Claims

What is claimed is:

1. A method of managing distributed ledger data, the method comprising:

establishing a communication channel between a processor and a computing device of a provider;

receiving, at the processor from the provider computing device, a communication request, the communication request being a request to process a recording of a transfer of digital tokens from the provider to one or more users based on one or more user criterion and one or more location criterion;

performing, by the processor, a first selection process, the first selection process including:

extracting, from the communication request, the one or more user criterion;

transforming the one or more user criterion into one or more desired user attributes;

searching a database, the database having a plurality of registered users and a plurality of stored attributes for each registered user; and

selecting, from the database, one or more candidate users, each candidate user being a registered user having one or more stored attributes that match the one or more desired user attributes;

performing, by the processor, a second selection process, the second selection process including:

extracting, from the communication request, the one or more location criterion;

transforming the one or more location criterion into one or more desired user locations;

communicating, between the processor and a computing device of each candidate user, the communicating including obtaining, by the processor, a current geolocation of the computing device of each candidate user; and

selecting, from among the one or more candidate users, one or more selected users, wherein a candidate user is selected as one of the selected users when the current geolocation of the computing device of that candidate user is within at least a threshold

distance from at least one of the desired user locations;

pushing, from the processor to a computing device of a first selected user, a notification, the notification providing an interactive option to accept a recording of a transfer of a first quantity of digital tokens from the provider to the first selected user, the first selected user being one of the selected users; and

responsive to receiving, by the processor from the computing device of the first selected user, a response indicative of accepting the recording of the transfer of the first quantity of digital tokens from the provider to the first selected user:

processing, by the processor, a transfer record for the recording of the transfer of the first quantity of digital tokens from the provider to the first selected user; and

recording, by the processor in a distributed ledger, the transfer record.

2. The method of claim 1, further comprising:

extracting, from the communication request, a total quantity of digital tokens that the provider would like to record as being transferred; and

determining, based on the total quantity of digital tokens and a quantity of the selected users, the first quantity of digital tokens.

3. The method of claim 1, further comprising:

pushing, from the processor to a computing device of a second selected user, a second notification, the second notification providing an interactive option to accept a recording of a transfer of a second quantity of digital tokens from the provider to the second selected user, the second selected user being one of the selected users; and

responsive to receiving, by the processor from the computing device of the second selected user, a response indicative of not accepting the recording of the transfer of the second quantity of digital tokens from the provider to the second selected user:

selecting, from among the one or more candidate users that have not yet been selected as one of the selected users, an additional selected user;

pushing, from the processor to a computing device of the additional selected user, an additional notification, the additional notification providing an interactive option to accept a recording of a transfer of a third quantity of digital tokens from the provider to the additional selected user;

responsive to receiving, by the processor from the computing device of the additional selected user, a response indicative of accepting the recording of the transfer of

the third quantity of digital tokens from the provider to the additional selected user:

processing, by the processor, a second transfer record for the recording of the transfer of the third quantity of digital tokens from the provider to the additional selected user; and

recording, by the processor in the distributed ledger, the second transfer record.

4. The method of claim 3,

wherein the first quantity of digital tokens is determined based on at least one or more stored attributes of the first selected user;

wherein the second quantity of digital tokens is determined based on at least one or more stored attributes of the second selected user; and

wherein the third quantity of digital tokens is determined based on at least one or more stored attributes of the additional selected user.

5. The method of claim 4, wherein one or more of the following apply:

the first quantity of digital tokens is further based on a current geolocation of the first selected user, wherein the second quantity of digital tokens is further based on a current geolocation of the second selected user; and wherein the third quantity of digital tokens is further based on a current geolocation of the additional selected user; and/or

the communicating, between the processor and the computing device of each candidate user, includes searching, by the processor, for contextual information associated with one or more historic interactions between the candidate user and the computing device of the candidate user.

6. The method of claim 3, further comprising:

extracting, from the communication request, a total quantity of digital tokens that the provider would like to record as being transferred; and

determining, based on the total quantity of digital tokens and a quantity of the selected users, the first quantity of digital tokens, the second quantity of digital tokens, and the third quantity of digital tokens;

wherein the first quantity of digital tokens, the second quantity of digital tokens, and the third quantity of digital tokens are equal.

7. The method of claim 1, further comprising obtaining, by the processor, one or more historic geolocations of the computing device of each candidate user;

wherein a candidate user is selected as one of the selected users when one or more of the historic geolocations of the computing device of that candidate user is within at least a threshold distance from at least one of the desired user locations.

8. The method of claim 1, further comprising searching, by the processor, for contextual information associated with one or more records in the distributed ledger pertaining to the candidate user.

9. The method of claim 8, wherein the one or more candidate users is further selected based on a match between the contextual information found in the searching and the one or more desired user attributes.

10. The method of claim 1, wherein the database is a distributed ledger.

11. A method of managing distributed ledger data, the method comprising:

receiving, by a processor, a request to process a selective distribution of distributed ledger data;

extracting, by the processor, one or more desired user attributes from the request;

searching, by the processor, a database, the database having a plurality of users and a plurality of stored attributes for each user;

selecting, by the processor, one or more candidate users, each candidate user being a user having one or more stored attributes matching the one or more desired user attributes;

communicating, between the processor and a computing device of each candidate user, the communicating including obtaining, by the processor, geolocation information of the computing device of each candidate user;

determining, by the processor, one or more target locations; and

responsive to the processor obtaining, from a computing device of a first candidate user, geolocation information of the computing device of the first candidate user indicative of the first candidate user being and/or having been present at one of the target locations:

processing, by the processor, a distribution of a quantity of distributed ledger data to the first candidate user;

wherein the first candidate user is one of the candidate users.

