

INTERACTION METHOD AND APPARATUS, AND DEVICE, STORAGE MEDIUM AND PRODUCT

[0001] The present application claims priority to Chinese Patent Application No. 202410613335.4, filed on May 16, 2024, which is incorporated herein by reference in its entirety as a part of the present application.

TECHNICAL FIELD

[0002] Embodiments of the present disclosure relate to an interaction method and apparatus, a device, a storage medium and a product.

BACKGROUND

[0003] With the development of mobile internet, the progress of network technology and the popularization of intelligent terminals, more and more users watch live streaming.

[0004] Viewers may interact with a streaming host by posting comments and the like while watching live streaming.

[0005] However, when the number of comments posted by the viewers is relatively large, it is difficult for the streaming host or operation personnel of a live streaming video interface to efficiently interact with the viewers.

SUMMARY

[0006] Embodiments of the present disclosure provide an interaction method and apparatus, a device, a storage medium and a product.

[0007] In a first aspect, an embodiment of the present disclosure provides an interaction method, including:

[0008] displaying, in a preset page, a comment information set and a comment summary information set that correspond to a target live streaming video interface, where the comment summary information set includes at least one piece of comment summary information, single piece of the comment summary information is determined based on a plurality of pieces of comment information that belong to a same preset category in the comment information set, and the plurality of pieces of the comment information are posted by viewers in the target live streaming video interface;

[0009] displaying a preset control corresponding to the comment summary information at a first associated position of the comment summary information; and

[0010] triggering a preset event for first target comment summary information in response to a trigger operation for a target preset control, where the target preset control is a triggered preset control, and the first

target comment summary information is the comment summary information corresponding to the target preset control.

[0011] In a second aspect, an embodiment of the present disclosure provides an interaction apparatus, including:

[0012] an information display module, configured to display, in a preset page, a comment information set and a comment summary information set that correspond to a target live streaming video interface, where the comment summary information set includes at least one piece of comment summary information, single piece of the comment summary information is determined based on a plurality of pieces of comment information that belong to a same preset category in the comment information set, and the plurality of pieces of the comment information are posted by viewers in the target live streaming video interface;

[0013] a preset control display module, configured to display a preset control corresponding to the comment summary information at a first associated position of the comment summary information; and

[0014] an event trigger module, configured to trigger a preset event for first target comment summary information in response to a trigger operation for a target preset control, where the target preset control is a triggered preset control, and the first target comment summary information is the comment summary information corresponding to the target preset control.

[0015] In a third aspect, an embodiment of the present disclosure provides an electronic device, including:

[0016] one or more processors; and

[0017] a storage apparatus, configured to store one or more programs,

[0018] where the one or more programs, when executed by the one or more processors, cause the one or more processors to implement the interaction method provided by the embodiments of the present disclosure.

[0019] In a fourth aspect, an embodiment of the present disclosure provides a storage medium including computer-executable instructions, where the computer-executable instructions, when executed by a computer processor, are used to perform the interaction method provided by the embodiments of the present disclosure.

[0020] In a fifth aspect, an embodiment of the present disclosure provides a computer program product, including a computer program, where the computer program, when executed by a processor, implements the interaction method provided by the embodiments of the present disclosure.

BRIEF DESCRIPTION OF DRAWINGS

[0021] The above and other features, advantages and aspects of the embodiments of the present disclosure will become more apparent when taken in conjunction with the drawings and with reference to the following detailed description. Throughout the drawings, the same or similar reference numbers refer to the same or similar elements. It should be understood that the drawings are schematic and that the components and elements are not necessarily drawn to scale.

- [0022] Fig. 1 is a schematic flowchart of an interaction method provided by an embodiment of the present disclosure;
- [0023] Fig. 2 is a schematic flowchart of another interaction method provided by an embodiment of the present disclosure;
- [0024] Fig. 3 is a schematic diagram of interface interaction provided by an embodiment of the present disclosure;
- [0025] Fig. 4 is a schematic flowchart of another interaction method provided by an embodiment of the present disclosure;
- [0026] Fig. 5 is a schematic diagram of interface interaction provided by an embodiment of the present disclosure;
- [0027] Fig. 6 is a schematic structural diagram of an interaction apparatus provided by an embodiment of the present disclosure; and
- [0028] Fig. 7 is a schematic structural diagram of an electronic device provided by an embodiment of the present disclosure.

DETAILED DESCRIPTION

- [0029] Embodiments of the present disclosure will be described in more detail below with reference to the drawings. Although some embodiments of the present disclosure are shown in the drawings, it should be understood that the present disclosure may be implemented in various forms and should not be construed as limited to the embodiments set forth herein; on the contrary, these embodiments are provided for a more thorough and complete understanding of the present disclosure. It should be understood that the drawings and embodiments of the present disclosure are only for exemplary purposes and are not intended to limit the protection scope of the present disclosure.
- [0030] It should be understood that the various steps described in the method implementations of the present disclosure may be performed in different orders and/or in parallel. Furthermore, the method implementations may include additional steps and/or omit the implementation of some shown steps. The scope of the present disclosure is not limited in this regard.
- [0031] As used herein, the term "include/comprise" and variations thereof are open-ended inclusions, that is, "include/comprise but not limited to". The term "based on" is "based at least in part on". The term "an embodiment" means "at least one embodiment"; the term "another embodiment" means "at least one other embodiment"; the term "some embodiments" means "at least some embodiments". Relevant definitions of other terms will be given in the following description.
- [0032] It should be noted that the concepts such as "first" and "second" mentioned in the present disclosure are only used to distinguish different apparatuses, modules or units, and are not used to limit the order of functions performed by these apparatuses, modules or units or their interdependence.

