

CLAIMS

~~What is claimed is:~~

1. ~~—~~ An electronic-certificate-based interaction method, wherein the method
 5 comprises:
 outputting (102), by a client, in response to an interaction operation initiated by a first user, a list of users that have social relationships with the first user and hold electronic certificates;
 obtaining (104), by the client, a second user selected by the first user from the user
 10 list;
 sending, by the client, an electronic certificate acquisition request to a server, wherein the electronic certificate acquisition request comprises a user identifier of the second user, so that the server selects (106) a first electronic certificate from electronic certificates held by the second user, and generates a second electronic certificate of
 15 the same category as the first electronic certificate, wherein a corresponding selection probability value is predetermined for each category of electronic certificate, and the selecting, by the server, a first electronic certificate from electronic certificates held by the second user comprises: randomly selecting, by the server, the first electronic certificate for the first user from the electronic certificates held by the second user
 20 based on the selection probability value of each category of electronic certificate, and wherein the first and the second electronic certificate comprises a character string, a number, and/or a password; and
 obtaining (108), by the client, the second electronic certificate delivered by the server, and locally storing the second electronic certificate, wherein the first user obtains an
 25 allocation permission of a virtual object in a predetermined virtual object set when a category quantity of obtained electronic certificates reaches a predetermined threshold.
2. ~~—~~ The method according to claim 1, wherein the locally storing the obtained
 30 electronic certificate comprises:
 generating, by the client, a corresponding display picture for the obtained electronic certificate; and
 adding, by the client, the generated display picture to a display position corresponding to the electronic certificate in an electronic certificate display interface, ~~wherein~~

wherein display pictures generated for different categories of electronic certificates are different from each other, and display positions corresponding to different categories of electronic certificates in the electronic certificate display interface are different from each other.

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3.—The method according to claim 42, wherein the electronic certificate display interface further comprises a display position corresponding to a virtual item; and the method further comprises:

generating, by the client, a corresponding display picture for an obtained virtual item;

10 and

adding, by the client, the generated display picture to a display position corresponding to the virtual item in an electronic certificate display interface.

4.—The method according to claim 3, wherein the outputting, by the client, in response to an interaction operation initiated by a first user, a list of users that have social relationships with the first user and hold electronic certificates comprises:

15 outputting, by the client, a detail interface corresponding to the virtual item in response to a detected trigger operation of the first user for the display picture corresponding to the virtual item, wherein the detail interface comprises an interaction option; and

20 outputting, by the client, an interaction interface corresponding to the interaction option in response to a trigger operation of the first user for the interaction option, and outputting the list of users that have social relationships with the first user and hold electronic certificates to the first user by using the interaction interface, the list being
25 obtained from the server.

5.—The method according to claim 1, wherein the sending, by the client, an electronic certificate acquisition request to a server comprises:

30 outputting, by the client, an electronic certificate selection interface to the first user, wherein the electronic certificate selection interface comprises several graphical options corresponding to the electronic certificates held by the second user; and sending, by the client, the electronic certificate acquisition request to the server in response to a trigger operation of the first user for any one of the several graphical options.

6.—The method according to claim 1, wherein the virtual object is a virtual red packet.

5 7.—An electronic-certificate-based interaction method, wherein the method comprises:

receiving, by a server, an electronic certificate acquisition request sent by a client device, wherein the electronic certificate acquisition request comprises a user identifier of a second user selected by a first user from a list of users that have social
10 relationships with the first user and hold electronic certificates, the list being output by the client device;

in response to the electronic certificate acquisition request, selecting, by the server, a first electronic certificate from electronic certificates held by the second user, and generating a second electronic certificate of the same category as the first electronic
15 certificate, wherein a corresponding selection probability value is predetermined for each category of electronic certificate, and the selecting, by the server, a first

electronic certificate from electronic certificates held by the second user comprises: randomly selecting, by the server, the first electronic certificate for the first user from the electronic certificates held by the second user based on the selection probability
20 value of each category of electronic certificate, and wherein the first and the second electronic certificate comprises a character string, a number, and/or a password; and

delivering, by the server, the generated second electronic certificate to the client device, wherein the first user obtains an allocation permission of a virtual object in a predetermined virtual object set when a category quantity of electronic certificates
25 obtained by the client device reaches a predetermined threshold.

