CLAIMS

What is claimed is:

1. A computer-implemented method ~~for generating a digital document of title, applied to~~performed at a service node ~~and,~~ comprising:

receiving ~~a~~ document creation request sent by a first user device, the document creation request for creating a digital document of title of a target asset, wherein receiving the document creation request comprises:

receiving first configuration information of ~~a~~the digital document of title to be created;

identifying a category of the target asset;

selecting a corresponding first document template that is associated with the category of the target asset, wherein the digital document of title ~~to be created,~~and the target asset are in the same category, and the first configuration information is configuration information generated by the first user device by performing a configuration operation on each component in ~~a~~the corresponding first document template based on related information of the target asset, ~~and~~wherein the corresponding first document template is a template that matches the related information of the target asset in a plurality of document templates corresponding to a first blockchain;

generating ~~a~~the digital document of title based on the first configuration information and a predetermined document generation rule; ~~and~~

storing the digital document of title in the first blockchain~~, so~~;

connecting the target asset ~~is circulated~~with the digital document of title in the first blockchain;

circulating the target asset by using the first blockchain based on the digital document of title~~.~~;

receiving, from the first user device, a document query request for the digital document of title, wherein the document query request comprises document identification information of a to-be-queried digital document of title;

matching the document identification of the to-be-queried digital document of title with document identification information of the digital document of title stored in the first blockchain; and

in response to that the document identification of the to-be-queried digital document of title matches with the document identification information of the digital

document of title stored in the first blockchain, sending, to the first user device, re-direction information and the digital document of title, wherein the re-direction information, when selected at the first user device, redirects the first user device to a corresponding display interface that displays the first configuration information.

2. The method according to claim 1, wherein ~~the~~ generating ~~a~~the digital document of title based on the first configuration information and ~~a~~the predetermined document generation rule comprises:

invoking a first smart contract deployed in the first blockchain~~,~~; and

generating the digital document of title based on the first smart contract, the predetermined document generation rule, and the first configuration information.

3. The method according to claim 2, wherein the document creation request further comprises template identification information of the corresponding first document template; and

the generating the digital document of title based on the first smart contract, the predetermined document generation rule, and the first configuration information comprises:

~~if it is~~when determined, based on the first smart contract, that the first configuration information satisfies a configured first configuration rule of the component~~,~~:

obtaining an associated target component set from a predetermined association relationship between the template identification information and a component set based on the template identification information, wherein a component in the component set ~~is a component that~~ has to be configured when a corresponding digital document of title is generated;

determining whether the first configuration information comprises target configuration information of each component in the associated target component set; and

~~if yes~~when the first configuration information is determined to comprise the target configuration information of each component in the associated target component set, determining the document identification information of the digital document of title~~,~~ and generating the digital

document of title based on the document identification information of the digital document of title and the target configuration information.

4. The method according to claim 1, wherein the generating athe digital document of title based on the first configuration information and the predetermined document generation rule comprises:

ifwhen it is determined that the first configuration information comprises access information of external source data, :

accessing the external source data based on the access information;; and

generating the digital document of title based on the external source data and the first configuration information.

5. The method according to claim 1, wherein the storing the digital document of title in the first blockchain comprises:

associatively storing the digital document of title with the first configuration information in the first blockchain.

6. The method according to claim 5, wherein the digital document of titlemethod further comprises document identification information; and:

after the associatively storing the digital document of title with the first configuration information in the first blockchain, the method further comprises:

receiving a document query request sent by the first user, wherein the document query request comprises document identification information of a digital document of title to be queried;

querying the associated digital document of title and the first configuration information from the first blockchain based on the document identification information;

generating the re-direction information of athe corresponding display interface of the first configuration information; and

sending the queried digital document of title and the re-direction information to the first user, so the first user queries device to query the first configuration information based on the re-direction information.

7. The method according to claim 1, ~~before the receiving a document creation request sent by a first user,~~ further comprising:

receiving a template acquisition request sent by the first user device, wherein the template acquisition request comprises template identification information of the corresponding first document template to be obtained;

obtaining the ~~associated~~corresponding first document template from the first blockchain based on the template identification information; and

sending the obtained first document template to the first user~~, so~~ device to enable the first user ~~performs a~~device to perform the configuration operation on each component in the corresponding first document template.

