

CLAIMS

What is claimed is:

1. A computer-implemented service processing method for processing service participation requests from a user terminal, wherein the user terminal comprises an iOS operating system and an application (APP) associated with a computer device operating as an APP server, the method comprising the steps of:

receiving, by the computer device, a service participation request transmitted by a user terminal for a target service transmitted by the user terminal, wherein the user terminal comprises an iOS operating system;

obtaining target identification data from a system server according to service participation request carries an identifier of the user terminal and an identifier of an application (the APP), wherein a system server corresponding to the iOS operating system maintains a table storing target service carried identification data for each APP in each user terminal, and wherein the target identification data for each APP comprises a first reserved bit having a first value and a second reserved bit having a second value;

transmitting, by the computer device, a request for a passage certificate to the system server through a device check interface;

receiving, by the computer device, the passage certificate from the system server, wherein the passage certificate is used for communicating with the system server to obtain target identification data and is valid for a predetermined duration time;

obtaining, by the computer device, target identification data from the system server corresponding to the iOS operating system based on the passage certificate and the service participation request, wherein the target identification data comprises a value of a first bit and a value of a second bit, wherein the first value of the first reserved bit is used for identifying first identification data used for identifying indicating whether the user terminal has participated in the target service, and the second value of the second reserved bit is used for identifying second identification data used for identifying indicating whether device data of the user terminal is has been modified, and the system server corresponds to the iOS operating system; and

determining, by the computer device according to the target identification data, whether the first value is a first specified value and whether the second value is a second specified value, wherein the first specified value indicates that the user terminal has participated in the target service, and the second specified value indicates that the device data of the user terminal has

been modified;

in response to determining that the first value is the first specified value and/or the second value is the second specified value, denying, by the computer device, the service participation request to prohibit the user terminal to participate in the target service;

in response to determining that the first value is not the first specified value and the second value is not the second specified value, granting, by computer device, the service participation request to allow the user terminal to participate in the target service, and

in response to receiving the service participation request, writing, by the computer device, the first specified value to the first reserved bit to replace the first value.

2. The method ~~according to~~ claim 1, wherein the obtaining by the computer device, the target identification data from a system server according to the service participation request comprises:

~~obtaining a passage certificate of the system server, wherein the passage certificate is used for exchanging with the system server for data, and the passage certificate is valid in a set duration; and~~

~~obtaining the target identification data from the system server based on the passage certificate and the service participation request.~~

~~3. The method according to claim 2, wherein~~

~~the obtaining the target identification data of the APP of the user terminal from the system server based on the passage certificate and the service participation request comprises:~~

~~transmitting, by the computer device, a data obtaining request to the system server, wherein the data obtaining request carries the passage certificate, the identifier of the user terminal, and the identifier of the APP; and~~

~~receiving, by the computer device from the system server, the target identification data that corresponds to the identifier of the user terminal and the identifier of the APP, and returned by the system server.~~

~~43. The method according to claim 1, wherein~~

~~the determining, according to the target identification data, whether to allow the user terminal to participate in the target service comprises:~~

~~determining whether the first identification data is a first specified value, and determining whether the second identification data is a second specified value, wherein the first specified value indicates that the user terminal has participated in the target service, and the second specified value indicates that the device data of the user terminal is modified; and~~

~~determining, if a determining result indicates that the first identification data is the first~~

~~specified value and/or the second identification data is the second specified value, not to allow the user terminal to participate in the target service; otherwise, determining to allow the user terminal to participate in the target service.~~

~~5. The method according to claim 4, further comprising:~~

~~setting a value of the first identification data to the first specified value when it is determined that the user terminal has participated in the target service; and setting a value of the second identification data by the computer device, the second value of the second reserved bit to the second specified value when it is determined that the device data of the user terminal is modified.~~

~~64. The method according to claim 1, wherein if it is determined that the first identification data is a first specified value, and the first specified value indicates that the user terminal has participated in the target service,~~

~~the method further comprises~~comprising:

~~detecting whether by the computer device data of the user terminal changes, and determining, according to a detection result, whether the device data of the user terminal changes, and~~

~~in response to detecting that the device data of the user terminal changes, determining, by the computer device, that the device data of the user terminal has been is modified.~~

~~75. The method according to claim 21, wherein the first reserved bit and obtaining a passage certificate of the second reserved bit are given a first initial value and a second initial value, respectively, when the iOS operating system is installed on the user terminal system server comprises:~~

~~transmitting an obtaining request for the passage certificate to the system server through a device check interface; and~~

