

METHOD AND DEVICE FOR PROCESSING GROUP MESSAGE

TECHNICAL FIELD

[0001] The present application relates to the field of Internet communications
5 technologies, and specifically, to a method and device for processing a group
message.

BACKGROUND

[0002] With the development of Internet technologies, Internet-based instant
messaging (IM) application are widely used. Currently, a chat group can be set up in
10 an IM application. The chat group can include a plurality of members. Each member
can start group chat by establishing a chat group. Each member can generate group
chat messages during the group chat, and the IM application displays the group chat
messages generated during the group chat in a chat window.

[0003] Currently, the group chat messages generated by each member are
15 accompanied with posting times. The IM application displays all the group chat
messages in a chatting interface based on the posting times of the group chat
messages generated during the group chat. It is worthwhile to note that a display
window of the chatting interface has a fixed size. When a relatively large quantity of
group chat messages are generated during the group chat, the IM application moves
20 group chat messages posted earliest in the display window upwards and moves the
group chat messages out of the display window, and sets a scroll bar in the display
window. If a user wants to view group chat messages posted earlier, the user can drag
the scroll bar to move the group chat messages that the user wants to view to the
display window. When all the group members use the chat group to chat, if a member
25 posts a key message while another member paid no attention to the chatting interface,
the key message may be moved out of the display window due to newly generated
group chat messages. Consequently, the member paid no attention may miss the key
message.

SUMMARY

[0004] In view of this, the present application provides a method and device for processing a group message, to reduce an existing high probability of missing a key message in group chat messages.

5 [0005] To resolve the previous technical problem, a first aspect of the present application provides a method for processing a group message, including: detecting an operation for a first contact in a group message display interface; displaying all messages of the first contact in the group message display interface according to a time sequence that the messages are posted; and hiding messages of other contacts.

10 [0006] Optionally, the method further includes the following: detecting that a profile picture of the first contact in the group message display interface is dragged by a predetermined distance in a first direction; displaying all the messages of the first contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the first contact; and displaying a
15 quantity of messages posted by other contacts at a display location in the group message display interface according to a time sequence that the messages are posted.

[0007] Optionally, the method further includes the following: changing a color of the group message display interface, and/or displaying, in the group message display interface, a prompt of selecting the messages of the first contact.

20 [0008] Optionally, the method further includes the following: displaying a first icon and a second icon at a predetermined location in the group message display interface, where the first icon represents an icon indicating all contacts, and the second icon represents a profile picture icon indicating the selected first contact.

[0009] Optionally, the method further includes: displaying messages of all the
25 contacts according to a time sequence that the messages are posted when detecting, at the predetermined location in the group message display interface, that the first icon is tapped; and/or displaying all messages corresponding to the message quantity according to a time sequence that the messages are posted when detecting, in the group message display interface, that the message quantity is tapped.

30 [0010] Optionally, after the display of all messages of the first contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the first contact, the method further includes: detecting that a profile picture of a second contact in the group message display

interface is dragged by a predetermined distance in the first direction; additionally displaying all messages of the second contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the second contact, where all the messages of the first contact and all the messages
5 of the second contact are displayed according to a time sequence that the messages are posted; additionally displaying a third icon at a predetermined location in the group message display interface, where the third icon represents a profile picture icon indicating the selected second contact; and subtracting, in the group message display interface, a message quantity of the second contact from the message quantity of the
10 other contacts that is displayed at the corresponding display location according to a time sequence that the messages are posted.

[0011] Optionally, the method further includes: detecting that a second icon or the third icon at the predetermined location in the group message display interface is dragged by a predetermined distance in a second direction; skipping displaying, in the
15 group message display interface, messages of a contact corresponding to the second icon or the third icon; and increasing, in the group message display interface by a message quantity of the contact corresponding to the second icon or the third icon, the message quantity of the other contacts that is displayed at the display location according to a time sequence that the messages are posted.

[0012] Optionally, the method further includes: when detecting a new message, displaying the new message in the group message display interface if determined that the new message is posted by a selected contact or posted by the user; or if determined that the new message is posted by another contact, skipping displaying the new message in the group message display interface, and displaying the message
20 quantity at the corresponding display location according to a time sequence that the messages are posted.

[0013] An implementation of the present application further provides a device for processing a group message, including: a detection module, configured to detect an operation for a first contact in a group message display interface; a first display
30 module, configured to display all messages of the first contact in the group message display interface according to a time sequence that the messages are posted; and a hiding module, configured to hide messages of other contacts.