8. The method according to claim 1, ~~wherein the method~~ further ~~comprises~~comprising:

receiving a template creation request sent by the first user device, wherein the template creation request comprises second configuration information of each target component comprised in a document template to be created and user identification information of the first user device, and the target component is a component selected by the first user device from a predetermined optional component;

generating a document template based on the second configuration information ~~if it is determined~~in response to determining that the second configuration information satisfies a second configuration rule of the target component;

determining template identification information of the generated document template, and associatively storing the determined template identification information, the generated document template, and the user identification information in the first blockchain; and

sending template creation success information to the first user device.

9. The method according to claim 8, wherein ~~the~~ generating ~~a~~the document template based on the second configuration information ~~if it is determined that the second configuration information satisfies a second configuration rule of the target component~~ comprises:

invoking a second smart contract deployed in the first blockchain~~,~~; and

generating the document template based on the second configuration information if it is determined, based on the second smart contract, that the second

configuration information satisfies the second configuration rule of the target component.

10. The method according to claim 9, ~~wherein the method~~ further ~~comprises~~comprising:

receiving a template management request sent by the first user device, wherein the template management request is used to request to perform at least one of a query, delete, or update operation on the document template created by the first user device; and

performing corresponding processing based on the template management request, and sending processing result information to the first user device.

11. A ~~method for generating a digital document of title, applied~~non-transitory, computer-readable medium storing one or more instructions executable by a computer system to realize a ~~client device~~service node and perform operations comprising:

~~obtaining~~receiving document creation request sent by a first user device, the document creation request for creating a digital document of title of a target asset, wherein receiving the document creation request comprises:

receiving first configuration information of ~~a~~the digital document of title to be created ~~in response to a creation operation performed by a first user to create~~;

identifying a category of the target asset;

selecting a corresponding first document template that is associated with the category of the target asset, wherein the digital document of title ~~of a~~and the target asset~~, wherein~~ are in the same category, and the first configuration information is configuration information generated by the first user device by performing a configuration operation on each component in ~~a~~the corresponding first document template based on related information of the target asset, ~~and the first document template is a template that matches the related information of the target asset in a plurality of document templates corresponding to a first blockchain; and~~

~~if it is determined that the first configuration information satisfies a configured first configuration rule of the component, sending a document creation request to a service node based on the first configuration information, so the service node generates a digital document of title based on the first configuration information and a~~

predetermined document generation rule, and stores the digital document of title in the first blockchain, so the target asset is circulated by using the first blockchain based on the digital document of title.wherein the corresponding

12. The method according to claim 11, before the obtaining first configuration information of a digital document of title to be created, further comprising:

determining template identification information of the first document template corresponding to the digital document of title;

sending a template acquisition request to the service node based on the template identification information, so the service node obtains the associated first document template from the first blockchain based on the template identification information; and

displaying the received first document template sent by the service node.

13. The method according to claim 11, wherein the method further comprises:

sending a document query request to the service node in response to a document query operation of the first user, wherein the document query request comprises document identification information of a digital document of title to be queried, so the service node queries the associated digital document of title and the first configuration information from the first blockchain based on the document identification information, to generate re-direction information of a display interface of the first configuration information;

displaying the received digital document of title and the re-direction information sent by the service node; and

if a trigger operation of the re-direction information is detected, re-directing to the display interface to display the first configuration information.

