

What Is Claimed Is

1 1. A ~~joint payment~~computer-executed method ~~based on a binding~~
2 ~~relationship,~~ the method comprising:
3 _____

4 receiving, by a client sending server, a joint-payment request to a server,
5 from a terminal device associated with a first user, wherein the joint-payment
6 request corresponds to a payment request carrying an for a service or a product for
7 two or more users, and wherein the joint-payment request includes a first identifier
8 of a joint payment initiator and an identifier corresponding to a current joint object;
9 ~~_____ the server parsing the identifier of first user sending the joint-payment~~
10 ~~initiator and the identifier corresponding to the current joint object carried in the~~
11 ~~received _____ joint _____ payment _____ request;~~
12 ~~_____ the server request;~~

13 determining, according to the identifier of the joint payment initiator and
14 the identifier corresponding to the current joint object, whether based on a status of
15 information exchange between the first user and one or more to-be-included users,
16 that a binding relationship exists between the first user and the one or more to-be-
17 included users, wherein the determining is further based on a frequency and a count
18 of the information exchange satisfying a pre-defined threshold;

19 recommending, to the first user, the one or more to-be-included users for
20 providing the service or the product;

21 receiving, from the first user, selection of at least one to-be-included user
22 for the binding relationship; and

23 in response to determining, based on the first identifier of the first user and
24 a second identifier of the at least one to-be-included user that a binding relationship
25 has been established between the joint payment initiator and the current joint object;
26 ~~_____ if so, the server;~~

27 randomly generating graphic codes respectively corresponding to

1 ~~the joint payment initiator and the current joint object, and sending to a first~~
2 ~~graphic code based on the client the first identifier and a second graphic~~
3 ~~codes respectively corresponding to the joint payment initiator and the~~
4 ~~current joint object~~ code based on the second identifier; and
5 _____

6 transmitting the client receiving the first ~~graphic codes respectively~~
7 ~~corresponding to the joint payment initiator~~ code ~~and the current~~ second
8 graphic code to the terminal device,

9 wherein the first user completes the joint object, and payment by
10 displaying the randomly generated first and second graphic codes respectively
11 ~~corresponding to the joint payment initiator and the current joint object to~~
12 ~~complete joint payment.~~

13 a code scanner.

14 2. ~~The method according to claim 1, wherein the if so, the server~~
15 ~~generating graphic codes respectively corresponding to the joint payment initiator~~
16 ~~and the current joint object comprises:~~
17 ~~_____ if so, the server randomly generating the graphic codes respectively~~
18 ~~corresponding to the joint payment initiator and the current joint object.~~

19 ~~_____ 3. _____ The method according to claim 1, wherein displaying the graphic~~
20 ~~codes respectively corresponding to the joint payment initiator and the current~~
21 ~~joint object to complete joint payment comprises:~~
22 ~~_____ displaying, according to a preset display rule, the graphic codes~~
23 ~~respectively corresponding to the joint payment initiator and the current joint~~
24 ~~object to complete the joint payment.~~

1 ~~4. The method according to claim 1, the method further comprising:~~
2 ~~if not a terminal device is configured to display the randomly generated first~~
3 ~~and second graphic codes based on a predetermined display rule.~~

4 3. The method according to claim 1, further comprising:
5 in response to determining that the binding relationship has not been
6 ~~established between the joint payment initiator and the current joint object,~~
7 ~~notifying the joint payment initiator first user that the joint payment fails;~~ and
8 guiding the joint payment initiator first user to establish a binding relationship
9 with the current joint object.

10 ~~5. A joint payment method based on a binding relationship, applied to~~
11 ~~a client, the method comprising:~~
12 ~~sending a joint payment request to a server, the joint payment request~~
13 ~~carrying an identifier of a joint payment initiator and an identifier corresponding~~
14 ~~to a current joint object;~~
15 ~~receiving graphic codes respectively corresponding to the joint payment~~
16 ~~initiator and the current joint object, wherein generating the graphic codes~~
17 ~~respectively corresponding to the joint payment initiator and the current joint~~
18 ~~object comprises: the server determining, according to the identifier of the joint~~
19 ~~payment initiator and the identifier corresponding to the current joint object~~
20 ~~carried in the joint payment request, whether a binding relationship has been~~
21 ~~established between the joint payment initiator and the current joint object, and if~~
22 ~~so, generating the graphic codes respectively corresponding to the joint payment~~
23 ~~initiator and the current joint object; and~~
24 ~~displaying the graphic codes respectively corresponding to the joint~~
25 ~~payment initiator and the current joint object to complete joint payment.~~