[0014] Optionally, the detection module is configured to detect that a profile picture of the first contact in the group message display interface is dragged by a

predetermined distance in a first direction.

[0015] The first display module is configured to display all the messages of the first contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the first contact.

5 **[0016]** Optionally, the device further includes: a second display module, configured to display a message quantity of the other contacts at a corresponding display location in the group message display interface according to a time sequence that the messages are posted.

[0017] Optionally, the device further includes: a selection notification module,
10 configured to change a color of the group message display interface, and/or display, in the group message display interface, a notification of selecting the messages of the first contact, after the detection module detects that the profile picture of the first contact in the group message display interface is dragged by the predetermined distance in the first direction.

15 **[0018]** Optionally, the device further includes a third display module, configured to display a first icon and a second icon at a predetermined location in the group message display interface, where the first icon represents an icon indicating all contacts, and the second icon represents a profile picture icon indicating the selected first contact.

20 **[0019]** Optionally, the detection module is further configured to detect, at the predetermined location in the group message display interface, that the first icon is tapped; and the first display module is further configured to display messages of all the contacts according to a time sequence that the messages are posted; and/or the detection module is further configured to detect, in the group message display
25 interface, that the message quantity is tapped; and the first display module is further configured to display all messages corresponding to the message quantity according to a time sequence that the messages are posted.

[0020] Optionally, the detection module is further configured to detect that a profile picture of a second contact in the group message display interface is dragged
30 by a predetermined distance in the first direction, after the first display module displays all the messages of the first contact in the group message display interface according to a time sequence that the messages are posted.

[0021] The first display module is further configured to additionally display all messages of the second contact in the group message display interface according to a

time sequence that the messages are posted based on the profile picture of the second contact, where all the messages of the first contact and all the messages of the second contact are displayed according to a time sequence that the messages are posted.

[0022] A third display module is configured to additionally display a third icon at a predetermined location in the group message display interface, where the third icon represents a profile picture icon indicating the selected second contact.

[0023] The second display module is further configured to subtract, in the group message display interface, a message quantity of the second contact from the message quantity of the other contacts that is displayed at the corresponding display location according to a time sequence that the messages are posted.

[0024] Optionally, the detection module is further configured to detect that a second icon or the third icon at the predetermined location in the group message display interface is dragged by a predetermined distance in a second direction.

[0025] The first display module is further configured to skip displaying, in the group message display interface, messages of a contact corresponding to the second icon or the third icon.

[0026] The second display module is further configured to increase, in the group message display interface by a message quantity of the contact corresponding to the second icon or the third icon, the message quantity of the other contacts that is displayed at the corresponding display location according to a time sequence that the messages are posted.

[0027] Optionally, the first display module is further configured to display a new message in the group message display interface if the detection module detects the new message and determines that the new message is a new message posted by a selected contact or a new message posted by the user.

[0028] The second display module is further configured to skip displaying a new message in the group message display interface, and display the message quantity at the corresponding display location according to a time sequence that the messages are posted, if the detection module detects the new message and determines that the new message is a new message posted by another contact.

[0029] In the implementations of the present disclosure, after the selected contact is operated in the group message display interface, message content of the selected contact can be displayed in the group message display interface, and message content of the other contacts' message is hid or the message quantity is automatically

displayed at the corresponding display location according to a time sequence that the messages are posted of the other contacts. As such, a user can quickly and conveniently select, from the group message display interface, messages posted by a contact who the user needs to know, and does not miss the messages posted by the contact who the user needs to know. Therefore, a probability of missing messages is reduced.

[0030] Certainly, a product implementing the present application may achieve some but not all the previous technical effects.