8.—The method according to claim 7, wherein ~~a corresponding selection probability value is predetermined for each category of electronic certificate; and~~

~~the selecting a first electronic certificate from electronic certificates held by the second user comprises:~~
30 ~~randomly selecting the first electronic certificate for the first user from the~~

~~electronic certificates held by the second user based on the selection probability value of each category of electronic certificate.~~

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

performing, by the server, weighting calculation on selection probability values of all categories of electronic certificates held by the second user, to obtain a drawing probability value corresponding to the first user; and

before the generating a second electronic certificate of the same category as the first

5 electronic certificate, the method further comprises:

determining, by the server, based on the drawing probability value, whether the first user draws the first electronic certificate; and

if yes, further generating the second electronic certificate of the same category as the first electronic certificate.

10 ~~10.~~

9. The method according to claim 7, wherein the virtual object is a virtual red packet.

~~11.~~

15 10. An electronic-certificate-based interaction ~~apparatus~~client, wherein the apparatus comprises:

an output module; (601), configured to output, in response to an interaction operation initiated by a first user, a list of users that have social relationships with the first user and hold electronic certificates;

20 a first acquisition module; (602), configured to obtain a second user selected by the first user from the user list;

a sending module; (603), configured to send an electronic certificate acquisition request to a server, wherein the electronic certificate acquisition request comprises a user identifier of the second user, so that the server selects a first electronic certificate from electronic certificates held by the second user, and generates a second electronic

25 certificate of the same category as the first electronic certificate, wherein a corresponding selection probability value is predetermined for each category of electronic certificate, and the selecting, by the server, a first electronic certificate from electronic certificates held by the second user comprises: randomly selecting, by the server, the first electronic certificate for the first user from the electronic certificates
30 held by the second user based on the selection probability value of each category of electronic certificate, and wherein the first and the second electronic certificate comprises a character string, a number, and/or a password; and

a second acquisition module; (604), configured to obtain the second electronic certificate delivered by the server, and locally store the second electronic certificate,

wherein the first user obtains an allocation permission of a virtual object in a predetermined virtual object set when a category quantity of obtained electronic certificates reaches a predetermined threshold.

~~12. The apparatus according to claim~~

5 ~~11, wherein the second acquisition module is configured to:~~
 ~~generate a corresponding display picture for the obtained electronic certificate;~~
 ~~and~~
 ~~add the generated display picture to a display position corresponding to the~~
 ~~electronic certificate in an electronic certificate display interface, wherein~~
 10 ~~display pictures generated for different categories of electronic certificates are~~
 ~~different from each other, and display positions corresponding to different categories~~
 ~~of electronic certificates in the electronic certificate display interface are different~~
 ~~from each other.~~

~~13. The apparatus according to claim 11, wherein the electronic certificate~~
 15 ~~display interface further comprises a display position corresponding to a virtual item;~~
 ~~and~~
 ~~the first acquisition module is configured to:~~
 ~~generate a corresponding display picture for an obtained virtual item; and~~
 ~~add the generated display picture to a display position corresponding to the~~
 20 ~~virtual item in an electronic certificate display interface.~~

~~14. The apparatus according to claim 13, wherein the output module is~~
 ~~configured to:~~
 ~~output a detail interface corresponding to the virtual item in response to a~~
 ~~detected trigger operation of the first user for the display picture corresponding to the~~
 25 ~~virtual item, wherein the detail interface comprises an interaction option; and~~
 ~~output an interaction interface corresponding to the interaction option in response~~
 ~~to a trigger operation of the first user for the interaction option, and output the list of~~
 ~~users that have social relationships with the first user and hold electronic certificates~~
 ~~to the first user by using the interaction interface, the list being obtained from the~~
 30 ~~server.~~

~~15. The apparatus according to claim 11, wherein the sending module is~~
 ~~configured to:~~

~~output an electronic certificate selection interface to the first user, wherein the~~
 ~~electronic certificate selection interface comprises several graphical options~~

~~corresponding to the electronic certificates held by the second user; and~~

~~send the electronic certificate acquisition request to the server in response to a trigger operation of the first user for any one of the several graphical options.~~

