

CLAIMS

1. A method for distributed application distribution, comprising:
 - receiving, at a first decentralized marketplace instance of a decentralized marketplace computer program in a distributed ledger network comprising a plurality of nodes, and from a first node of the plurality of nodes, the first node associated with a distributed application creator, a distributed application, wherein each node of the plurality of nodes hosts an instance of the decentralized marketplace computer program;
 - making available, by the first decentralized marketplace instance, the distributed application to decentralized marketplace instances at the plurality of nodes in the distributed ledger network, wherein the first node is configured to provide the distributed application to a second node in the distributed ledger network, the second node associated with a distributed application collaborator;
 - receiving, at a second decentralized marketplace instance of the decentralized marketplace computer program and from the second node, a modified version of the distributed application; and
 - making available, by the second decentralized marketplace instance, the modified version of the distributed application to the decentralized marketplace instances at the plurality of nodes in the distributed ledger network, wherein the second node is configured to provide the distributed application to a third node in the distributed ledger network, the third node associated with a distributed application consumer.
2. The method of claim 1, wherein the distributed ledger network comprises a peer-to-peer network.

3. The method of claim 1, wherein the distributed ledger network is a permissioned network.

4. The method of claim 1, wherein the decentralized marketplace instances are provided as applications at each node in the distributed ledger network.

5. The method of claim 1, wherein the modified version of the distributed application interacts with a service provided by the first node or the second node.

6. The method of claim 1, wherein the step of making available, by the first decentralized marketplace instance, the distributed application to decentralized marketplace instances at the plurality of nodes in the distributed ledger network comprises notifying, by the first decentralized marketplace instance, the decentralized marketplace instances at the plurality of nodes in the distributed ledger network of availability of the distributed application.

7. The method of claim 1, wherein the distributed application creator directly pays the distributed application creator for the distributed application.

8. The method of claim 1, wherein the distributed application consumer directly pays the distributed application creator for the distributed application and the distributed application collaborator for the modified distributed application.

9. A decentralized application marketplace, comprising:

a distributed ledger network comprising a plurality of nodes, each node executing a decentralized marketplace instance of a decentralized marketplace computer program;

a distributed application creator associated with a first node of the plurality of nodes;

a distributed application collaborator associated with a second node of the plurality of nodes; and

a distributed application consumer associated with a third node of the plurality of nodes;

wherein:

a first decentralized marketplace instance at the first node receives a distributed application from the distributed application creator;

the first decentralized marketplace instance makes the distributed application available to decentralized marketplace instances at the plurality of nodes in the distributed ledger network;

the first node provides the distributed application to the second node in the distributed ledger network;

a second decentralized marketplace instance receives a modified version of the distributed application from the distributed application collaborator;

the second decentralized marketplace instance makes the modified distributed application available to decentralized marketplace instances at the plurality of nodes in the distributed ledger network; and

the second node provides the modified distributed application to the third node in the distributed ledger network.

10. The decentralized application of claim 9, wherein the distributed ledger network comprises a peer-to-peer network.

11. The decentralized application of claim 9, wherein the distributed ledger network is a permissioned network.

12. The decentralized application of claim 9, wherein the decentralized marketplace instances are provided as applications at each node in the distributed ledger network.

13. The decentralized application of claim 9, wherein the modified version of the distributed application interacts with a service provided by the first node or the second node.

14. The decentralized application of claim 9, wherein the distributed application creator directly pays the distributed application creator for the distributed application.

15. The decentralized application of claim 9, wherein the distributed application consumer directly pays the distributed application creator for the distributed application and the distributed application collaborator for the modified distributed application.

16. A method for distributed application use in a distributed ledger network, comprising:

receiving, by a first instance of a distributed application at a first node in a distributed ledger network comprising a plurality of nodes, a query for a service or

data from a second instance of the distributed ledger at a second node in the distributed ledger network;

submitting, by the first instance of a distributed application, the query to the second instance of the distributed application;

executing, by the second instance of the distributed application, the query against local data or services available to the second instance of the distributed application;

returning, by the second instance of the distributed application, a result of the execution to the first instance of the distributed application; and

outputting, by the first instance of the distributed application, the result.

17. The method of claim 16, wherein the query comprises permission for the second node to execute the query.

18. The method of claim 16, wherein the query is communicated to a plurality of distributed application instances in the distributed ledger network.

19. The method of claim 16, wherein the distributed ledger network comprises a permissioned network.

20. The method of claim 16, wherein a first entity associated with the first instance of the distributed application directly pays a second entity associated with the second instance of the distributed application.