BRIEF DESCRIPTION OF DRAWINGS

10 [0031] The accompanying drawings described here are intended to provide a further understanding of the present application, and constitute a part of the present application. Example implementations of the present application and descriptions of the implementations are intended to describe the present application, and constitute no limitation on the present application. In the accompanying drawings:

15 [0032] FIG. 1 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application;

[0033] FIG. 2 is a schematic diagram illustrating a group message display interface;

[0034] FIG. 3 is a schematic diagram illustrating a profile picture dragging direction, according to an implementation of the present disclosure;

20 [0035] FIG. 4 is a schematic diagram illustrating a display interface of a selected message of a contact, according to an implementation of the present disclosure;

[0036] FIG. 5 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application;

25 [0037] FIG. 6 is a schematic diagram illustrating a message restoration method, according to an implementation of the present disclosure;

[0038] FIG. 7 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application;

30 [0039] FIG. 8 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application;

[0040] FIG. 9 is a schematic diagram illustrating a profile picture dragging direction, according to an implementation of the present disclosure;

[0041] FIG. 10 is a schematic diagram illustrating a display interface of a selected message of a contact, according to an implementation of the present disclosure;

[0042] FIG. 11 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application;

5 [0043] FIG. 12 is a schematic diagram illustrating a profile picture dragging direction, according to an implementation of the present disclosure;

[0044] FIG. 13 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application; and

[0045] FIG. 14 is a schematic structural diagram illustrating a device for
10 processing a group message, according to an implementation of the present application.

DESCRIPTION OF IMPLEMENTATIONS

[0046] The implementations of the present application are described below in detail with reference to accompanying drawings and implementations to provide a full
15 understanding of and implement an implementation process of how to use technical means in the present application to resolve technical problems and achieve technical effects.

[0047] In a typical configuration, a computing device includes one or more processors (CPU), an input/output interface, a network interface, and a memory.

20 [0048] The memory can include a non-persistent memory, a random access memory (RAM), a nonvolatile memory, and/or another form that are in a computer readable medium, for example, a read-only memory (ROM) or a flash memory (flash RAM). The memory is an example of the computer readable medium.

[0049] The computer readable medium includes persistent, non-persistent,
25 movable, and unmovable media that can store information by using any method or technology. The information can be a computer readable instruction, a data structure, a program module, or other data. Examples of a computer storage medium include but are not limited to a phase-change random access memory (PRAM), a static random access memory (SRAM), a dynamic random access memory (DRAM), another type
30 of random access memory (RAM), a read-only memory (ROM), an electrically erasable programmable read-only memory (EEPROM), a flash memory or another memory technology, a compact disc read-only memory (CD-ROM), a digital versatile

disc (DVD) or other optical storages, a cassette magnetic tape, a magnetic tape/magnetic disk storage or other magnetic storage devices or any other non-transmission media. The computer storage medium can be used to store information accessible by the computing device. Based on the definition in the present specification, the computer readable medium does not include transitory computer readable media (transitory media) such as a modulated data signal and carrier.

[0050] For example, some words are used in the present specification and claims to represent specific components. A person skilled in the art should understand that a hardware manufacturer can name the same component by using different nouns. In the present specification and claims, components are not distinguished between each other by using different names. Instead, the components are distinguished between each other by using different functions. For example, the word "include" mentioned throughout the present specification and claims is an open term and should be interpreted as "including but not limited to". "Substantially" means that within an acceptable error range, a person skilled in the art can resolve the technical problems within a certain error range to achieve the technical effects. In addition, the word "coupling" here includes any direct/indirect electrical coupling means. Therefore, if a first device is described as being coupled to a second device in the present specification, it means that the first device can be directly electrically coupled to the second device, or indirectly electrically coupled to the second device by using another device or in a coupling means. The subsequent descriptions in the present specification are preferred implementations of the present application. However, the descriptions are intended to describe general principles of the present application, and are not intended to limit the scope of the present application. The protection scope of the present application is subject to the appended claims.

[0051] It is worthwhile to further note that, the terms "include", "comprise", or their any other variants are intended to cover a non-exclusive inclusion, so a product or a system that includes a list of elements not only includes those elements but also includes other elements which are not expressly listed, or further includes elements inherent to such product or system. Without more constraints, an element preceded by "includes a ..." does not preclude the existence of additional identical elements in the product or system that includes the element.

[0052] To reduce an existing high probability of missing a key message in group chat messages, an inventive idea of the present disclosure is as follows: When an

operation for a first contact is detected in a group message display interface, all messages of the first contact are displayed in the group message display interface according to a time sequence that the messages are posted, and messages of other contacts are hid. As such, a user can quickly and conveniently select, from the group message display interface, messages posted by a contact who the user needs to know, and does not miss the messages posted by the contact who the user needs to know. Therefore, the probability of missing messages is reduced. The present disclosure is described below in detail with reference to specific implementations.

[0053] FIG. 1 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application. As shown in FIG. 1, the method includes the steps below.