- [0033] It should be noted that the modifications of "a" and "a plurality of" mentioned in the present disclosure are illustrative rather than restrictive, and those skilled in the art should understand that unless the context clearly indicates otherwise, they should be understood as "one or more".
- [0034] It may be understood that before using the technical solutions disclosed in the embodiments of the present disclosure, the user should be informed of the type, scope of use, use scenarios, etc. of personal information involved in the present disclosure in an appropriate manner and the authorization of the user should be obtained in accordance with relevant laws and regulations.
- [0035] It may be understood that the data involved in the technical solution (including but not limited to the data itself, acquisition or use of the data) should comply with requirements of corresponding laws, regulations and relevant provisions.
- [0036] Fig. 1 is a schematic flowchart of an interaction method provided by an embodiment of the present disclosure. The embodiment of the present disclosure is applicable to a situation of interacting with comment information of a live streaming video interface. The method may be performed by an interaction apparatus, which may be implemented in a form of software and/or hardware. Optionally, the interaction apparatus is implemented by an electronic device. The electronic device may be a mobile terminal such as a mobile phone, a smart watch, a tablet computer and a personal digital assistant, and may also be a device such as a personal computer (PC) or a server.
- [0037] As shown in Fig. 1, the method includes:
- [0038] Step 101: displaying, in a preset page, a comment information set and a comment summary information set that correspond to a target live streaming video interface, where the comment summary information set includes at least one piece of comment summary information, single piece of the comment summary information is determined based on a plurality of pieces of comment information that belong to a same preset category in the comment information set, and the plurality of pieces of the comment information are posted by viewers in the target live streaming video interface.
- [0039] Exemplarily, the preset page is a page in a preset client, and the preset client may be a client used by a manager, an operator, a live streamer or other related personnel corresponding to the target live streaming video interface. The preset page may be a web page or an application page of the preset client displayed on the electronic device, which is not specifically limited. Users targeted by the preset page may be the manager, the operator or related personnel mentioned above, and may also be a streamer (hereinafter collectively referred to as a live streaming user for ease of distinguishing from the viewers). The live streaming video interface may be an interface used to display live stream, such as an interface of a live streaming room, and the live streaming video interface may be an interface for viewing the live stream on an audience side, and may also be an interface for viewing the live stream on a live streamer side. The target live streaming video interface may be a live streaming video interface corresponding to a live stream currently hosted by the live streaming user, and may be any type of live streaming video interface, which is not specifically limited.

[0040] Exemplarily, the comment information set may include comment information posted by the viewers, and may also include comment information posted by the live streaming user, the comment information set is generally displayed in a streaming manner according to the posting time of the comment information. When there are a relatively large number of viewers in the target live streaming video interface, the number of comment information in the comment information set is generally relatively large, which may contain a large amount of similar comment content, making it difficult for the live streaming user to efficiently browse the comment information posted by the viewers.

[0041] In the embodiment of the present disclosure, comment content in historical comment information may be analyzed, and a plurality of categories of comment information may be preset and recorded as preset categories, and the number of the preset categories is one or more, where different types of live streaming video interfaces may correspond to different preset categories. Taking an object explanation live streaming video interface as an example, an object may be a resource that may be acquired through the live streaming video interface, such as a commodity, an item, service, information or virtual resource, and the preset categories may include an explanation request category and an inquiry category, which may be further divided in detail. Taking the object being a commodity as an example, the inquiry category may include a commodity specification (such as a size or a weight) inquiry category (for example, what size to wear for a person with a height of 170 cm and a weight of 60 kg), a commodity price and gift inquiry category (for example, is it always 19 yuan and what gifts are given) and an express logistics inquiry category (for example, when to ship and how many days to arrive). Optionally, different explanation objects may also correspond to different preset categories, such as an explanation request category for commodity No. 1 and an explanation request category for commodity No. 2, which may be two different preset categories.

[0042] Exemplarily, the comment information posted by the viewer on the target live streaming video interface is acquired, and the comment information is classified using a preset comment classification model to determine whether the comment information belongs to the preset categories. For a plurality of pieces of comment information belonging to the same preset category, corresponding comment summary information is determined to be displayed on the preset page.

[0043] Optionally, single piece of the comment summary information is determined by at least one of the following manners: determining the corresponding comment summary information according to preset category description information corresponding to preset category to which the plurality of pieces of the comment information belong; determining the corresponding comment summary information according to the preset category description information corresponding to the preset category to which the plurality of pieces of the comment information belong and an object number of a same target preset object associated with the plurality of pieces of the comment information, where the preset object belongs to a preset object set associated with the target live streaming video interface; determining the corresponding comment summary information according to target comment information in the plurality of pieces of the comment information, where the target comment information is comment information with a highest frequency of

occurrence in the plurality of pieces of comment information, or comment information of which posting time satisfies a preset requirement in the plurality of pieces of the comment information; or summarizing comment content of the plurality of pieces of comment information to obtain the corresponding comment summary information.

