the contract address information as the address information of the target account management contract corresponding to the transaction initiation party; and

correspondingly, the determining, on the blockchain based on the address information, a target account management contract corresponding to the transaction initiation party comprises:

determining a global account management contract on the blockchain based on the contract address information, and using the global account management contract as the target account management contract, wherein a global account list comprised in the global account management contract stores account information corresponding to at least one transaction initiation party.

15. The method according to claim 14, wherein after the step of determining a global account management contract on the blockchain based on the contract address information, and using the global account management contract as the target account management contract is performed, the method further comprises:

detecting, by executing the global account management contract, whether the global account list comprised in the global account management contract comprises transaction initiation account information and transaction receiving account information that are associated with the transaction request; and

if it is detected that the global account list comprises transaction initiation account information and transaction receiving account information that are associated with the transaction request, generating prompt information, and feeding back the prompt information to the transaction initiation party associated with the transaction request; or

if it is detected that the global account list does not comprise transaction initiation account information and/or transaction receiving account information that are/is associated with the transaction request, generating alert information, and feeding back the alert information to the transaction initiation party associated with the transaction request.

16. A computing device, comprising:

a memory and a processor, wherein

the memory is configured to store computer-executable instructions, the processor is configured to execute the computer-executable instructions, and when the computer-executable instructions are executed by the processor, steps of the blockchain-based account management method according to any one of claims 1 to 7 or claims 9 to 15 are implemented.

17. A computer-readable storage medium, wherein the computer-readable storage medium stores

computer-executable instructions, and when the computer-executable instructions are executed by a processor, steps of the blockchain-based account management method according to any one of claims 1 to 7 or claims 9 to 15 are implemented.