[0054] 101. Detect that a profile picture of a first contact in a group message display interface is dragged by a predetermined distance in a first direction.

[0055] FIG. 2 is a schematic diagram illustrating a group message display interface. FIG. 2 shows a high school classmate group. When contacts in the group post messages, the messages are displayed in the group message display interface according to a time sequence that the messages are posted.

[0056] The first direction in this implementation of the present disclosure can be a horizontal rightward direction along a touchscreen. Certainly, the first direction can be a vertical direction or another direction along the touchscreen. The first direction is not limited in the present disclosure. FIG. 3 is a schematic diagram illustrating a profile picture dragging direction, according to an implementation of the present disclosure. As shown in FIG. 3, when a user wants to select a message of contact A (the first contact) in the group, the user can tap (lock or select) the profile picture of contact A (referred to as the profile picture of A for short) in the group message display interface by using a finger or another touch tool, and drag the profile picture of A by a certain distance (the predetermined distance) in the horizontal rightward direction along the touchscreen. Optionally, the color of the group message display interface in this implementation of the present disclosure can be changed. As shown in FIG. 3, the group message display interface turns gray after the profile picture of A is dragged by a certain distance (the predetermined distance) in the horizontal rightward direction along the touchscreen. Optionally, a prompt of selecting a message of a selected contact is displayed in the group message display interface. As shown in FIG. 3, a prompt of "selecting all messages of contact A" is displayed.

[0057] 102. Display all messages of the first contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the first contact.

[0058] FIG. 4 is a schematic diagram illustrating a display interface of a selected message of a contact according to an implementation of the present disclosure. As shown in FIG. 4, when the user releases the finger (that is, the user releases the profile picture of contact A), all the messages posted by contact A are displayed in the group message display interface, and are specifically displayed according to a time sequence that the messages are posted of contact A.

[0059] Optionally, as shown in FIG. 4, a first icon and a second icon are displayed at a predetermined location in the group message display interface (such as a top location in the group message display interface shown in FIG. 4). The first icon represents an icon indicating all contacts, such as the icon "All" shown in FIG. 4. The second icon represents a profile picture icon indicating the selected first contact, such as the icon "Profile picture of contact A" shown in FIG. 4. In the present disclosure, to represent the selected contact, the second icon can be highlighted or displayed in another color.

[0060] The predetermined location is not limited to the top location in the group message display interface.

[0061] 103. Display a message quantity of other contacts at a corresponding display location in the group message display interface according to a time sequence that the messages are posted.

[0062] After the messages of contact A are selected and are displayed in the group message display interface, the quantity of messages posted by the other contacts is displayed at the corresponding display location according to a time sequence that the messages are posted. As shown in FIG. 4, after contact A posts the first message, other contacts also post a message. In this case, message content of the other contacts is not displayed under a location where the first message posted by contact A is displayed. Instead, only the quantity of messages posted by the other contacts is displayed.

[0063] Certainly, in this implementation of the present disclosure, content of a message posted by the user is displayed at a corresponding display location according to a time sequence that the messages are posted.

[0064] In this implementation of the present disclosure, after the profile picture of the selected contact is dragged by a predetermined distance in a predetermined

direction in the group message display interface, message content of the selected contact can be displayed in the group message display interface, and the message content of the other contacts are not displayed. Instead, the message quantity is automatically displayed at the corresponding display location according to a time sequence that the messages are posted. As such, the user can quickly and conveniently select, from the group message display interface, messages posted by a contact who the user needs to know, and does not miss the messages posted by the contact who the user needs to know. Therefore, a probability of missing messages is reduced.

[0065] FIG. 5 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application. As shown in FIG. 5, the method includes the steps below.

[0066] 201. Detect, at a predetermined location in the group message display interface, that a first icon is tapped.

[0067] Optionally, when the first icon is tapped, the first icon can be highlighted or changed in color. FIG. 6 is a schematic diagram illustrating a message restoration method, according to an implementation of the present disclosure. As shown in FIG. 6, when the user taps the icon "All" (the first icon) in the group message display interface, the icon "All" turns from gray to green.

[0068] 202. Display messages of all contacts in the group message display interface according to a time sequence that the messages are posted.

[0069] As shown in FIG. 6, when the user taps the icon "All" (the first icon) in the group message display interface, the messages of all the contacts are displayed in the group message display interface according to a time sequence that the messages are posted. In this case, the profile picture of the selected contact A (the second icon) turns from highlighted blue to gray.