6. A binding based joint payment method, applied to a server, the method comprising:

- receiving a joint payment request sent by a client;
- parsing an identifier of a joint payment initiator and an identifier corresponding to a current joint object carried in the received joint payment request;
- determining, according to the identifier of the joint payment initiator and the identifier corresponding to the current joint object, whether a binding relationship has been established between the joint payment initiator and the current joint object;
- if so, the server generating graphic codes respectively corresponding to the joint payment initiator and the current joint object, and sending to the client the graphic codes respectively corresponding to the joint payment initiator and the current joint object, such that the client receives the graphic codes respectively corresponding to the joint payment initiator and the current joint object, and displays the graphic codes respectively corresponding to the joint payment initiator and the current joint object to complete joint payment at least one to-be-included user.

4. The method according to claim 1, further comprising:
sending a binding request to the at least one to-be-included user; and
receiving a confirmation from the at least one to-be-included user to
 establish the binding relationship between the specified user and the first user.

5. The method according to claim 1, wherein determining that the binding relationship exists between the first user and the one or more to-be-included users is further based on:

determining a degree of closeness between the first user and the one or more
to-be-included users;

determining whether the degree of closeness meets a preset requirement;

1 and

2 determining members of a family account activated by the first user.

4 6. A computer system, comprising:

5 a processor;

6 a storage device coupled to the

7 ~~7. A joint payment system based on a binding relationship, the~~
8 ~~system comprising a client and a server:~~

9 ~~—— the client sending a joint payment request to the server, the joint payment~~
10 ~~request carrying an identifier of a joint payment initiator and an identifier~~
11 ~~corresponding to a current joint object;~~

12 ~~—— the server parsing the identifier of the joint payment initiator and the~~
13 ~~identifier corresponding to the current joint object carried in the received joint~~
14 ~~payment request;~~

15 ~~—— the server determining, according to the identifier of the joint payment~~
16 ~~initiator and the identifier corresponding to the current joint object, whether a~~
17 ~~binding relationship has been established between the joint payment initiator and~~
18 ~~the current joint object;~~

19 ~~—— if the binding relationship has been established, the server generating~~
20 ~~graphic codes respectively corresponding to the joint payment initiator and the~~
21 ~~current joint object, and sending to the client the graphic codes respectively~~
22 ~~corresponding to the joint payment initiator and the current joint object; and~~

23 ~~—— the client receiving the graphic codes respectively corresponding to the~~
24 ~~joint payment initiator and the current joint object, and displaying the graphic~~
25 ~~codes respectively corresponding to the joint payment initiator and the current~~
26 ~~joint object to complete joint payment.~~

1 ~~8.~~ The system according to claim 7, wherein the server specifically
2 generates, in the following manner, the graphic codes respectively corresponding
3 to the joint payment initiator and the current joint object:

4 ~~if the binding relationship has been established, the server randomly~~
5 ~~generating the graphic codes respectively corresponding to the joint payment~~
6 ~~initiator and the current joint object.~~

7 ~~9.~~ The system according to claim 7, wherein the client specifically
8 displays, in the following manner, the graphic codes respectively corresponding to
9 the joint payment initiator and the current joint object to complete the joint
10 payment:

11 ~~displaying, according to a preset display rule, the graphic codes~~
12 ~~respectively corresponding to the joint payment initiator and the current joint~~
13 ~~object to complete the joint payment.~~

14 ~~10.~~ The system according to claim 7, wherein the server is configured
15 to:

16 ~~if no binding relationship has been established between the joint payment~~
17 ~~initiator and the current joint object, notify the joint payment initiator that joint~~
18 ~~payment fails, and guide the joint payment initiator to establish binding with the~~
19 ~~current joint object.~~

20 ~~11.~~ A joint payment apparatus based on a binding relationship, applied
21 to a client, the apparatus comprising:

22 ~~a request sending module configured to send a joint payment request to a~~
23 ~~server, the joint payment request carrying an identifier of a joint payment initiator~~
24 ~~and an identifier corresponding to a current joint object;~~