[0044] The preset category description information may be text information used to describe the preset category, such as the name of the preset category, for example, "explanation request", "express logistics consultation", "size and weight consultation" and "price and gift consultation", etc. The preset object set is a set of objects that may be explained on the target live streaming video interface, that is, the preset object is an object that may be explained on the target live streaming video interface (which may also be referred to as an explanation object for short), which may include an object currently being explained, may also include an object that has been explained, and may further include an object that has not been explained. The object number may specifically be the number in the preset object set. Specifically, a summary template is set according to the preset category description information, for example, "explanation request for commodity No. x", and "x" in the summary template is replaced with the object number to obtain the comment summary information such as "explanation request for commodity No. 7".

[0045] For the comment information with the highest frequency of occurrence in the plurality of pieces of comment information, specifically, clustering may be performed according to whether the comment content are identical, to obtain clusters respectively corresponding to different comment content, and the comment information corresponding to the cluster containing the largest number of comment information is the comment information with the highest frequency of occurrence. The posting time satisfies the preset requirement, for example, the posting time is the earliest or the posting time is the latest, or the posting time is a median, which may be set according to actual requirements.

[0046] A manner of summarizing is not limited, for example, a natural language processing model may be used to implement the summarizing. For example, for the comment information belonging to the explanation request category, there may be "please show gray pants No. 7", "just came in and didn't hear about pants No. 7" and "live streamer, please talk about No. 7 again", etc., and the corresponding comment summary information such as "explanation request for commodity No. 7" may be obtained by summarizing these comment information.

[0047] Exemplarily, there may be a plurality of pieces of comment information respectively corresponding to different preset categories in the comment information set, and different preset categories may correspond to different comment summary information, therefore, the comment summary information set may include one piece of comment summary information or a plurality of pieces of comment summary information. It should be noted that if there is no comment information of the preset category in the comment information set, the comment summary information may not be displayed.

[0048] Step 102: displaying a preset control corresponding to the comment summary information at a first associated position of the comment summary information.

[0049] Exemplarily, the distance between the first associated position and the display position where the comment summary information is located is less than a first preset distance threshold, and the first associated position may be, for example, the right side of the display position where the comment summary information is located, which is convenient for the live streaming user to quickly locate the preset control corresponding to the comment summary information. There may be a one-to-one relationship between the comment summary information and the preset control, that is, different comment summary information corresponds to different preset controls. The preset control is used to trigger a preset event for the corresponding comment summary information.

[0050] Step 103: triggering a preset event for first target comment summary information in response to a trigger operation for a target preset control, where the target preset control belongs to the preset control, and the first target comment summary information is the comment summary information corresponding to the target preset control.

[0051] Exemplarily, the target preset control is a preset control currently triggered by the live streaming user, and the comment summary information corresponding to the triggered preset control is recorded as the first target comment summary information. The preset event for the first target comment summary information may be an event of performing preset processing for the first target comment summary information specifically, and a specific processing manner of the preset processing is not limited, and may be batch processing or unified processing for a plurality of pieces of comment information corresponding to the first target comment summary information, so as to improve the processing efficiency of the plurality of pieces of comment information of the same preset category. For example, a display manner of the plurality of pieces of comment information corresponding to the first target comment summary information may be changed, a comment reply to the plurality of pieces of comment information corresponding to the first target comment summary information may be triggered, etc., which may be set according to actual requirements.

[0052] According to the interaction method provided by the embodiments of the present disclosure, the comment information set and the comment summary information set that correspond to the target live streaming video interface are displayed in the preset page, where single piece of the comment summary information is determined based on the plurality of pieces of comment information that belong to the same preset category in the comment information set, and the plurality of pieces of the comment information are posted by the viewers in the target live streaming video interface; the preset control corresponding to the comment summary information is displayed at the first associated position of the comment summary information; and the preset event for the first target comment summary information is triggered in response to the trigger operation for the target preset control. By adopting the above technical solution, the comment summary information set determined according to the plurality of pieces of comment information belonging to the same preset category in the comment information set is displayed while displaying the comment information set of the live streaming video interface, so that the user viewing the preset page may efficiently

browse the comment information, and the preset event for the target comment summary information may be conveniently triggered by triggering the preset control, thus improving the processing efficiency of the comment information of the preset category.

[0053] In some embodiments, the method further includes: displaying a target number corresponding to the comment summary information at a second associated position of the comment summary information, where the plurality of pieces of the comment information are comment information within a recent preset duration, the target number is the number of the plurality of pieces of the comment information, and the target number is greater than or equal to a preset number threshold. Therefore, the live streaming user can quickly obtain the number of comment information within the recent preset duration corresponding to each piece of comment summary information, thereby assisting the live streaming user to quickly make a decision on whether a certain preset control needs to be triggered, and further improving the processing efficiency of the comment information.

