CLAIMS

1. A computer-implemented method for asset management, the computer-implemented method comprising:

receiving, from a target user having an account recorded in a distributed database of a blockchain network, a user input comprising a request to update a status of a target object that was transferred among a plurality of holders~~;~~, the request being signed by the target user using a private key;

determining a contract object associated with the target object, the contract object being published in the blockchain network and corresponding to an asset type of the target object, wherein the target object was created using the contract object, and wherein the contract object comprises a list of member users with an update permission for the target object and information about public keys held by the member users;

performing an identity authentication of the target user based on a respective public key corresponding to the private key used for signing the request;

in response to a successful identity authentication of the target user, determining, based on the contract object, that the target user is a current holder of the target object and is included in the list of member users with the update permission for the target object; and

in response to determining that the target user has the update permission for the target object, performing a status update on the target object by invoking the contract object.

2. The computer-implemented method ~~according to~~of claim 1, wherein performing the identity authentication of the target user comprises executing an authentication program corresponding to the update permission for the target ~~object is stated in the contract~~ object.

3. The computer-implemented method ~~according~~of claim 1, wherein the contract object comprises a whitelist of target objects authorized to hold an asset object created by invoking the contract object.

4. The computer-implemented method of claim 1, wherein the contract object comprises a code field that is used to maintain an execution code related to an execution program.

5. The computer-implemented method of claim 1, wherein the blockchain network comprises a consortium chain, and the target user in the blockchain network is a consortium member that has asset object generation authority in the consortium chain.

6. The computer-implemented method of claim 1, wherein the status of the target object comprises a flag indicating a performance of the target user.

7.~~claim 2~~ The computer-implemented method of claim 1, further comprising~~:~~ generating for the target user a public key associated with an account address of an institution in the blockchain network and a private key configured to be used by the institution to operate an account corresponding to the account address.

~~performing permission authentication on the~~

8. A non-transitory, computer-readable medium storing one or more instructions executable by a computer system to perform operations comprising:

receiving, from a target user ~~by invoking~~having an account recorded in a distributed database of a blockchain network, a user input comprising a request to update a status of a target object that was transferred among a plurality of holders, the request being signed by the ~~authentication program stated in the~~ target user using a private key;

determining a contract object associated with the target object, the contract object being published in the blockchain network and corresponding to ~~the~~an asset type of the target object, ~~and determining that~~wherein the target ~~user is~~object was created using the contract object, and wherein the contract object comprises a list of member ~~user~~users with an update permission for the target object ~~if permission authentication succeeds.~~and information about public keys held by the member users;

~~4. The computer-implemented method according to claim 1, wherein the list of member users with update permission for the target object is stated in the contract object.~~

~~5. The computer-implemented method according to claim 4, wherein~~performing an identity authentication of the target user based on a respective public key corresponding to the private key used for signing the request;

in response to a successful identity authentication of the target user, determining, based on the contract object, that the target user is a current holder of the target object and is included in the list of member users with the update permission for the target object ~~comprises:~~; and

~~verifying whether the target user matches a member user in the list, and~~ in response to determining that the target user ~~is a~~has the update permission for the target object, performing a status update on the target object by invoking the contract object.

9. The non-transitory, computer-readable medium of claim 8, wherein performing the identity authentication of the target user comprises executing an authentication program corresponding to the update permission for the target object.

10. The non-transitory, computer-readable medium of claim 8, wherein the contract object comprises a whitelist of target objects authorized to hold an asset object created by invoking the contract object.

11. The non-transitory, computer-readable medium of claim 8, wherein the contract object comprises a code field that is used to maintain an execution code related to an execution program.

12. The non-transitory, computer-readable medium of claim 8, wherein the blockchain network comprises a consortium chain, and the target user in the blockchain network is a consortium member that has asset object generation authority in the consortium chain.

13. The non-transitory, computer-readable medium of claim 8, wherein the status of the target object comprises a flag indicating a performance of the target user.