[0070] FIG. 7 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application. As shown in FIG. 7, the method includes the steps below.

[0071] 301. Detect, in the group message display interface, that the message quantity is tapped.

[0072] 302. Display all messages corresponding to the message quantity in the group message display interface according to a time sequence that the messages are posted.

[0073] When the user taps "two messages" and "15 messages" shown in FIG. 4,

message content of the "two messages" and the "15 messages" can be shown in FIG. 6, and is displayed in the group message display interface according to a time sequence that the messages are posted.

[0074] In this implementation of the present disclosure, after the first icon (such as the icon "All") at the predetermined location in the group message display interface is tapped, the messages posted by all the contacts can be displayed in the group message display interface according to a time sequence that the messages are posted. Or, after the message quantity in the group message display interface is tapped, corresponding message content can be displayed at the corresponding display location in the group message display interface according to a time sequence that the messages are posted. As such, the user can quickly and conveniently restore the message posted by the other contacts in the group message display interface.

[0075] FIG. 8 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application. As shown in FIG. 8, after the messages of the first contact are selected, if the user still wants to select messages of a second contact, the method includes the steps below.

[0076] 401. Detect that a profile picture of a second contact in the group message display interface is dragged by a predetermined distance in the first direction.

[0077] As shown in FIG. 9, after the user has selected the messages of contact A, if the user still wants to select messages of contact B, the user drags a profile picture of contact B by a predetermined distance in the horizontal rightward direction along the touchscreen.

[0078] 402. Additionally display all messages of the second contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the second contact.

[0079] All the messages of the first contact and all the messages of the second contact are displayed according to a time sequence that the messages are posted. As shown in FIG. 10, the messages posted by contact A and messages posted by contact B are displayed in the group message display interface according to a time sequence that the messages are posted.

[0080] 403. Additionally display a third icon at a predetermined location in the group message display interface.

[0081] The third icon represents a profile picture icon indicating the selected second contact.

[0082] As shown in FIG. 10, the profile picture of contact B (the second contact) is added to the top location (the predetermined location) in the group message display interface, and the profile picture of contact B is highlighted or displayed in color (orange).

5 **[0083]** 404. Subtract, in the group message display interface, a message quantity of the second contact from the message quantity of other contacts that is displayed at the corresponding display location according to a time sequence that the messages are posted.

[0084] As shown in FIG. 4, one of the two messages originally under the message of contact A is posted by contact B. After the message of contact B is selected, only one message of the other contacts is left under the message posted by contact B. As shown in FIG. 10, in the group message display interface, the quantity of messages posted by contact B (the second contact) is subtracted from the message quantity of the other contacts that is displayed at the corresponding display location according to a time sequence that the messages are posted.

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[0085] FIG. 11 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application. As shown in FIG. 11, the method includes the steps below.

[0086] 501. Detect that the second icon or the third icon at the predetermined location in the group message display interface is dragged by a predetermined distance in a second direction.

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[0087] 502. Skip displaying, in the group message display interface, messages of a contact corresponding to the second icon or the third icon.

[0088] 503. Increase, in the group message display interface by a message quantity of the contact corresponding to the second icon or the third icon, the message quantity of the other contacts that is displayed at the corresponding display location according to a time sequence that the messages are posted.

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[0089] As shown in FIG. 12, when the user wants to delete the message of the selected contact B from the group message display interface, the user only needs to select the profile picture of contact B (the third icon) at the top location (the predetermined location) in the group message display interface, and drag the profile picture of contact B by a certain distance in a horizontal downward direction (the second direction) along the touchscreen. As such, the message posted by contact B is not displayed in the group message display interface. As shown in FIG. 4, in the group

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message display interface, the message quantity of other contacts that is displayed at the corresponding display location according to a time sequence that the messages are posted is increased by the quantity of messages posted by contact B.

5 **[0090]** In this implementation of the present disclosure, after the profile picture of the selected contact is dragged by a certain distance in a predetermined direction, the message posted by the selected contact in the group message display interface can be deleted, and the message quantity of the other contacts that is displayed at the corresponding display location according to a time sequence that the messages are posted is increased by the quantity of messages posted by the selected contact. As
10 such, the user can quickly and conveniently delete the message posted by the selected contact in the group message display interface. In existing technologies, if the user wants to detect messages posted by a certain contact from group messages, the user needs to select, one by one, messages posted by the contact in the group message display interface to delete the messages, causing cumbersome operations. In the
15 solution in this implementation of the present disclosure, a message deletion operation is simplified, and user experience is improved.