25 ~~a graphic code receiving module configured to receive graphic codes~~

1 respectively corresponding to the joint payment initiator and the current joint
2 object, wherein generating the graphic codes respectively corresponding to the
3 joint payment initiator and the current joint object comprises: the server
4 determining, according to the identifier of the joint payment initiator and the
5 identifier corresponding to the current joint object carried in the joint payment
6 request, whether a binding relationship has been established between the joint
7 payment initiator and the current joint object, and if so, generating the graphic
8 codes respectively corresponding to the joint payment initiator and the current
9 joint object; and
10 ——— a graphic code displaying module configured to display the graphic codes
11 respectively corresponding to the joint payment initiator and the current joint
12 object to complete joint payment.

13 ——— 12. — A binding based joint payment apparatus, applied to a server, the
14 apparatus comprising:
15 ——— a request receiving module configured to receive a joint payment request
16 sent by a client;
17 ——— an identifier parsing module configured to parse an identifier of a joint
18 payment initiator and an identifier corresponding to a current joint object carried
19 in the received joint payment request;
20 ——— a determining module configured to determine, according to the identifier
21 of the joint payment initiator and the identifier corresponding to the current joint
22 object, whether a binding relationship has been established between the joint
23 payment initiator and the current joint object; and
24 ——— a graphic code generating module configured to, if the binding
25 relationship has been established, generate graphic codes respectively
26 corresponding to the joint payment initiator and the current joint object, and send
27 to the client the graphic codes respectively corresponding to the joint payment

1 initiator and the current joint object, such that the client receives the graphic codes
2 respectively corresponding to the joint payment initiator and the current joint
3 object, and displays the graphic codes respectively corresponding to the joint
4 payment initiator and the current joint object to complete joint payment.

5 ~~13.~~ A computer device, comprising a memory, a processor, and
6 a computer program stored in the memory and executable and storing instructions,
7 which when executed by the processor, cause the processor to perform a method,
8 the method comprising:

9 receiving a joint-payment request from a terminal device associated with a first
10 user, wherein the joint-payment request corresponds to a payment for a service or
11 a product for two or more users, and wherein the processor executes the program
12 to implement the method according to claim 5.

13 ~~14.~~ A computer device, comprising a memory, joint-
14 payment request includes a first identifier of the first user sending the joint-
15 payment request;

16 determining, based on a processor, status of information exchange
17 between the first user and one or more to-be-included users, that a computer
18 program stored in the memory binding relationship exists between the first
19 user and executable by the processor the one or more to-be-included users,
20 wherein the processor executes the program determining is further based on
21 a frequency and a count of the information exchange satisfying a pre-
22 defined threshold;

23 recommending, to the first user, the one or more to-be-included
24 users for providing the service or the product;

25 receiving, from the first user, selection of at least one to-be-included
26 user for the binding relationship; and

1 in response to determining, based on the first identifier of the first
2 user and a second identifier of the at least one to-be-included user that a
3 binding relationship has been established,

4 randomly generating a first graphic code based on the first
5 identifier and a second graphic code based on the second identifier;
6 and

7 transmitting the first graphic code and the second graphic
8 code to the terminal device,

9 wherein the first user completes the joint payment by
10 displaying the randomly generated first and second graphic codes to
11 a code scanner.

12 7. ~~implement the method~~The computer system according to claim 6,
13 wherein the terminal device is configured to display the randomly generated first
14 and second graphic codes based on a predetermined display rule.

15 8. ~~The computer system according to claim 6, wherein the method~~
16 further comprises:

17 in response to determining that the binding relationship has not been
18 established, notifying the first user that the joint payment fails; and
19 guiding the first user to establish a binding relationship with the at least
20 one to-be-included user.

21
22 9. The computer system according to claim 6, wherein the method
23 further comprises:

24 sending a binding request to the at least one to-be-included user; and
25 receiving a confirmation from the at least one to-be included user to
26 establish the binding relationship between the specified user and the first user.

27

1 10. The computer system according to claim 6, wherein determining
2 that the binding relationship exists between the first user and the one or more to-
3 be-included users is further based on:
4 determining a degree of closeness between the first user and the one or more
5 to-be-included users;
6 determining whether the degree of closeness meets a preset requirement;
7 and
8 determining members of a family account activated by the first user.
9 _____