

AMENDED CLAIMS

What is claimed is:

1. A method for data synchronization, performed by a computer device, wherein the method comprises:

receiving a piece of transaction data, wherein the piece of transaction data carries an update-operation identifier and a sensitive phrase corresponding to the update-operation identifier, wherein the update-operation identifier indicates an update operation to be performed by the computer device with respect to the sensitive phrase;

obtaining the update-operation identifier and the sensitive phrase from a target block comprising the piece of transaction data, in a case that the target block is stored into a blockchain of a blockchain system; and

updating a database of sensitive phrases according to the update-operation identifier and the sensitive phrase from the target block, wherein the database is locally stored at the computer device and serves as a basis for the computer device filtering content of a block queried at the computer device.

2. The method according to claim 1, wherein updating the database of sensitive phrases according to the update-operation identifier and the sensitive phrase from the target block comprises:

adding a sensitive phrase corresponding to an addition identifier into the database of sensitive phrases, in a case that the update-operation identifier in the piece of transaction data is the addition identifier; or

deleting a sensitive phrase corresponding to a deletion identifier from the database of sensitive phrases, in a case that the update-operation identifier in the piece of transaction data is the deletion identifier.

3. The method according to claim 2, wherein adding the sensitive phrase corresponding to the addition identifier into the database of sensitive phrases in the case that the update-operation identifier in the piece of transaction data is the addition identifier comprises:

searching the database of sensitive phrases for the sensitive phrase corresponding to the addition identifier, in the case that the update-operation identifier in the piece of transaction data is the addition identifier; and

adding the sensitive phrase corresponding to the addition identifier into the database of sensitive phrases, in a case that the sensitive phrase corresponding to the addition identifier is not comprised in the database of sensitive phrases.

4. The method according to claim 1, wherein obtaining the update-operation identifier and the sensitive phrase from the target block comprises:

obtaining the update-operation identifier and the sensitive phrase data from a piece of transaction data in the target block, in a case that the piece of transaction data in the target block carries a supervision identifier.

5. The method according to claim 4, wherein the supervision identifier comprises a signature of the supervisory node device or an address of the supervisory node device.

6. The method according to claim 1, further comprising:

determining a block corresponding to a block number carried in a query request, in the blockchain of the blockchain system and according to the block number;

comparing at least one piece of transaction data in the block corresponding to the block number, with a sensitive phrase in the database of sensitive phrases; and

filtering a first piece of transaction data by screening the sensitive phrase in the database of sensitive phrases, to obtain query feedback information, in a case that the at least one piece of transaction data comprises the first piece of transaction data;

wherein the query feedback information comprises the at least one piece of transaction data obtained subject to the filtering, and the first piece of transaction data comprises the sensitive phrase in the database of sensitive phrases.

7. The method according to claim 6, wherein comparing the at least one piece of transaction data in the block corresponding to the block number with the sensitive phrase in the database of sensitive phrases comprises:

comparing a plurality of sensitive phrases in the database of sensitive phrases, one by one in an descending order of weights of the plurality of sensitive phrases, with the at least one piece of transaction data in the block,

wherein the weight is determined according to times of an adding operation performed on the corresponding sensitive phrase.

8. The method according to claim 6, wherein filtering the first piece of transaction data by screening the sensitive phrase in the database of sensitive phrases to obtain the query feedback

information, in the case that the at least one piece of transaction data comprises the first piece of transaction data, comprises:

deleting the sensitive phrase in the database of sensitive phrases from the first piece of transaction data to obtain the query feedback information, in the case that the at least one piece of transaction data comprises the first piece of transaction data, wherein the query feedback information comprises the at least one piece of transaction subject to the deleting; or

replacing the sensitive phrase in the first piece of transaction data with a target warning phrase to obtain the query feedback information, in a case that the at least one piece of transaction data comprises the first piece of transaction data, wherein the query feedback information comprises the at least one piece of transaction data subject to the replacing.

9. An apparatus for data synchronization, comprising:

a receiving module, configured to receive a piece of transaction data, wherein the piece of transaction data carries an update-operation identifier and a sensitive phrase corresponding to the update-operation identifier, wherein the update-operation identifier indicates an update operation to be performed by the computer device with respect to the sensitive phrase;

an obtaining module, configured to obtain the update-operation identifier and the sensitive phrase from a target block comprising the piece of transaction data, in a case that the target block is stored into a blockchain of a blockchain system; and

an update module, configured to update a database of sensitive phrases according to the update-operation identifier and the sensitive phrase from the target block, wherein the database is locally stored at the computer device and serves as a basis for the computer device filtering content of a block queried at the computer device.

10. The apparatus according to claim 9, wherein the update module comprises:

an addition unit, configured to add a sensitive phrase corresponding to an addition identifier into the database of sensitive phrases, in a case that the update-operation identifier in the piece of transaction data is the addition identifier; or

a deletion unit, configured to delete a sensitive phrase corresponding to a deletion identifier from the database of sensitive phrases, in a case that the update-operation identifier in the piece of transaction data is the deletion identifier.

11. The apparatus according to claim 10, wherein the addition unit is configured to:

search the database of sensitive phrases for the sensitive phrase corresponding to the addition

identifier, in the case that the update-operation identifier in the piece of transaction data is the addition identifier, and

add the sensitive phrase corresponding to the addition identifier into the database of sensitive phrases, in a case that the sensitive phrase corresponding to the addition identifier is not comprised in the database of sensitive phrases.

12. The apparatus according to claim 9, wherein the obtaining module is configured to obtain the update-operation identifier and the sensitive phrase data from a piece of transaction data in the target block, in a case that the piece of transaction data in the target block carries a supervision identifier.

13. The apparatus according to claim 9, further comprising:

a determination module, configured to determine a block corresponding to a block number carried in a query request, in the blockchain of the blockchain system and according to the block number;

a comparison module, configured to compare at least one piece of transaction data in the block corresponding to the block number, with a sensitive phrase in the database of sensitive phrases; and

a filtering module, configured to filter a first piece of transaction data by screening the sensitive phrase in the database of sensitive phrases, to obtain query feedback information, in a case that the at least one piece of transaction data comprises the first piece of transaction data;

wherein the query feedback information comprises the at least one piece of transaction data obtained subject to the filtering, and the first piece of transaction data comprises the sensitive phrase in the database of sensitive phrases.

14. A computer device, comprising a memory and a processor, wherein the memory stores computer-readable instructions, and the computer-readable instructions when executed by the processor configure the processor to perform the method according to any one of claims 1 to 8.

15. A non-volatile storage medium, storing computer-readable instructions, wherein the computer-readable instructions when executed by one or more processors configured the one or more processors to perform the method according to any one of claims 1 to 8.