[0054] Exemplarily, the comment summary information set may be updated at a preset frequency. For example, the comment information within the recent preset duration may be acquired at the preset frequency, and classification based on the preset category may be performed, and then the comment summary information set is determined, which can ensure the timeliness of the comment summary information. The preset frequency may be, for example, once a minute, and the preset duration may be, for example, 5 minutes. Assuming that it is 9:00, the comment information from 8:55 to 9:00 is acquired, classification based on the preset categories is performed, and the comment summary information set is determined; after 1 minute, the comment information from 8:56 to 9:01 is acquired, classification based on the preset categories is performed again, and the comment summary information set is updated, where the comment information from 8:56 to 9:00 does not need to be re-acquired, and the preset categories to which the comment information from 8:56 to 9:00 belongs does not need to be re-determined, so as to save operations and improve efficiency. After acquiring the comment information from 9:00 to 9:01 and determining the preset categories to which the comment information from 9:00 to 9:01 belongs, for the comment information from 8:56 to 9:01, a plurality of pieces of comment information and a target number corresponding to each of the preset categories are determined.

[0055] Exemplarily, if the number of comment information of a certain preset category is relatively small, the improvement of processing efficiency brought about by displaying the comment summary information is relatively limited, and a certain display space of the preset page will be occupied. Therefore, if the number of comment information is less than the preset number threshold (which may be set according to actual requirements, such as 3), such as less than 3, the corresponding comment summary information may not be displayed. If the number of comment information is greater than or equal to 3, the corresponding comment summary information may be displayed, and the number (the target number) may be displayed at the second associated position of the comment summary information. Exemplarily, the distance between the second associated position and the display position where the comment summary information is located is less than

a second preset distance threshold, and the second associated position may be, for example, the right side of the display position where the comment summary information is located, specifically between the display position where the comment summary information is located and the preset control.

[0056] In some embodiments, the displaying, in the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, includes: displaying, in a first area of the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, where the first area includes a first sub-area and a second sub-area, the first sub-area is used to display the comment summary information set, the second sub-area is used to display the comment information set, and the first sub-area is located above or on an upper layer of the second sub-area. Therefore, the comment summary information set and the comment information set are displayed in different areas in the first area used to view the comment information in the preset page, and the comment summary information set is displayed above or on the upper layer of the comment information set, so that the live streaming user can more quickly and intuitively view the comment summary information and the corresponding preset control, and the processing efficiency of the comment information may be further improved.

[0057] Exemplarily, the first area may be an area originally used to display the comment information set in the preset page. In the embodiment of the present disclosure, the first area is divided, so that the first area includes the first sub-area and the second sub-area, the comment information set is displayed in the second sub-area, and the comment summary information set is displayed in the first sub-area, thereby realizing the reuse of the original page area and increasing the amount of information displayed in the first area. In the case where the first sub-area is located on the upper layer of the second sub-area, the first sub-area is displayed in response to the comment summary information existing, and the first sub-area may be hidden in response to no comment summary information existing.

[0058] In some embodiments, the displaying, in the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, includes: displaying, in a first area of the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, where the first area includes a second sub-area and a third sub-area, the second sub-area is used to display the comment information set, the third sub-area is used to display category identifications respectively corresponding to a plurality of preset categories, the relationship between the preset categories and the category identifications is one-to-one or many-to-one, and the category identifications are used to trigger display of comment information of a corresponding preset category. Therefore, by setting the category identifications corresponding to the preset categories, the live streaming user can be facilitated to conveniently view the comment information of the corresponding preset categories by triggering the category identifications.

[0059] Exemplarily, the relationship between the preset categories and the category identifications is one-to-one or many-to-one, that is, different preset categories may correspond to different category

identifications, and a plurality of different preset categories may also correspond to the same category identification. For example, the explanation request category may correspond to a category identification "explanation request", the commodity specification inquiry category, the commodity price and gift inquiry category and the express logistics inquiry category may correspond to a category identification "inquiry", and all preset categories and comment information other than the preset categories may correspond to a category identification "all". Optionally, the third sub-area is located above the first sub-area.

[0060] Optionally, the method may further include: displaying, in response to a trigger operation for a first category identification, the first category identification in a selected state, and displaying, in the second sub-area, comment information of a preset category corresponding to the first category identification in the comment information set. Therefore, the display switching of the comment information of different preset categories may be quickly performed.

[0061] Optionally, the triggering the preset event for first target comment summary information in response to a trigger operation for the target preset control, includes: displaying, in response to the trigger operation for the target preset control, a target category identification corresponding to a preset category to which the first target comment summary information belongs in a selected state, and displaying, in the second sub-area, comment information of the preset category corresponding to the target category identification in the comment information set, where the target category identification belongs to the category identification. Therefore, after the live streaming user triggers the target preset control, the comment information under the category identification corresponding to the preset category to which the plurality of pieces of comment information corresponding to the first target comment summary information belong may be viewed centrally, thus improving the viewing efficiency of the comment information.

[0062] In some embodiments, the first target comment summary information is associated with a first target preset object, and the first target preset object belongs to a preset object set associated with the target live streaming video interface; the preset page includes a second area, and the second area is used to display object information of a preset object in the preset object set.