14. The non-transitory, computer-readable medium of claim 8, wherein the operations further comprise generating for the target user a public key associated with an account address of an institution in the blockchain network and a private key configured to be used by the institution to operate an account corresponding to the account address.

15.~~user with~~ A computer-implemented system, comprising:

one or more computers; and

one or more computer memory devices interoperably coupled with the one or more computers and having tangible, non-transitory, machine-readable media storing one or more instructions that, when executed by the one or more computers, perform operations comprising:

receiving, from a target user having an account recorded in a distributed database of a blockchain network, a user input comprising a request to update a status of a target object that was transferred among a plurality of holders, the request being signed by the target user using a private key;

determining a contract object associated with the target object, the contract object being published in the blockchain network and corresponding to an asset type of the target object, wherein the target object was created using the contract object, and wherein the contract object comprises a list of member users with an update permission for the target object and information about public keys held by the member users;

performing an identity authentication of the target user based on a respective public key corresponding to the private key used for signing the request;

in response to a successful identity authentication of the target user, determining, based on the contract object, that the target user is a current holder of the target object and is included in the list of member users with the update permission for the target object ~~if the target user matches the member user in the list.~~; and

~~6. The computer-implemented method according~~in response to ~~claim 3, wherein the list of member users is a public key list of the member users with~~ determining that the target user has the update permission for the target object, ~~and the request is signed by the target user based on a held private key.~~

~~7. The computer-implemented method according to claim 6, wherein verifying whether the target user matches the member user in the list of member users comprises:~~

performing ~~authentication on a signature of the request based on a public key in the public key list, and determining that the target user matches a member user in the list if authentication succeeds.~~

~~8. The computer-implemented method according to claim 1, wherein an execution program used to perform the status update on the target object is stated in the contract object.~~

~~9. The computer-implemented method according to claim 8, wherein performing the~~ a status update on the target object by invoking the contract object.

16. The computer-implemented system of claim 15, wherein performing the identity authentication of the target user comprises executing an authentication program corresponding to the update permission for the target object.

17. The computer-implemented system of claim 15, wherein the contract object comprises~~:~~

~~performing the status update on the target object by invoking the execution program stated in the contract object.~~

~~10. The computer-implemented method according to claim 9, wherein~~ a whitelist of target objects ~~supported by the blockchain network comprise an account object, the contract object, and~~authorized to hold an asset object~~, and wherein the object supported by the blockchain network comprises a status field, and the status field is used to maintain status information of the~~ created by invoking the contract object.

~~11.~~18. The computer-implemented ~~method according to~~ system of claim ~~10~~15, wherein ~~performing the status update on the target object by invoking the execution program stated in~~ the contract object comprises~~:~~

~~performing~~ a ~~status update on the target object by invoking the execution program stated in the contract object and adding status information of the target object~~code field that is ~~comprised in the request to a status field in the target object~~used to maintain an execution code related to an execution program.

~~12.~~19. The computer-implemented ~~method according to~~ system of claim ~~11~~15, wherein the ~~contract object supported by the~~ blockchain network ~~further~~ comprises a ~~code field, and the code field is used to maintain execution code related to an execution program stated in the contract object.~~

~~13. The computer-implemented method according to claim 1, wherein the blockchain network is a~~ consortium ~~blockchain~~chain, and ~~a~~the target ~~member~~user in the blockchain network is a consortium member ~~with~~that has asset object ~~creation permission~~generation authority in the consortium ~~blockchain~~chain.

~~14.~~20. The computer-implemented ~~method according to~~ system of claim ~~1, further comprising:~~

~~in response to the request, verifying whether the target user is a publisher of the contract object that is published in the blockchain network and corresponds to an asset type of the target object~~15, wherein the ~~target object is created by invoking the contract object; and~~

~~performing a~~ status ~~update on~~of the target object ~~by invoking the contract object if~~comprises a flag indicating a performance of the target user ~~is a member user who publishes the contract object~~.

~~15. An apparatus for asset management, the apparatus comprising a plurality of modules configured to perform the computer-implemented method of any one of claims 1 to 14.~~