[0091] FIG. 13 is a schematic flowchart illustrating a method for processing a group message, according to an implementation of the present application. As shown in FIG. 13, the method includes the steps below.

20 **[0092]** 601. Detect a new message.

[0093] 602. Determine whether a contact who posts the new message is selected; and if yes, perform step 603; or otherwise, perform step 604.

[0094] Usually, when a contact posts a message in a group, each message includes user information of the contact. The contact who posts the new message can be
25 determined by using the user information of the contact included in the new message. Based on the method in the implementation shown in FIG. 1, if the user selects a message of one or more contacts in the group, the user matches the contact who posts the new message and the selected contact. If matching is successful, it indicates that the contact who posts the new message is selected. If matching is unsuccessful, it
30 indicates that the contact who posts the new message is not selected.

[0095] 603. Display the new message in the group message display interface.

[0096] 604. Determine whether the new message is a new message posted by the user; and if yes, perform step 603; or otherwise, perform step 605.

[0097] If the new message is the new message posted by the user, the new

message is displayed in the group message display interface.

[0098] 605. Display the message quantity at the corresponding display location according to a time sequence that the messages are posted.

[0099] If the new message is a new message posted by another contact (neither
5 the user nor the selected contact), the new message is not displayed in the group message display interface. Instead, the message quantity is displayed at the corresponding display location according to a time sequence that the messages are posted.

[0100] In this implementation of the present disclosure, after the user sets a
10 selected contact, when a new message is detected, whether the new message is a message posted by the selected contact or the user is first determined. If yes, the new message is directly displayed in the group message display interface. Otherwise, content of the new message is not displayed. Instead, the message quantity is displayed at the corresponding display location according to a time sequence that the
15 messages are posted. Therefore, the user can conveniently and quickly view a message of the selected contact (a contact who the user needs to know), and user experience is improved.

[0101] FIG. 14 is a schematic structural diagram illustrating a device for processing a group message, according to an implementation of the present
20 application. As shown in FIG. 14, the device includes a detection module 71, configured to detect an operation for a first contact in a group message display interface; a first display module 72, configured to display all messages of the first contact in the group message display interface according to a time sequence that the messages are posted; and a hiding module 76, configured to hide messages of other
25 contacts.

[0102] Optionally, the detection module 71 is further configured to detect that a profile picture of the first contact in the group message display interface is dragged by a predetermined distance in a first direction.

[0103] The first display module 72 is further configured to display all the
30 messages of the first contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the first contact.

[0104] Optionally, the device in the present disclosure further includes a second display module 73, configured to display a message quantity of the other contacts at a

corresponding display location in the group message display interface according to a time sequence that the messages are posted.

[0105] Optionally, the device further includes a selection prompt module 74, configured to change a color of the group message display interface, and/or display, in the group message display interface, a prompt of selecting the messages of the first contact, after the detection module 71 detects that the profile picture of the first contact in the group message display interface is dragged by the predetermined distance in the first direction.

[0106] Optionally, the device further includes a third display module 75, configured to display a first icon and a second icon at a predetermined location in the group message display interface, where the first icon represents an icon indicating all contacts, and the second icon represents a profile picture icon indicating the selected first contact.

[0107] Optionally, the detection module 71 is further configured to detect, at the predetermined location in the group message display interface, that the first icon is tapped; and the first display module 72 is further configured to display messages of all the contacts according to a time sequence that the messages are posted; and/or the detection module 71 is further configured to detect, in the group message display interface, that the message quantity is tapped; and the first display module 72 is further configured to display all messages corresponding to the message quantity according to a time sequence that the messages are posted.

[0108] Optionally, the detection module 71 is further configured to detect that a profile picture of a second contact in the group message display interface is dragged by a predetermined distance in the first direction, after the first display module 72 displays all the messages of the first contact in the group message display interface according to a time sequence that the messages are posted.

[0109] The first display module 72 is further configured to additionally display all messages of the second contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the second contact, where all the messages of the first contact and all the messages of the second contact are displayed according to a time sequence that the messages are posted.