[0063] The first target comment summary information being associated with the first target preset object may specifically be that the first target preset object is mentioned in the first target comment summary information. For example, the first target preset object associated with the comment summary information "explanation request for commodity No. 7" as mentioned above is commodity No. 7.

[0064] The object information of the preset object may include object attribute information and/or image resource information of the preset object, and may further include other information related to the preset object. The object attribute information may include, for example, an object identification (such as a commodity name), an object acquisition cost (such as a commodity price), an object inventory (such as whether there is stock or a remaining quantity), a brand or a model, etc. The image resource information may include information of resources such as an image and/or a video associated with the explanation object, such as a schematic diagram of the commodity (such as a commodity photo specifically) or a commodity

explanation video (such as a live streaming replay video of the commodity specifically). A specific display manner of the object information in the second area is not limited, and the object information may be displayed in a form of a list or a matrix, for example, a commodity list.

[0065] Optionally, the triggering the preset event for first target comment summary information in response to the trigger operation for the target preset control, includes at least one of the following (1) to (3): (1) controlling, in response to the trigger operation for the target preset control, the object information displayed in the second area to be displayed in a manner of sliding, so that object information of the first target preset object is displayed at a preset position in the second area; (2) controlling, in response to the trigger operation for the target preset control, the object information of the first target preset object to be displayed in the second area in a first preset style, where object information of preset objects other than the first target preset object in the preset object set is displayed in the second area in a second preset style, and the second preset style is different from the first preset style; (3) displaying, in response to the trigger operation for the target preset control, first target popularity information at a third associated position of the object information of the first target preset object, where the first target popularity information is determined according to the preset category to which the first target comment summary information belongs and/or a target number corresponding to the first target comment summary information, and the target number is the number of the plurality of pieces of the comment information. Therefore, the comment information of the preset category may be processed more flexibly and efficiently.

[0066] For ease of illustration, the following describes an example that includes (1) to (3).

[0067] Fig. 2 is a schematic flowchart of another interaction method provided by an embodiment of the present disclosure. The embodiment of the present disclosure is optimized based on various optional solutions in the above embodiment. Specifically, the method includes the following steps.

[0068] Step 201: displaying, in a first area of a preset page, a comment information set and a comment summary information set that correspond to a target live streaming video interface.

[0069] Optionally, the first area includes a third sub-area, a first sub-area and a second sub-area from top to bottom, where the first sub-area is used to display the comment summary information set, the second sub-area is used to display the comment information set, and the third sub-area is used to display category identifications respectively corresponding to a plurality of preset categories.

[0070] Fig. 3 is a schematic diagram of interface interaction provided by an embodiment of the present disclosure. As shown in Fig. 3, the preset page 301 may be, for example, a central control page of a live streaming video interface, the preset page 301 includes a first area 302, and the first area 302 includes a third sub-area 303, a first sub-area 304 and a second sub-area 305 from top to bottom. The comment information set is displayed in the second sub-area 305, and the category identifications respectively corresponding to the plurality of preset categories, such as "explanation request" and "inquiry", are displayed in the third sub-area 303, and the category identifications other than the category identifications

corresponding to the preset categories, such as "followers", may also be included. The comment summary information set is displayed in the first sub-area 304.

[0071] Step 202: displaying a preset control corresponding to the comment summary information at a first associated position of the comment summary information, and displaying a target number corresponding to the comment summary information at a second associated position of the comment summary information.

[0072] Optionally, if a certain preset category corresponds to a plurality of pieces of comment summary information, the plurality of pieces of comment summary information may be displayed in descending order of the corresponding target numbers, so that the live streaming user may preferentially view the comment summary information corresponding to a larger number of comment information, and the probability that the comment summary information is preferentially processed may be increased, thereby further improving the processing efficiency of the comment information.

[0073] As shown in Fig. 3, it is assumed that the comment summary information set includes three pieces of comment summary information, and the first and second pieces of comment summary information belong to the explanation request category, which request explanations for commodity No. 1 and commodity No. 2 respectively. Because there is more comment information requesting an explanation for commodity No. 2, the comment summary information requesting an explanation for commodity No. 2 is displayed more forward. For each piece of the comment summary information, the corresponding target number is displayed at the corresponding second associated position, such as "122", "45" and "52" in Fig. 3, and the corresponding preset control is displayed at the corresponding first associated position, such as "go and have a look" and "set a top comment" in the figure.

[0074] Step 203: controlling, in response to a trigger operation for a target preset control, object information displayed in a second area to be displayed in a manner of sliding, so that object information of a first target preset object associated with first target comment summary information is displayed at a preset position in the second area in a first preset style, and displaying first target popularity information at a third associated position of the object information of the first target preset object.

[0075] Object information of preset objects other than the first target preset object in the preset object set is displayed in the second area in a second preset style, the second preset style is different from the first preset style, and the first target popularity information is determined according to the preset category to which the first target comment summary information belongs and/or the target number corresponding to the first target comment summary information.

[0076] Exemplarily, the preset position may be a display position of first piece of object information in the second area. By triggering the target preset control, the object information displayed in the second area may be automatically slid as a whole, so that the object information of the first target preset object is automatically displayed at the preset position, and the automatic positioning display of the object information of the first target preset object in the second area is realized.

