

CLAIMS

What is claimed is:

1. A computer-implemented method for retrieving a value of a digital ticket using a smart contract executing within a blockchain network, the method comprising:

receiving, by a distributing node and from a client device, a request for a current value of a digital ticket, the request comprising the digital ticket, wherein the digital ticket has an original value and comprises one or more value changing rules for determining the current value of the digital ticket,

and wherein the request comprises a selection of at least one value changing rule, of the one or more value changing rules, according to which the current value is to be determined;

in response to receiving the request from the client device, retrieving, by the distributing node, a smart contract from the blockchain network, the smart contract comprising the selected at least one value changing rule, wherein the selected at least one value changing rule is a subset of value changing rules stored in the smart contract;

determining, by the distributing node and based on applying the selected at least one value changing rule, the current value of the digital ticket by executing the smart contract; and

associating, by the distributing node, the current value with the digital ticket.

2. The computer-implemented method of claim 1, wherein the request comprises a timestamp of the digital ticket, and determining the current value of the digital ticket is based at least in part on the timestamp.

3. The computer-implemented method of any preceding claim, wherein the one or more value changing rules comprise a value changing rule that associates a growth rate with the current value of the digital ticket.

4. The computer-implemented method of any preceding claim, wherein the one or more value changing rules comprise a value changing rule that associates a date with the current value of the digital ticket.
5. The computer-implemented method of any preceding claim, wherein the one or more value changing rules comprise a value changing rule that associates a location with the current value of the digital ticket.
6. The computer-implemented method of any preceding claim, wherein the distributing node is located external to the blockchain network.
7. An apparatus for retrieving a value of digital ticket using a smart contract executing within a blockchain network, the apparatus comprising a plurality of modules for performing the method of any of claims 1 to 6.
8. A system, comprising:
 - one or more processors; and
 - one or more computer-readable memories coupled to the one or more processors and having instructions stored thereon that are executable by the one or more processors to perform the method of any of claims 1 to 6.