5 ~~16. The apparatus according to claim 11, wherein the virtual object is a virtual red packet.~~

~~17. An electronic-certificate-based interaction apparatusserver, wherein the apparatus comprises:~~

10 ~~a receiving module; (701), configured to receive an electronic certificate acquisition request sent by a client device, wherein the electronic certificate acquisition request comprises a user identifier of a second user selected by a first user from a list of users that have social relationships with the first user and hold electronic certificates, the list being output by the client device;~~

15 ~~a generation module; (702), configured to: in response to the electronic certificate acquisition request, select a first electronic certificate from electronic certificates held by the second user, and generate a second electronic certificate of the same category as the first electronic certificate, wherein a corresponding selection probability value is predetermined for each category of electronic certificate, and the selecting, by the server, a first electronic certificate from electronic certificates held by the second user comprises: randomly selecting, by the server, the first electronic certificate for the~~
 20 ~~first user from the electronic certificates held by the second user based on the selection probability value of each category of electronic certificate, and wherein the first and the second electronic certificate comprises a character string, a number, and/or a password; and~~

25 ~~a delivery module; (703), configured to deliver the generated second electronic certificate to the client device, wherein the first user obtains an allocation permission of a virtual object in a predetermined virtual object set when a category quantity of electronic certificates obtained by the client device reaches a predetermined threshold.~~

30 ~~18. The apparatus according to claim 17, wherein a corresponding selection probability value is predetermined for each category of electronic certificate; and the generation module is configured to:~~

~~randomly select the first electronic certificate for the first user from the electronic certificates held by the second user based on the selection probability value of each category of electronic certificate.~~

~~19. The apparatus according to claim 18, wherein the apparatus further~~

comprises:

~~a calculation module, configured to perform weighting calculation on selection probability values of all categories of electronic certificates held by the second user, to obtain a drawing probability value corresponding to the first user; and~~

5 ~~the generation module is further configured to:~~

~~before generating the second electronic certificate of the same category as the first electronic certificate, determine, based on the drawing probability value, whether the first user draws the first electronic certificate; and if yes, further generate the second electronic certificate of the same category as the first electronic certificate.~~

10 ~~20. The apparatus according to claim 17, wherein the virtual object is a virtual red packet.~~

~~21. An electronic device, comprising:~~

~~a processor; and~~

~~a memory, configured to store machine executable instructions, wherein~~

15 ~~machine executable instructions corresponding to electronic certificate based interaction logic that are stored in the memory are read and executed, to prompt the processor to:~~

~~output, in response to an interaction operation initiated by a first user, a list of users that have social relationships with the first user and hold electronic certificates;~~

20 ~~obtain a second user selected by the first user from the user list;~~

~~send an electronic certificate acquisition request to a server, wherein the electronic certificate acquisition request comprises a user identifier of the second user, so that the server selects a first electronic certificate from electronic certificates held by the second user, and generates a second electronic certificate of the same category as the first electronic certificate; and~~

25 ~~obtain the second electronic certificate delivered by the server, and locally store the second electronic certificate, wherein the first user obtains an allocation permission of a virtual object in a predetermined virtual object set when a category quantity of obtained electronic certificates reaches a predetermined threshold.~~

30 ~~22. An electronic device, comprising:~~

~~a processor; and~~

~~a memory, configured to store machine executable instructions, wherein~~

~~machine executable instructions corresponding to electronic certificate based interaction logic that are stored in the memory are read and executed, to prompt the~~

processor to:

~~receive an electronic certificate acquisition request sent by a client device,
wherein the electronic certificate acquisition request comprises a user identifier of a
second user selected by a first user from a list of users that have social relationships
with the first user and hold electronic certificates, the list being output by the client
device;~~

~~in response to the electronic certificate acquisition request, select a first
electronic certificate from electronic certificates held by the second user, and generate
a second electronic certificate of the same category as the first electronic certificate;
and~~

~~deliver the generated second electronic certificate to the client device, wherein
the first user obtains an allocation permission of a virtual object in a predetermined
virtual object set when a category quantity of electronic certificates obtained by the
client device reaches a predetermined threshold.~~