- [0077] As shown in Fig. 3, after the user clicks the target preset control 306, the preset object "commodity No. 2" associated with the corresponding first target comment summary information "explanation request for commodity No. 2" is determined as the first target preset object, and the commodity information (object information) in the second area 307 automatically slides down, so that the commodity information 308 of "commodity No. 2" is automatically displayed at the first place in the second area 307.
- [0078] Exemplarily, the second preset style being different from the first preset style may be specifically reflected in a frame thickness, a background color, etc. As shown in Fig. 3, the frame of the commodity information 308 of "commodity No. 2" is thicker than the frames of the commodity information of other commodities (such as commodity No. 3), and the background color of the commodity information 308 of "commodity No. 2" is deeper than the background colors of the commodity information of other commodities (such as commodity No. 3). Therefore, the live streaming user can find the object information corresponding to the triggered target preset control more quickly.
- [0079] Exemplarily, the third associated position may be inside the display area where the object information of the first target preset object is located. The first target popularity information may include the preset category to which the first target comment summary information belongs, so that the live streaming user can know the demand of the viewer for the first target preset object more quickly and intuitively; the first target popularity information may include the target number corresponding to the first target comment summary information, so that the live streaming user can know the number of viewers who have corresponding demands for the first target preset object more quickly and intuitively. As shown in Fig. 3, the first target popularity information 309 "122 people request an explanation" is displayed in the display area where the object information of commodity b is located.
- [0080] Optionally, the object information may include a preset explanation control, such as an "explanation" button in each piece of object information in Fig. 3. In response to a trigger operation for the preset explanation control, the preset object to which the preset explanation control belongs is triggered to enter an explanation state. Exemplarily, after entering the explanation state, an explanation unit, such as an explanation card, of the corresponding preset object may be displayed on a live streaming page on the viewer side of the target live streaming video interface, where the explanation unit includes associated image information and a target interaction control of the preset object currently being explained, such as a commodity picture and an add-to-shopping cart control.
- [0081] Optionally, displaying, in response to the trigger operation for the target preset control, the target category identification corresponding to the preset category to which the first target comment summary information belongs in the selected state, and displaying, the comment information of the preset category corresponding to the target category identification in the comment information set, in the second sub-area. As shown in Fig. 3, after the live streaming user clicks the target preset control 306, in the third sub-area 303, the state changes from the original "all" being in the selected state to "explanation request" being in

the selected state, and in addition, in the second sub-area 305, the display of all types of comment information changes to the display of comment information of the "explanation request" type.

[0082] According to the interaction method provided by the embodiments of the present disclosure, the comment summary information set determined according to the plurality of pieces of comment information belonging to the same preset category in the comment information set is displayed while displaying the comment information set of the live streaming video interface, so that the user viewing the preset page may efficiently browse the comment information, and can conveniently control the prominent display of the object information of the target preset object corresponding to the preset control and the display of the target popularity information by triggering the preset control, thus enabling more flexible and efficient processing of the comment information of the preset category, and further improving the processing efficiency of the comment information of the preset category.

[0083] In some embodiments, after the displaying, in the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, the method further includes: displaying, in a third area of the preset page, an object identification of a second target preset object and a target control of the second target preset object, where the second target preset object belongs to the preset object set associated with the target live streaming video interface, and the second target preset object is associated with second target comment summary information in the comment summary information set. Therefore, the preset object that is highly concerned by the viewer, such as the preset object with the most comment information of the explanation request type, may be automatically recommended to the live streaming user in the case that the live streaming user does not actively trigger the preset control.

[0084] Optionally, in response to a trigger operation for the target control, at least one of the following (4) to (7) is performed: (4) triggering the second target preset object to enter an explanation state; (5) controlling the object information displayed in the second area to be displayed in the manner of sliding, so that object information of the second target preset object is displayed at the preset position in the second area; (6) controlling the object information of the second target preset object to be displayed in the second area in the first preset style, where object information of preset objects other than the second target preset object in the preset object set is displayed in the second area in the second preset style; (7) displaying second target popularity information at a fourth associated position of the object information of the second target preset object, where the second target popularity information is determined according to a preset category to which the second target comment summary information belongs and/or a target number corresponding to the second target comment summary information, and the target number is the number of the plurality of pieces of comment information.

[0085] Exemplarily, the above (4) may correspond to the explanation function, which is similar to the function of the preset explanation control in the object information; and the above (5) to (7) are similar to the function of the preset control. As shown in Fig. 3, the object identification (which may include, for

example, object attributes) of the second target preset object (which may be identical to or different from the first target preset object) is displayed in the third area 310, such as the commodity picture of commodity b in Fig. 3, and the target controls are also displayed, such as the "explanation" control and the "positioning" control in Fig. 3. If the "explanation" control is clicked, the above (4) may be triggered, and if the "positioning" control is clicked, at least one of the above (5) to (7) may be triggered.

[0086] In some embodiments, the preset page includes a fourth area, the fourth area is used to input comment content, and the fourth area includes a position setting control. The fourth area may be understood as an area for the live streaming user to input the comment content, and the position setting control may be, for example, a control used to set the display position of the comment information to be posted on the live streaming page on the viewer side, for example, a control used to set whether to display the posted comment information containing the received comment content at a target position on the live streaming page on the viewer side of the target live streaming video interface, where the target position may be, for example, a top position, that is, the position of the first piece of comment information in the area used to display the comment information on the live streaming page.