[0110] The third display module 75 is further configured to additionally display a third icon at a predetermined location in the group message display interface, where the third icon represents a profile picture icon indicating the selected second contact.

[0111] The second display module 73 is further configured to subtract, in the group message display interface, a message quantity of the second contact from the message quantity of the other contacts that is displayed at the corresponding display location according to a time sequence that the messages are posted.

5 [0112] Optionally, the detection module 71 is further configured to detect that a second icon or the third icon at the predetermined location in the group message display interface is dragged by a predetermined distance in a second direction.

[0113] The first display module 72 is further configured to skip displaying, in the group message display interface, a message of a contact corresponding to the second
10 icon or the third icon.

[0114] The second display module 73 is further configured to increase, in the group message display interface by a message quantity of the contact corresponding to the second icon or the third icon, the message quantity of the other contacts that is displayed at the corresponding display location according to a time sequence that the
15 messages are posted.

[0115] Optionally, the first display module 72 is further configured to display a new message in the group message display interface, if the detection module detects the new message and determines that the new message is a new message posted by a selected contact or a new message posted by the user.

20 [0116] The second display module 73 is further configured to skip displaying a new message in the group message display interface, and display the message quantity at the corresponding display location according to a time sequence that the messages are posted, if the detection module detects a new message and determines that the new message is a new message posted by the other contacts.

25 [0117] The device shown in FIG. 14 can execute the methods in the implementations shown in FIG. 1 to FIG. 13. Implementation principles and technical effects are not described again, and reference can be made to related descriptions in the previous implementations.

[0118] The previous descriptions show and describe several preferred
30 implementations of the present disclosure. However, as described above, it should be understood that the present disclosure is not limited to the form disclosed in present specification, and the form is not intended to be excluded from other implementations, but can be used in various other combinations, modifications, and environments, and can be modified within the scope of the inventive concept of the present specification

by using technologies and knowledge in the previous teaching or the related field. In addition, the modifications and variations made by a person skilled in the art all should fall within the protection scope of the appended claims of the present disclosure provided that they do not depart from the spirit and scope of the present disclosure.

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CLAIMS

1. A method for processing a group message, comprising:
 - displaying a plurality of messages posted adjacent to each other by a messaging group comprising a plurality of contacts;
 - detecting a user input indicating that a profile picture of a first contact in a group message display interface is dragged by a predetermined distance in a first direction, the user input indicating a selection to display a first set of messages posted by the first contact (101);
 - identifying, from among the plurality of messages, (i) the first set of messages corresponding to the selection to display and (ii) a second set of messages of the plurality of messages posted by the messaging group, the second set of messages excluding the first set of messages and user messages (102); and
 - updating, the group message display interface, to comprise the profile picture of the first contact at a predetermined location, the first set of messages, and one or more aggregation icons representing the second set of messages.
2. The method according to claim 1, further comprising:
 - wherein the one or more aggregation icons comprise a message quantity based on a number of messages in the second set of messages, the message quantity corresponding to a display location in the group message display interface according to a time sequence that the messages are posted (103).
3. The method according to claim 1 or 2, further comprising:
 - changing a color of the group message display interface, and/or displaying, in the group message display interface, a prompt of selecting the messages of the first contact.
4. The method according to claim 1 or 2, further comprising:
 - displaying a first icon and a second icon at a predetermined location in the group message display interface, wherein the first icon represents an icon indicating all contacts, and the second icon represents a profile picture icon indicating the selected first contact.

5. The method according to claim 4, further comprising:
- displaying messages of all the contacts according to a time sequence that the messages are posted when detecting, at the predetermined location in the group message display interface, that the first icon is tapped (201); and/or
 - displaying all messages corresponding to the message quantity according to a time sequence that the messages are posted when detecting, in the group message display interface, that the message quantity is tapped (202).
6. The method according to claim 2, wherein, after displaying all the messages of the first contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the first contact, the method further comprises:
- detecting that a profile picture of a second contact in the group message display interface is dragged by a predetermined distance in the first direction (401);
 - additionally displaying all messages of the second contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the second contact, wherein all the messages of the first contact and all the messages of the second contact are displayed according to a time sequence that the messages are posted (402);
 - additionally displaying a third icon at a predetermined location in the group message display interface, wherein the third icon represents a profile picture icon indicating the second contact (403); and
 - subtracting, in the group message display interface, a message quantity of the second contact from the second set of messages (404).
7. The method according to claim 6, further comprising:
- detecting that a second icon or the third icon at the predetermined location in the group message display interface is dragged by a predetermined distance in a second direction (501);
 - skipping displaying, in the group message display interface, a message of a contact corresponding to the second icon or the third icon (502); and
 - increasing, in the group message display interface by a message quantity of the contact corresponding to the second icon or the third icon, the message quantity that is displayed at the display location according to a time sequence that the messages are posted (503).