~~receiving the passage certificate that is returned by the system server through the device check interface.~~

~~86. A service processing apparatus for processing service participation requests from a user terminal that, comprises: an iOS operating system and an application (APP) comprising:~~

~~one or more processors; and~~

~~a memory communicatively connected to the one or more processors, wherein the memory stores instructions executable by the one or more processors to cause the one or more processors to perform operations including:~~

~~a receiving module, configured to receive a service participation request transmitted by a user terminal for a target service transmitted by the user terminal, wherein the user terminal~~

~~comprises an iOS operating system;~~

~~an obtaining module, configured to obtain target identification data from a system server according to service participation request carries an identifier of the user terminal and an identifier of an application (the APP) corresponding to the target service carried in the service participation request, wherein a system server corresponding to the iOS operating system maintains a table storing target identification data for each APP in each user terminal, and wherein the target identification data for each APP comprises a first reserved bit having a first value of a first bit and a second reserved bit having a second value of a second bit;~~

~~transmitting a request for a passage certificate to the system server through a device check interface;~~

~~receiving the passage certificate from the system server, wherein the value of the first bit passage certificate is used for communicating with the system server to obtain target identifying first identification data and is valid for a predetermined duration time;~~

~~obtaining target identification data from the system server corresponding to the iOS operating system based on the passage certificate and the service participation request, wherein the target identification data comprises the first value of the first reserved bit indicating used for identifying whether the user terminal has participated in the target service, and the second value of the second reserved bit is used for identifying second identification data used for identifying indicating whether device data of the user terminal is has been modified, and the system server corresponds to the iOS operating system; and;~~

~~a first determining module, configured to determine, according to the target identification data, whether the first value is a first specified value and whether the second value identification data is a value, wherein the first specified value indicates that the user terminal has participated in the target service, and the second specified value indicates that the device data of the user terminal has been modified;~~

~~in response to determining that the first value is the first specified value and/or the second value is the second specified value, denying the service participation request to prohibit the user terminal to participate in the target service;~~

~~in response to determining that the first value is not the first specified value and the second value is not the second specified value, granting the service participation request to allow the user terminal to participate in the target service; and~~

~~in response to receiving the service participation request, writing the first specified value to the first reserved bit to replace the first value.~~

97. The apparatus according to claim 86, wherein the obtaining ~~module comprises:~~

~~a first obtaining unit, configured to obtain a passage certificate of the system server, wherein the passage certificate is used for exchanging with the system server for data, and the passage certificate is valid in a set duration; and~~

~~a second obtaining unit, configured to obtain the target identification data of the APP of the user terminal from the system server based on the passage certificate and the service participation request-~~

~~10. The apparatus according to claim 8, wherein-~~

~~the first determining module comprises:~~

~~transmitting a data obtaining request ~~judgment unit, configured to~~ the system server, wherein the data obtaining request carries the passage certificate, the identifier of the user terminal, and the identifier of the APP; and~~

~~receiving, from the system server, the target identification data corresponding to the identifier of the user terminal and the identifier of the APP, ~~determine whether the first identification data is a first specified value, and determine whether the second identification data is a second specified value, wherein the first specified value indicates that the user terminal has participated in the target service, and the second specified value indicates that the device data of the user terminal is modified, and~~~~

~~a determining unit, configured to determine, if a determining result indicates that the first identification data is the first specified value and/or the second identification data is the second specified value, not to allow the user terminal to participate in the target service; otherwise, determine to allow the user terminal to participate in the target service.~~

~~8. The apparatus of claim 6, wherein the operations further comprise:~~

~~setting the second value of the second reserved bit to the second specified value when it is determined that the device data of the user terminal is modified.~~

~~9. The apparatus of claim 6, wherein the operations further comprise:~~

~~detecting whether the device data of the user terminal changes, and~~

~~in response to detecting that the device data of the user terminal changes, determining that the device data of the user terminal has been modified.~~

~~10. The apparatus of claim 6, wherein the first reserved bit and the second reserved bit are given a first initial value and a second initial value, respectively, when the iOS operating system is installed on the user terminal.~~