14. The method according to claim 11, wherein the method further comprises:

displaying a plurality of predetermined optional components in response to a template creation operation of the first user, so the first user selects, from the optional components, a target component comprised in a document template to be created;

obtaining second configuration information generated when the first user performs a configuration operation on the target component;

sending a template creation request to the service node based on the second configuration information and user identification information of the first user, so the service node performs template creation processing based on the template creation

~~request, and associatively stores the created document template and the user identification information in the first blockchain; and~~

~~displaying received template creation result information sent by the service node.~~

~~15. The method according to claim 14, wherein the method further comprises:~~

~~sending a template management request to the service node in response to a template management operation of the first user, so the service node performs corresponding processing based on the template management request, and the template management request is used to request to perform at least one of a query, delete, or update operation on the document template created by the first user; and~~

~~displaying received processing result information sent by the service node.~~

~~16. An apparatus for generating a digital document of title, applied to a service node and comprising:~~

~~a receiving module, configured to receive a document creation request sent by a client device of a first user for creating a digital document of title of a target asset, wherein the document creation request comprises first configuration information of a digital document of title to be created, the first configuration information is configuration information generated by the first user by performing a configuration operation on each component in a corresponding first document template based on related information of the target asset, and the~~ first document template is a template that matches the related information of the target asset in a plurality of document templates corresponding to a first blockchain;

~~a generation module, configured to generate a~~generating the digital document of title based on the first configuration information and a predetermined document generation rule;~~ and~~

~~a storage module, configured to store~~storing the digital document of title in the first blockchain~~, so~~;

connecting the target asset ~~is circulated~~with the digital document of title in the first blockchain;

circulating the target asset by using the first blockchain based on the digital document of title~~.~~;

~~17. The apparatus according to claim 16, wherein~~

receiving, from the ~~generation module is configured to: invoke a~~ first ~~smart contract deployed in the first blockchain, and generate~~user device, a document query

request for the digital document of title ~~based on the first smart contract, the predetermined document generation rule, and the first configuration information.~~

~~18. The apparatus according to claim 17~~, wherein the document ~~creation~~query request ~~further~~ comprises ~~template~~document identification information of ~~the document template; and~~

~~the generation module is configured to: if it is determined, based on the first smart contract, that the first configuration information satisfies a configuration rule of a corresponding component, obtain an associated target component set from a predetermined association relationship between template identification information and a component set based on the template identification information, wherein a component in the component set is a component that has to~~ a to-be ~~configured when a corresponding~~ -queried digital document of title ~~is generated~~;

~~determine whether the first configuration information comprises target configuration information~~ matching the document identification of ~~each component in the target component set; and~~

~~if yes, determine document identification information of the digital document of title, and generate the~~the to-be-queried digital document of title ~~based on the~~with document identification information ~~and the target configuration information.~~

~~19. The apparatus according to claim 16, wherein the apparatus further comprises: a template creation module, wherein~~

~~the receiving module is configured to: further receive a template creation request sent by the first user, wherein the template creation request comprises second configuration information~~ of ~~each target component comprised in a~~the digital document ~~template to be created and user identification information~~ of ~~the first user, and the target component is a component selected by the first user from a predetermined optional component;~~

~~the template creation module is configured to: if it is determined that the second configuration information satisfies a configuration rule of a corresponding component, generate a document template based on the second configuration information;~~

~~determine template identification information of the generated document template, and associatively store the determined template identification information, the generated document template, and the user identification information~~title stored in the first blockchain; and

send template creation success informationin response to that the document identification of the to-be-queried digital document of title matches with the document identification information of the digital document of title stored in the first blockchain, sending, to the first user.

20. An apparatus for generating a digital document of title, applied to a client device and comprising:

a first acquisition module, configured to obtain first configuration, re-direction information of aand the digital document of title to be created in response to a creation operation performed by a first user to create a digital document of title of a target asset, wherein the re-direction information, when selected at the first user device, redirects the first user device to a corresponding display interface that displays the first configuration information is configuration information generated by the first user by performing a configuration operation on each component in a corresponding first document template based on related information of the target asset, and the first document template is a template that matches the related information of the target asset in a plurality of document templates corresponding to a first blockchain; and.

12. a sending module, configured to: if it is determined that the first configuration information satisfies a configured first configuration rule of the component, send a document creation request to a service node based on the first configuration information, so the service node generates a digital document of title based on the first configuration information and a predetermined document generation rule, and stores the digital document of title in the first blockchain, so the target asset is circulated by using the first blockchain based on the digital document of title.