8. The method according to any one of claims 1 to 7, further comprising:
- in response to detecting a new message, displaying the new message in the group message display interface if it is determined that the new message is a new message posted by the first contact or a new message posted by a user; or
 - if it is determined that the new message is a new message posted by another contact, skipping displaying the new message in the group message display interface, and displaying the message quantity at the display location according to a time sequence that the messages are posted.
9. A device for processing a group message, the device comprising:
- a first display module, configured to display a plurality of messages in a group message display interface, the plurality of messages being posted adjacent to each other in a messaging group comprising a plurality of contacts;
 - a detection module, configured to detect a user input indicating that a profile picture of a first contact of the messaging group is dragged by a predetermined distance in a first direction, the user input indicating a selection to display a first set of messages posted by the first contact; and
 - a hiding module, configured to:
 - identify, from among the plurality of messages, (i) the first set of messages corresponding to the selection to display and (ii) a second set of messages of the plurality of messages posted by the messaging group, the second set of messages excluding the first set of messages and user messages, and
 - update, the group message display interface, to comprise the profile picture of the first contact at a predetermined location, the first set of messages, and one or more aggregation icons representing the second set of messages.
10. The device according to claim 9, wherein the one or more aggregation icons comprise a message quantity based on a number of messages in the second set of messages, the message quantity corresponding to a display location in the group message display interface according to a time sequence that the messages are posted.
11. The device according to claim 9 or 10, further comprising:

a selection prompt module, configured to:

after the detection module detects that the profile picture of the first contact in the group message display interface is dragged by the predetermined distance in the first direction, change a color of the group message display interface, and/or display, in the group message display interface, a prompt of selecting the messages of the first contact.

12. The device according to claim 9 or 10, further comprising:

a third display module, configured to display a first icon and a second icon at a predetermined location in the group message display interface, wherein the first icon represents an icon indicating all contacts, and the second icon represents a profile picture icon indicating the selected first contact.

13. The device according to claim 12, wherein:

the detection module is further configured to detect, at the predetermined location in the group message display interface, that the first icon is tapped; and

the first display module is further configured to display messages of all the contacts according to a time sequence that the messages are posted; and/or

the detection module is further configured to detect, in the group message display interface, that the message quantity is tapped; and

the first display module is further configured to display all messages corresponding to the message quantity according to a time sequence that the messages are posted.

14. The device according to claim 9 or 10, wherein:

the detection module is further configured to:

after the first display module displays all the messages of the first contact in the group message display interface according to a time sequence that the messages are posted, detect that a profile picture of a second contact in the group message display interface is dragged by a predetermined distance in the first direction;

the first display module is further configured to: display all messages of the second contact in the group message display interface according to a time sequence that the messages are posted based on the profile picture of the second contact, wherein all the messages of the first

contact and all the messages of the second contact are displayed according to a time sequence that the messages are posted;

a third display module is configured to display a third icon at a predetermined location in the group message display interface, wherein the third icon represents a profile picture icon indicating the second contact; and

a second display module is configured to subtract, in the group message display interface, a message quantity of the second contact from the second set of messages,

and wherein:

the detection module is further configured to detect that a second icon or the third icon at the predetermined location in the group message display interface is dragged by a predetermined distance in a second direction;

the first display module is further configured to skip displaying, in the group message display interface, a message of a contact corresponding to the second icon or the third icon; and

the second display module is further configured to increase, in the group message display interface by a message quantity of the contact corresponding to the second icon or the third icon, the message quantity of the other contacts that is displayed at the display location according to a time sequence that the messages are posted.

15. The device according to any one of claims 9 to 14, wherein:

the first display module is further configured to display a new message in the group message display interface if the detection module detects the new message and determines that the new message is a new message posted by the first contact or a new message posted by a user; and

the second display module is further configured to: if the detection module detects a new message and determines that the new message is a new message posted by another contact, skip displaying a new message in the group message display interface, and display the message quantity at the display location according to a time sequence that the messages are posted.