What is claimed is:

1. An application server for logistics tracking and source tracing of an object, comprising:

a memory and a processor, the memory being stored with machine executable instructions that, when executed by the processor, cause the application server to perform operations including:

receiving a storage request from at least one node during a logistics process of the object, the storage request including a unique identification number of the object and information of the object at the at least one node, wherein the unique identification number of the object is a public key of an Internet of Things (IoT) device that is inseparable from the object during the logistics process, wherein the IoT device includes a readable memory and an unreadable memory, wherein the readable memory includes the unique identification number, and wherein the unreadable memory includes a private key;

performing a hash operation on the information to obtain a hash value of the information;

sending the hash value of the information and the information to a distributed database for storage; and

sending the unique identification number of the object and the hash value of the information to a block chain platform for storage.

2. The application server of claim 1, wherein the operations further include:

receiving a query request from a user terminal, the query request including the unique identification number of the object;

obtaining, from the block chain platform based on the unique identification number of the object, the hash value of the information of the object at the at least one node during the logistics process of the object, in response to the query request;

extracting, from the distributed database based on the hash value of the information of the object at the at least one node during the logistics process of the object, the information of the object at the at least one node during the logistics process of the object; and

sending the information to the user terminal.

3. The application server according to claim 1 or 2, wherein the at least one node includes a first node, and the information of the object at the at least one node includes basic information of the object that will not change during entire logistics process of the object.

4. The application server of claim 3, wherein the basic information of the object includes at least one of a name, a quantity, a picture, a video, a producer, and a place of production of the object.

5. The application server of claim 1 or 2, wherein the at least one node includes one or more second nodes, and the information of the object at the at least one node includes dynamic information of the object at each of the one or more second nodes, the dynamic information including operation information of the object at the second node and a time stamp of the operation information.

6. The application server of claim 5, wherein the dynamic information of the object includes at least one of an identifier of the second node, an arrival time of the object at the second node, a departure time of the object from the second node, an operation performed by the second node on the object, and location information of the second node.

7. A method for logistics tracking and source tracing of an object, comprising:

binding an Internet of Things (IoT) device to the object such that the IoT device is inseparable from the object during a logistics process, wherein the IoT device includes a readable memory and an unreadable memory, wherein the readable memory includes a unique identification number of the object that is a public key of the IoT device, and wherein the unreadable memory includes a private key;

receiving a storage request from at least one node during the logistics process of the object, the storage request including the unique identification number of the object and information of the object at the at least one node;

performing a hash operation on the information to obtain a hash value of the information;

sending the hash value of the information and the information to a distributed database for storage; and

sending the unique identification number of the object and the hash value of the information to a block chain platform for storage.

8. The method of claim 7, further comprising:

receiving a query request from a user terminal, the query request including the unique identification number of the object;

obtaining, from the block chain platform based on the unique identification number of the object, the hash value of the information of the object at the at least one node during the logistics process of the object, in response to the query request;

extracting, from the distributed database based on the hash value of the information of the object at the at least one node during the logistics process of the object, the information of the object at the at least one node during the logistics process of the object; and

sending the information to the user terminal.

9. The method according to claim 7 or 8, wherein the at least one node includes a first node, and the information of the object at the at least one node includes basic information of the object that will not change during entire logistics process of the object.

10. The method of claim 9, wherein the basic information of the object includes at least one of a name, a quantity, a picture, a video, a producer, and a place of production of the object.

11. The method of claim 7 or 8, wherein the at least one node includes one or more second nodes, and the information of the object at the at least one node includes dynamic information of the object at each of the one or more second nodes, the dynamic information including operation information of the object at the second node and a time stamp of the operation information.

12. The method of claim 11, wherein the dynamic information of the object includes at least one of an identifier of the second node, an arrival time of the object at the second

node, a departure time of the object from the second node, an operation performed by the second node on the object, and location information of the second node.

13. A nonvolatile computer readable storage medium for logistics tracking and source tracing of an object comprising machine executable instructions that, when executed by a machine, are adapted to cause a machine to implement the method as any of claims 7-12.

14. A block chain node for logistics tracking and source tracing of an object comprising:

a memory and a processor, the memory being stored with machine executable instructions that, when executed by the processor, cause the block chain node to perform operations including:

receiving a storage request from an application server, the storage request including a unique identification number of the object and a hash value of information of the object at at least one node during a logistics process of the object, wherein the unique identification number of the object is a public key of an Internet of Things (IoT) device that is inseparable from the object during the logistics process, wherein the IoT device includes a readable memory and an unreadable memory, wherein the readable memory includes the unique identification number, and wherein the unreadable memory includes a private key; and

distributing the unique identification number of the object and the hash value of the information to one or more other block chain nodes by using a smart contract.

15. The block chain node of claim 14, wherein the operations further include:

receiving a query request from the application server, the query request including the unique identification number of the object; and

providing the application server with the hash value of the information of the object at the at least one node during the logistics process by using the smart contract, in response to the query request.

16. The block chain node of claim 14 or 15, wherein the at least one node includes a first node, and the information of the object at the at least one node includes basic information of the object that will not change during entire logistics process of the object, and wherein the smart contract includes a first smart contract.

17. The block chain node of claim 16, wherein the basic information of the object includes at least one of a name, a quantity, a picture, a video, a producer, and a place of production of the object.

18. The block chain node of claim 14 or 15, wherein the at least one node includes one or more second nodes, and the information of the object at the at least one node includes dynamic information of the object at each of the one or more second nodes, the dynamic information including operation information of the object at the second node and a time stamp of the operation information, and wherein the smart contract includes a second smart contract.

19. The block chain node of claim 18, wherein the dynamic information of the object includes at least one of an identifier of the second node, an arrival time of the object at the second node, a departure time of the object from the second node, an operation performed by the second node on the object, and location information of the second node.

20. A method for logistics tracking and source tracing of an object, comprising:

receiving a storage request from an application server, the storage request including a unique identification number of the object and a hash value of information of the object at at least one node during a logistics process of the object, wherein the unique identification number of the object is a public key of an Internet of Things (IoT) device that is inseparable from the object during the logistics process, wherein the IoT device includes a readable memory and an unreadable memory, wherein the readable memory includes the unique identification number, and wherein the unreadable memory includes a private key; and

distributing the unique identification number of the object and the hash value of the information to one or more other block chain nodes by using a smart contract.

21. The method of claim 20, further comprising:

receiving a query request from the application server, the query request including the unique identification number of the object; and

providing the application server with the hash value of the information of the object at the at least one node during the logistics process by using the smart contract, in response to the query request.

22. The method of claim 20 or 21, wherein the at least one node includes a first node, and the information of the object at the at least one node includes basic information of the object that will not change during entire logistics process of the object, and wherein the smart contract includes a first smart contract.

23. The method of claim 22, wherein the basic information of the object includes at least one of a name, a quantity, a picture, a video, a producer, and a place of production of the object.

24. The method of claim 20 or 21, wherein the at least one node includes one or more second nodes, and the information of the object at the at least one node includes dynamic information of the object at each of the one or more second nodes, the dynamic information including operation information of the object at the second node and a time stamp of the operation information, and wherein the smart contract includes a second smart contract.

25. The method of claim 24, wherein the dynamic information of the object includes at least one of an identifier of the second node, an arrival time of the object at the second node, a departure time of the object from the second node, an operation performed by the second node on the object, and location information of the second node.

26. A nonvolatile computer readable storage medium for logistics tracking and source tracing of an object comprising machine executable instructions that, when executed by a machine, are adapted to cause a machine to implement the method as any of claims 20-25.