[0087] Fig. 4 is a schematic flowchart of another interaction method provided by an embodiment of the present disclosure. The embodiment of the present disclosure is optimized based on various optional solutions in the above embodiment. Specifically, the method includes the following steps.

[0088] Step 401: displaying, in a first area of a preset page, a comment information set and a comment summary information set that correspond to a target live streaming video interface.

[0089] Step 402: displaying a preset control corresponding to comment summary information at a first associated position of the comment summary information, and displaying a target number corresponding to the comment summary information at a second associated position of the comment summary information.

[0090] Step 403: controlling, in response to a trigger operation for a target preset control, a fourth area to be displayed in a preset state, and controlling a position setting control to enter a trigger state, where the preset state is a comment content receiving state, and in response to the position setting control is in the trigger state, posted comment information containing received comment content is displayed at a target position on a live streaming page of an viewer side of the target live streaming video interface.

[0091] Fig. 5 is a schematic diagram of interface interaction provided by an embodiment of the present disclosure. As shown in Fig. 5, it is assumed that the live streaming user triggers the target preset control 501, and the fourth area 502 for receiving the comment content is displayed in the preset state, for example, the fourth area 502 is activated and is capable of receiving the comment content input by the live streaming user. The specific display style is shown in Fig. 5 with a bolded frame, and the position setting control 503 in the fourth area 502 enters the trigger state, and the corresponding checkbox is selected. Therefore, after the live streaming user inputs the comment content and clicks the "send" button, the posted comment information containing the comment content is displayed at the top of the live streaming page on the viewer side of the target live streaming video interface, so that all viewers in the target live streaming video interface

can quickly view the comment information, thereby quickly answering the questions asked in the inquiry-type comment information of many viewers, without sending reply information to the viewer side that posted the inquiry-type comment information separately, thus saving network resources. Optionally, the posted comment information containing the received comment content is continuously displayed at the target position on the live streaming page on the viewer side of the target live streaming video interface for a target duration, such as 1 minute, so as to avoid being flooded by other comment information and increase the probability of being viewed by the viewers.

[0092] According to the interaction method provided by the embodiments of the present disclosure, the comment summary information set determined according to the plurality of pieces of comment information belonging to the same preset category in the comment information set is displayed while displaying the comment information set of the live streaming video interface, so that the user viewing the preset page may efficiently browse the comment information, and can conveniently trigger the release of the top comment for the target comment summary information by triggering the preset control, thus further improving the processing efficiency of the comment information of the preset category.

[0093] Fig. 6 is a schematic structural diagram of an interaction apparatus provided by an embodiment of the present disclosure. As shown in Fig. 6, the apparatus includes:

[0094] an information display module 601, configured to display, in a preset page, a comment information set and a comment summary information set that correspond to a target live streaming video interface, where the comment summary information set includes at least one piece of comment summary information, single piece of the comment summary information is determined based on a plurality of pieces of comment information that belong to a same preset category in the comment information set, and the plurality of pieces of comment information are posted by viewers in the target live streaming video interface;

[0095] a preset control display module 602, configured to display a preset control corresponding to the comment summary information at a first associated position of the comment summary information; and

[0096] an event trigger module 603, configured to trigger a preset event for first target comment summary information in response to a trigger operation for a target preset control, where the target preset control is a triggered preset control, and the first target comment summary information is comment summary information corresponding to the target preset control.

[0097] According to the interaction apparatus provided by the embodiments of the present disclosure, the comment summary information set determined according to the plurality of pieces of comment information belonging to the same preset category in the comment information set is displayed while displaying the comment information set of the live streaming video interface, so that the user viewing the preset page may efficiently browse the comment information, and can conveniently trigger the preset event for the target comment summary information by triggering the preset control, thus improving the processing efficiency of the comment information of the preset category.

[0098] Optionally, the apparatus further includes:

- [0099] a target number display module, configured to display a target number corresponding to the comment summary information at a second associated position of the comment summary information, where the plurality of pieces of comment information are comment information within a recent preset duration, the target number is the number of the plurality of pieces of comment information, and the target number is greater than or equal to a preset number threshold.
- [0100] Optionally, the information display module is configured to display, in a first area of the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, where the first area includes a first sub-area and a second sub-area, the first sub-area is used to display the comment summary information set, the second sub-area is used to display the comment information set, and the first sub-area is located above or on an upper layer of the second sub-area.
- [0101] Optionally, the information display module is configured to display, in a first area of the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, where the first area includes a second sub-area and a third sub-area, the second sub-area is used to display the comment information set, the third sub-area is used to display category identifications respectively corresponding to a plurality of preset categories, a relationship between the preset categories and the category identifications is one-to-one or many-to-one, and the category identifications are used to trigger display of comment information of a corresponding preset category;
- [0102] the event trigger module is configured to:
- [0103] in response to the trigger operation for the target preset control, display a target category identification corresponding to a preset category to which the first target comment summary information belongs in a selected state, and display, in the second sub-area, comment information of the preset category corresponding to the target category identification in the comment information set, where the target category identification belongs to the category identification.
- [0104] Optionally, the first target comment summary information is associated with a first target preset object, and the first target preset object belongs to a preset object set associated with the target live streaming video interface; the preset page includes a second area, and the second area is used to display object information of a preset object in the preset object set;
- [0105] the event trigger module is configured to perform at least one of the following:
- [0106] controlling, in response to the trigger operation for the target preset control, the object information displayed in the second area to be displayed in a manner of sliding, so that object information of the first target preset object is displayed at a preset position in the second area;
- [0107] controlling, in response to the trigger operation for the target preset control, the object information of the first target preset object to be displayed in the second area in a first preset style, where object information of preset objects other than the first target preset object in the preset object set is displayed in

