SYSTEMS AND METHODS FOR ASSET AUTHENTICATION AND MANAGEMENT

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority to and the benefit of co-pending U.S. Provisional Patent Application No. 63/226,012, titled "SYSTEMS AND METHODS FOR ASSET AUTHENTICATION AND MANAGEMENT," filed July 27, 2021, the full disclosure of which is hereby incorporated by reference in its entirety for all purposes.

BACKGROUND

[0002] People often have several types of assets that have monetary value, such as value on a secondary market. These people might want to perform various tasks with respect to these assets, such as to sell the assets or use them as collateral. In many instances, however, it is difficult to verify authenticity, ownership, value, insurance, and other such aspects of these assets, which may limit the ability of these people to utilize their assets to their full extent.

SUMMARY OF THE INVENTION

[0002a] In a first aspect of the invention, there is provided a computer-implemented method, comprising: receiving a request, at an authentication service, to add an asset to a distributed ledger; requesting, from a user, authentication information associated with the asset; receiving, responsive to the request, the authentication information; determining, based at least in part on one or more features of the authentication information and a category of the asset, that the authentication information fails to meet one or more threshold sufficiency factors; providing, to the user, one or more recommendations to obtain supplemental authentication information; receiving, supplemental authentication information; determining, based at least in part on one or more features of the supplemental authentication information, that the supplemental authentication information exceeds the one or more threshold sufficiency factors; and

generating, for the asset, an entry in a distributed ledger including at least ownership information for the asset and an authentication status of the asset based, at least in part, on the authentication information and the supplemental authentication information.

[0002b] In a second aspect of the invention, there is provided a system, comprising: at least one processor; a memory device, the memory device storing instructions that, when executed by the at least one processor, cause the system to: receive a request, from a user owning one or more assets, to enter into a transaction; transmit the request to one or more transacting entities; provide, to the one or more transacting entities; information associated with the one or more assets, the information stored on a distributed ledger and including at least ownership information and an authenticity status of the one or more assets; receive, from the one or more transacting entities; a set of terms associated with the transaction; provide, to the user, the set of terms; receiving, from the user, a selection from the set of terms; and updating an entry in the distributed ledge corresponding to the one or more assets to reflect the selection.

[0002c] In a third aspect of the invention, there is provided a method, comprising: receiving a request, at an online marketplace, to add an asset for sale within the online marketplace; determining, based at least in part on the request, an entry within a distributed ledger associated with the asset; verifying one or more features of the asset based, at least in part, on the entry; and listing the asset within the online marketplace.

BRIEF DESCRIPTION OF THE DRAWINGS

[0003] Various embodiments in accordance with the present disclosure will be described with reference to the drawings, in which:

[0004] FIG. 1 illustrates an example asset information management system that can be utilized in accordance with various embodiments.

[0005] FIG. 2 illustrates an example authentication system that can be utilized in accordance with various embodiments.

[0006] FIG. 3 illustrates an example interface of a block of a distributed ledger that can be utilized in accordance with various embodiments.