

CLAIMS

1. A method of verifying a user identity, the method comprising:
receiving a user request of an operation related to a security property of a user requiring an identity verification of the user;
determining a current local time at which the user request was received (S101);
determining whether the user failed to gain identity verification in a predetermined duration prior to the current local time using a verification method (S102); and
in response to determining that the user failed to gain identity verification, performing the identity verification on the user by using the verification method, in which the user failed to gain verification (S103).

2. The method according to claim 1, wherein obtaining the verification method, in which the user failed to gain identity verification in predetermined duration prior to the current time comprises:

determining a verification method list, wherein each row in the verification method list comprises at least one verification method (S201);

removing, from the verification method list, the verification method in which the user is verified in the predetermined duration prior to the current time (S202); and

determining a verification method in one row in a post-removal verification method list (S203).

3. The method according to claim 2, wherein removing, from the verification method list, the verification method in which the user is verified in the predetermined duration prior to the current time comprises:

determining a locally stored correspondence between the verification method and a passing time;

searching the correspondence for the verification method corresponding to a passing time, wherein a difference between the passing time and the current time is smaller than the predetermined duration; and

deleting the identified verification method from the verification method list.

4. The method according to claim 3, wherein the method further comprises:

when the user is verified in the verification method in which the user is previously unverified, determining a current local time and determining the current local time as a passing time when the user is verified in the verification method in which the user is previously unverified; and

substituting, in the correspondence, the determined passing time for a passing time corresponding to the verification method in which the user is previously unverified.

5. The method according to any one of claims 2 to 4, after removing, from the verification method list, the verification method in which the user is verified in the predetermined duration prior to the current time, further comprising:

determining whether the number of rows in the post-removal verification method list is smaller than the number of rows in the pre-removal verification method list (S301); and

if the number of rows in the post-removal verification method list is smaller than the number of rows in the pre-removal verification method list, determining that the user is currently verified (S302); or

if the number of rows in the post-removal verification method list is equal to the number of rows in the pre-removal verification method list, performing the step of determining a verification method in one row in a post-removal verification method list.

6. The method according to any one of claims 2 to 5, further comprising:

determining the verification method that has not been used to perform verification on the user in predetermined duration prior to the current time (S402); and

performing verification on the user by using the unused verification method (S403).

7. The method according to claim 6, wherein determining the verification method that has not been used to perform verification on the user in predetermined duration prior to the current time comprises:

determining the verification method list, wherein each row in the verification method list comprises at least one verification method;

removing, from the verification method list, the verification method that has been used to

perform identity verification on the user in the predetermined duration prior to the current time;
and

determining the verification method in one row in a post-removal verification method list.

8. The method according to claim 7, wherein removing, from the verification method list, the verification method that has been used to perform verification on the user in the predetermined duration prior to the current time comprises:

determining a locally stored correspondence between the verification method and the verification time;

searching the correspondence for the verification method corresponding to the verification time, wherein a difference between the verification time and the current time is smaller than the predetermined duration; and

deleting the identified verification method from the verification method list.

9. The method according to claim 8, wherein the method further comprises:

if verification is performed on the user by using the unused verification method, determining the current local time and determining the current local time as a verification time of performing verification on the user by using the unused verification method; and

substituting, in the correspondence, the determined verification time for a verification time corresponding to the unused verification method.

10. The method according to any one of claims 7 to 9, further comprising, after removing, from the verification method list, the verification method that has been used to perform identity verification on the user in the predetermined duration prior to the current time:

determining whether the number of rows in the post-removal verification method list is smaller than the number of rows in the pre-removal verification method list; and

when the number of rows in the post-removal verification method list is smaller than the number of rows in the pre-removal verification method list, determining that the user is currently verified; or

when the number of rows in the post-removal verification method list is equal to the number of rows in the pre-removal verification method list, performing the step of determining the

verification method in one row in the post-removal verification method list.

11. The method according to any one of claims 1 to 10, wherein the security property of the user comprises an account password, an online shopping operation, or an online transfer operation.

12. The method according to any one of claims 1 to 10, wherein the verification method comprises transmitting a short message service message, performing a facial verification or transmitting an email.

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