CLAIMS

1. A system for processing data, the system comprising:

a service platform comprising a plurality of service modules and an application programming interface layer comprising a plurality of application programming interfaces (APIs) to enable users to invoke the service modules to process information related to an order associated with importation of a merchandise, wherein the information is provided, or to be provided, to a service authority for requesting clearance for the merchandize associated with the order;

wherein a first application programming interface of the plurality of application programming interfaces enables a user of the service platform to invoke a smart contract on a first blockchain managed by a blockchain network, in which the smart contract performs at least one of processing of the information or processing of information related to another user of the service platform; and

wherein the first application programming interface enables the user to invoke the smart contract to store an immutable portion of the information on the first blockchain through consensus of blockchain nodes of the blockchain network, and

store a mutable portion of the information on a smart contract data cache, in which the information are associated with the order.

2. The system of claim 1, wherein the first application programming interface enables the user to invoke the smart contract to store the information on the first blockchain through consensus of blockchain nodes of the blockchain network, in which the information is associated with the order.

3. The system of claim 1, wherein the first application programming interface enables the user to invoke the smart contract to store the information on a smart contract data cache, in which the information is associated with the order.

4. The system of any one of claims 1 to 3, wherein a transaction hash of the mutable portion is stored with the immutable portion on the blockchain, so that the mutable portion and the immutable portion are linked.

5. The system of any one of claims 1 to 4, wherein a transaction hash of the immutable portion is stored with the mutable portion in the smart contract data cache, so that the immutable portion and the mutable portion are linked.

6. The system of any one of claims 1 to 5, wherein the information includes added index data linking the mutable portion and the immutable portion.

7. The system of any of claims 1 to 6 in which the information comprises at least one of order data, logistics data, payment data, updated order data, updated logistics data, or updated payment data.

8. The system of claim 7 in which the information comprises at least one of encrypted order data, encrypted logistics data, encrypted payment data, encrypted updated order data, encrypted updated logistics data, or encrypted updated payment data.

9. The system of claim 1, wherein the first application programming interface enables an administrator to invoke the smart contract to record information about a user of the service platform on the first blockchain through consensus of blockchain nodes of the blockchain network.

10. The system of claim 1, wherein the first application programming interface enables an administrator to invoke the smart contract to record information about a user of the service platform on a smart contract data cache.

11. The system of claim 1, wherein the first application programming interface enables an administrator to invoke the smart contract to record an immutable portion of information about a user of the service platform on the first blockchain through consensus of blockchain nodes of the blockchain network and record a mutable portion of the information about a user of the service platform on a smart contract data cache.

12. The system of any of claims 9 to 11, wherein the information about the user of the service platform comprises at least one of (i) information indicating that the user has been added to a list of members authorized to use the service platform, (ii) information indicating that the user has been removed from a list of members authorized to use the service platform, (iii) information indicating that the user has been added to a list of members authorized to use a particular function of the service platform, or (iv) information indicating that the user has been removed from a list of members authorized to use a particular function of the service platform.

13. The system of any of claims 9 to 11, wherein the information about the user of the service platform comprises at least one of (i) information indicating that the user has been added to a list of members authorized to access custom clearance data associated with a particular import order, or (ii) information indicating that the user has been removed from a list of members authorized to access custom clearance data associated with a particular import order.

14. The system of claim 13, wherein the information about the user of the service platform comprises at least one of (i) information indicating that the user has been added to a list of members authorized to access order data associated with a particular import order, (ii) information indicating that the user has been removed from a list of members authorized to access order data associated with a particular import order, (iii) information indicating that the user has been added to a list of members authorized to access logistics data associated with a particular import order, (iv) information indicating that the user has been removed from a list of members authorized to access logistics data associated with a particular import order, (v) information indicating that the user has been added to a list of members authorized to access payment data associated with a particular import order, or (vi) information indicating that the user has been removed from a list of members authorized to access payment data associated with a particular import order.

15. The system of claim 1, wherein the information is import custom clearance information, the service authority is custom authority for custom clearance of the merchandize associated with the order, and the order is an import order.