12. The method of claim 11, wherein one or more of the following apply:

the one or more target locations is determined based on the request; and/or

the one or more target locations are determined based on the geolocation information of the computing device of one or more of the candidate users obtained by the processor.

13. The method of claim 11, further comprising providing, by the processor to the computing device of the first candidate user, a notification, the notification including information pertaining to at least one of the target locations.

14. The method of claim 11, wherein one or more of the following apply:

the quantity of distributed ledger data distributed to the first candidate user is based on one or more stored attributes for the first candidate user;

the quantity of distributed ledger data distributed to the first candidate user is based on the target location; and/or

the quantity of distributed ledger data distributed to the first candidate user is based on geolocation information of the computing device of the first candidate user.

15. The method of claim 11, further comprising recording, by the processor in a distributed ledger, the distribution of the quantity of distributed ledger data to the first candidate user.

16. The method of claim 11, wherein the communicating, between the processor and the computing device of each candidate user, includes searching, by the processor, for contextual information associated with one or more historic interactions between the candidate user and the computing device of the candidate user.

17. The method of claim 16, wherein the one or more candidate users is further selected based on a match between the contextual information found in the searching and the one or more desired user attributes.

18. The claim of claim 11, wherein the distributed ledger data includes a digital token or a cryptocurrency.

19. A method of managing distributed ledger data, the method comprising:

receiving, at a processor, a request to distribute distributed ledger data;

extracting, by the processor, one or more desired user attributes from the request;

searching, by the processor, a database, the database having a plurality of users and a plurality of stored attributes for each user;

selecting, by the processor, a first candidate user and second candidate user, each of the first and second candidate users having one or more stored attributes that match the one

or more desired user attributes;

determining, by the processor, a first set of target locations, the first set of target locations selected for the first candidate user;

determining, by the processor, a second set of target locations, the second set of target locations selected for the second candidate user, the second set of target locations different from the first set of target locations;

responsive to the processor obtaining, from a computing device of the first candidate user, geolocation information of the computing device of the first candidate user matching a target location in the first set of target locations:

processing, by the processor, a distribution of a first quantity of distributed ledger data to the first candidate user; and

responsive to the processor obtaining, from a computing device of the second candidate user, geolocation information of the computing device of the second candidate user matching a target location in the second set of target locations:

processing, by the processor, a distribution of a second quantity of distributed ledger data to the second candidate user.

20. The method of claim 19,

wherein the processing, by the processor, of the distribution of the first quantity of distributed ledger data to the first candidate user includes recording, by the processor in a distributed ledger, the distribution of the first quantity of distributed ledger data to the first candidate user; and

wherein the processing, by the processor, of the distribution of the second quantity of distributed ledger data to the second candidate user includes recording, by the processor in the distributed ledger, the distribution of the second quantity of distributed ledger data to the second candidate user.

21. The method of claim 19, wherein the first and second set of target locations are determined based on the request.

22. The method of claim 19,

wherein the first set of target locations is determined based on geolocation information of the computing device of the first candidate user; and

wherein the second set of target locations is determined based on geolocation information of the computing device of the second candidate user.

23. The method of claim 19, further comprising:

providing, from the processor to the computing device of the first candidate user, a first notification, the first notification including information pertaining to at least one of the target locations in the first set of target locations; and

providing, from the processor to the computing device of the second candidate user, a second notification, the second notification including information pertaining to at least one of the target locations in the second set of target locations.

24. The method of claim 19, wherein the distributed ledger data includes a digital token or a cryptocurrency.

25. A method of managing distributed ledger data, the method comprising:

receiving, at a processor, a request to distribute distributed ledger data;

extracting, by the processor, one or more target locations and one or more desired user attributes from the request;

communicating, between the processor and computing devices of a plurality of users, the communicating including obtaining, by the processor, geolocation information of the computing device of each user;

processing, by the processor, the obtained geolocation information, including a geolocation of a computing device of a first candidate user; and

responsive to the processor determining that the geolocation of the computing device of the first candidate user is within a threshold distance of one of the target locations:

searching a database for stored attributes of the first candidate user;

comparing the stored attributes of the first candidate user to the one or more desired user attributes; and

providing a quantity of the distributed ledger data to the first candidate user when one or more stored attributes of the first candidate user matches one or more of the desired user attributes.

26. A method of managing distributed ledger data, the method comprising:

receiving, at a processor, a request to distribute distributed ledger data;

extracting, from the request, one or more target locations;

communicating, between the processor and computing devices of a plurality of users, the communicating including obtaining, by the processor, geolocation information of the computing device of each user;

processing, by the processor, the obtained geolocation information, including a geolocation of a computing device of a first candidate user; and

responsive to the processor determining that the geolocation of the computing device of the first candidate user is within a threshold distance of one of the target locations:

processing, by the processor, a distribution of one or more distributed ledger data to the first candidate user.