

CLAIMS

1. A method for service execution, the method comprising:

receiving, by a service platform, a qualification acquisition request sent by an end-user device for a service;

returning a qualification acquisition rule and a result generation rule to the end-user device based on the qualification acquisition request so that the end-user device generates a to-be-verified result corresponding to the result generation rule, performs consensus processing on a preprocessing block that comprises the to-be-verified result and a user identifier, and writes the preprocessing block as a blockchain block to a blockchain after a consensus is reached, wherein the result generation rule is adjustable based on one or more service parameters (S102);

in response to determining that the service satisfies a predetermined condition, obtaining a blockchain from at least one end-user device;

selecting at least one block that satisfies the qualification acquisition rule from the blockchain; and

executing the service for a user that corresponds to a user identifier comprised in the at least one block.

2. The method according to claim 1, wherein determining that the service satisfies the predetermined condition comprises:

determining that the service satisfies the predetermined condition in response to determining that a specified time of the service arrives; or

obtaining the blockchain corresponding to the service from the at least one end-user device.

3. The method according to claim 2, further comprising:

determining a number of blocks comprised in the blockchain; and

determining that the service satisfies the predetermined condition in response to determining that the number is not less than the number of blocks that is specified for the service.

4. The method according to claim 1, wherein selecting the at least one block that satisfies the qualification acquisition rule from the blockchain comprises:

selecting a main chain from the blockchain; and

selecting the at least one block that satisfies the qualification acquisition rule from the main chain.

5. The method according to claim 4, wherein selecting the main chain from the blockchain comprises:

selecting the longest chain in the blockchain as the main chain.

6. The method according to claim 1, wherein selecting the at least one block that satisfies the qualification acquisition rule from the blockchain comprises:

determining a location of each block in the blockchain; and

determining that each block satisfies the qualification acquisition rule in response to determining that the location of each block in the blockchain is specified in the qualification acquisition rule.

7. The method according to claim 1, wherein preprocessing the block comprises a generation time of the to-be-verified result.

8. The method according to claim 7, wherein selecting the at least one block that satisfies the qualification acquisition rule from the blockchain comprises:

determining, based on a generation time of a to-be-verified result comprised in each block in the blockchain, one or more blocks generated in a time period specified for the service; and

selecting the at least one block that satisfies the qualification acquisition rule from the one or more blocks.

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

publishing the user identifier comprised in the at least one block.

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

providing, by the service platform, qualification confirmation information so that the service platform selects at least one block that satisfies the qualification acquisition rule from the blockchain.

11. The method according to claim 1, wherein performing the consensus processing on the preprocessing block comprises:

obtaining an address of the another end-user device from the service platform, wherein the address of the another end-user device is obtained from the another end-user device when the service platform receives a qualification acquisition request sent by the another end-user device for the service; and

sending the preprocessing block to the another end-user device based on the address of the another end-user device.

12. The method according to claim 8, wherein the qualification acquisition rule comprises a dimension of a block in the blockchain that is qualified to execute the service.

13. A device for service execution, the device comprising a plurality of modules configured to perform the method of any one of claims 1 to 12.