~~11. One or more non-transitory computer-readable storage media storing instructions for processing service participation requests from a user terminal that comprises an iOS operating system and an application (APP), wherein the instructions, when executed by one or more~~

processors, cause the one or more processors to perform operations including:

receiving a service participation request for a target service transmitted by the user terminal, the service participation request carries an identifier of the user terminal and an identifier of the APP, wherein a system server corresponding to the iOS operating system maintains a table storing target identification data for each APP in each user terminal, and wherein the target identification data for each APP comprises a first reserved bit having a first value and a second reserved bit having a second value;

transmitting a request for a passage certificate to the system server through a device check interface;

receiving the passage certificate from the system server, wherein the passage certificate is used for communicating with the system server to obtain target identification data and is valid for a predetermined duration time;

obtaining target identification data from the system server corresponding to the iOS operating system based on the passage certificate and the service participation request, wherein the target identification data comprises the first value of the first reserved bit indicating whether the user terminal has participated in the target service, and the second value of the second reserved bit indicating whether device data of the user terminal has been modified;

determining whether the first value is a first specified value and whether the second value is a second specified value, wherein the first specified value indicates that the user terminal has participated in the target service, and the second specified value indicates that the device data of the user terminal has been modified;

in response to determining that the first value is the first specified value and/or the second value is the second specified value, denying the service participation request to prohibit the user terminal to participate in the target service;

in response to determining that the first value is not the first specified value and the second value is not the second specified value, granting the service participation request to allow the user terminal to participate in the target service; and

in response to receiving the service participation request, writing the first specified value to the first reserved bit to replace the first value.

12. The one or more non-transitory computer-readable storage media of claim 11, wherein the obtaining the target identification data of the APP of the user terminal from the system server based on the passage certificate and the service participation request comprises:

transmitting a data obtaining request to the system server, wherein the data obtaining request carries the passage certificate, the identifier of the user terminal, and the identifier of

the APP; and

receiving, from the system server, the target identification data corresponding to the identifier of the user terminal and the identifier of the APP.

13. The one or more non-transitory computer-readable storage media of claim 11, wherein the operations further comprise:

setting the second value of the second reserved bit to the second specified value when it is determined that the device data of the user terminal is modified.

14. The one or more non-transitory computer-readable storage media of claim 11, wherein the operations further comprise:

detecting whether the device data of the user terminal changes, and

in response to detecting that the device data of the user terminal changes, determining that the device data of the user terminal has been modified.

15. The one or more non-transitory computer-readable storage media of claim 11, wherein the first reserved bit and the second reserved bit are given a first initial value and a second initial value, respectively, when the iOS operating system is installed on the user terminal.

~~11. The apparatus according to claim 10, further comprising:~~

~~a setting module, configured to set a value of the first identification data to the first specified value when it is determined that the user terminal has participated in the target service; and set a value of the second identification data to the second specified value when it is determined that the device data of the user terminal is modified.~~

~~12. The apparatus according to claim 8, wherein if it is determined that the first identification data is a first specified value, and the first specified value indicates that the user terminal has participated in the target service,~~

~~the apparatus further comprises:~~

~~a detection module, configured to detect whether the device data of the user terminal changes; and~~

~~a second determining module, configured to determine, according to a detection result, whether the device data of the user terminal is modified.~~

~~13. A service processing device, comprising:~~

~~a processor; and~~

~~a memory arranged to store computer executable instructions, wherein the executable instructions, when executed, cause the processor to:~~

~~receive a service participation request transmitted by a user terminal for a target service; wherein the user terminal comprises an iOS operating system;~~

~~obtain target identification data from a system server according to an identifier of the user terminal and an identifier of an application (APP) corresponding to the target service carried in the service participation request, wherein the target identification data comprises a value of a first bit and a value of a second bit, wherein the value of the first bit is used for identifying first identification data used for identifying whether the user terminal has participated in the target service, the value of the second bit is used for identifying second identification data used for identifying whether device data of the user terminal is modified, and the system server corresponds to the operating system of the user terminal; and~~

~~determine, according to the target identification data, whether to allow the user terminal to participate in the target service.~~

~~14. A storage medium for storing computer-executable instructions, wherein when the executable instructions are executed, the following procedure is implemented:~~

~~receiving a service participation request transmitted by a user terminal for a target service, wherein the user terminal comprises an iOS operating system;~~

~~obtaining target identification data from a system server according to an identifier of the user terminal and an identifier of an application (APP) corresponding to the target service carried in the service participation request, wherein the target identification data comprises a value of a first bit and a value of a second bit, wherein the value of the first bit is used for identifying first identification data used for identifying whether the user terminal has participated in the target service, the value of the second bit is used for identifying second identification data used for identifying whether device data of the user terminal is modified, and the system server corresponds to the operating system of the user terminal; and~~

~~determining, according to the target identification data, whether to allow the user terminal to participate in the target service.~~