21. The apparatus according to claim 20, wherein the apparatus further comprises a display module and a second acquisition module, wherein
the display module is configured to display a plurality of predetermined optional components in response to a template creation operation of the first user, so The non-transitory, computer-readable medium of claim 11, the operations further comprising:

receiving a template acquisition request sent by the first user device, wherein the template acquisition request comprises template identification information of the corresponding first document template to be obtained;

obtaining the corresponding first document template from the first blockchain based on the template identification information; and

sending the obtained first document template to the first user ~~selects, from the optional components, a target component comprised in a document template to be created;~~

~~the second acquisition module is configured to obtain second configuration information generated when~~device to enable the first user ~~performs a configuration operation on the target component;~~

~~the sending module is configured to send a template creation request to the service node based on the second configuration information and user identification information of the first user, so the service node performs template creation processing based on the template creation request, and associatively stores the created document template and the user identification information in the first blockchain; and~~

~~the display module is configured to display template creation result information sent by the service node and received by the receiving module.~~

~~22. A device for generating a digital document of title, comprising:~~

~~a processor; and~~

~~a memory, arranged to store computer executable instructions, wherein when the computer executable instructions are being executed, the processor is enabled to:~~

~~receive a document creation request sent by a client device of a first user for creating a digital document of title of a target asset, wherein the document creation request comprises first configuration information of a digital document of title to be created, the first configuration information is configuration information generated by the first user by performing a~~ device to perform the configuration operation on each component in ~~a corresponding first document template based on related information of the target asset, and the first document template is a template that matches the related information of the target asset in a plurality of document templates corresponding to a first blockchain;~~

~~generate a digital document of title based on the first configuration information and a predetermined document generation rule; and~~

~~store the digital document of title in the first blockchain, so the target asset is circulated by using the first blockchain based on the digital document of title.~~

~~23. A device for generating a digital document of title, comprising:~~

~~a processor; and~~

~~a memory, arranged to store computer executable instructions, wherein when the computer executable instructions are being executed, the processor is enabled to:~~

~~obtain first configuration information of a digital document of title to be created in response to a creation operation performed by a first user to create a digital document of title of a target asset, wherein the first configuration information is configuration information generated by the first user by performing a configuration operation on each component in a~~ the corresponding first document template ~~based on related information of the target asset, and the document template is a template that matches the related information of the target asset in a plurality of document templates corresponding to a first blockchain; and~~

~~if it is determined that the first configuration information satisfies a configured first configuration rule of the component, send a document creation request to a service node based on the first configuration information, so the service node generates a digital document of title based on the first configuration information and a predetermined document generation rule, and stores the digital document of title in the first blockchain, so the target asset is circulated by using the first blockchain based on the digital document of title.~~

~~24. A storage medium, configured to store computer executable instructions, wherein the computer executable instructions implement the following procedure when being executed by a processor:~~

~~receiving a document creation request sent by a client device of a first user for creating a digital document of title of a target asset, wherein the document creation request comprises first configuration information of a digital document of title to be created, the first configuration information is configuration information generated by the first user by performing a configuration operation on each component in a corresponding first document template based on related information of the target asset, and the first document template is a template that matches the related information of the target asset in a plurality of document templates corresponding to a first blockchain;~~

~~generating a digital document of title based on the first configuration information and a predetermined document generation rule; and~~

~~storing the digital document of title in the first blockchain, so the target asset is circulated by using the first blockchain based on the digital document of title.~~

~~25. A storage medium, configured to store computer executable instructions, wherein the computer executable instructions implement the following procedure when being executed by a processor:~~

~~obtaining first configuration information of a digital document of title to be created in response to a creation operation performed by a first user to create a digital document of title of a target asset, wherein the first configuration information is configuration information generated by the first user by performing a configuration operation on each component in a corresponding first document template based on related information of the target asset, and the first document template is a template that matches the related information of the target asset in a plurality of document templates corresponding to a first blockchain; and~~

~~if it is determined that the first configuration information satisfies a configured first configuration rule of the component, sending a document creation request to a service node based on the first configuration information, so the service node generates a digital document of title based on the first configuration information and a predetermined document generation rule, and stores the digital document of title in the first blockchain, so the target asset is circulated by using the first blockchain based on the digital document of title~~.