- the second area in a second preset style, and the second preset style is different from the first preset style;
and
- [0108] displaying, in response to the trigger operation for the target preset control, first target popularity information at a third associated position of the object information of the first target preset object, where the first target popularity information is determined according to the preset category to which the first target comment summary information belongs and/or a target number corresponding to the first target comment summary information, and the target number is the number of the plurality of pieces of comment information.
 - [0109] Optionally, the apparatus further includes:
 - [0110] an identification control display module, configured to, after the displaying, in the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, display, in a third area of the preset page, an object identification of a second target preset object and a target control of the second target preset object, where the second target preset object belongs to the preset object set associated with the target live streaming video interface, and the second target preset object is associated with second target comment summary information in the comment summary information set; and
 - [0111] a target control trigger module, configured to perform at least one of the following in response to a trigger operation for the target control:
 - [0112] triggering the second target preset object to enter an explanation state;
 - [0113] controlling the object information displayed in the second area to be displayed in the manner of sliding, so that object information of the second target preset object is displayed at the preset position in the second area;
 - [0114] controlling the object information of the second target preset object to be displayed in the second area in the first preset style, where object information of preset objects other than the second target preset object in the preset object set is displayed in the second area in the second preset style; and
 - [0115] displaying second target popularity information at a fourth associated position of the object information of the second target preset object, where the second target popularity information is determined according to the preset category to which the second target comment summary information belongs and/or a target number corresponding to the second target comment summary information, and the target number is the number of the plurality of pieces of comment information.
 - [0116] Optionally, the preset page includes a fourth area, the fourth area is used to input comment content, and the fourth area includes a position setting control;
 - [0117] the event trigger module is configured to:
 - [0118] control, in response to the trigger operation for the target preset control, the fourth area to be displayed in a preset state, and control the position setting control to enter a trigger state, where the preset state is a comment content receiving state, and in response to the position setting control is in the trigger

state, posted comment information containing received comment content is displayed at a target position on a live streaming page of an viewer side of the target live streaming video interface.

[0119] Optionally, the single piece of comment summary information is determined by at least one of the following manners:

[0120] determining the corresponding comment summary information according to preset category description information corresponding to preset category to which the plurality of pieces of comment information belong;

[0121] determining the corresponding comment summary information according to the preset category description information corresponding to the preset category to which the plurality of pieces of comment information belong and an object number of a same preset object associated with the plurality of pieces of comment information, where the preset object belongs to the preset object set associated with the target live streaming video interface;

[0122] determining the corresponding comment summary information according to target comment information in the plurality of pieces of comment information, where the target comment information is comment information with a highest frequency of occurrence in the plurality of pieces of comment information, or comment information of which posting time satisfies a preset requirement in the plurality of pieces of comment information; or

[0123] summarizing comment content of the plurality of pieces of comment information to obtain the corresponding comment summary information.

[0124] The interaction apparatus provided by the embodiments of the present disclosure may perform the interaction method provided by any embodiment of the present disclosure, and has corresponding functional modules for performing the method and beneficial effects.

[0125] It is worth noting that the units and modules included in the above apparatus are only divided according to functional logic, but are not limited to the above division, as long as the corresponding functions may be realized; in addition, the specific names of the functional units are only for the convenience of distinguishing from each other, and are not used to limit the protection scope of the embodiments of the present disclosure.

[0126] Fig. 7 is a schematic structural diagram of an electronic device provided by an embodiment of the present disclosure. Reference is made to Fig. 7 below, which illustrates a schematic structural diagram of an electronic device (such as a terminal device or a server in Fig. 7) 700 suitable for implementing the embodiments of the present disclosure. The terminal device in the embodiments of the present disclosure may include, but is not limited to, mobile terminals such as a mobile phone, a notebook computer, a digital broadcast receiver, a personal digital assistant (PDA), a portable android computer (PAD), a portable multimedia player (PMP) and a vehicle-mounted terminal (such as a vehicle navigation terminal), and fixed terminals such as a digital TV and a desktop computer. The electronic device shown in Fig. 7 is only an

example, and should not impose any limitation on the functions and the range of use of the embodiments of the present disclosure.

[0127] As shown in Fig. 7, the electronic device 700 may include a processing apparatus (such as a central processing unit and a graphics processor) 701, which may perform various appropriate actions and processes according to a program stored in a read-only memory (ROM) 702 or a program loaded from a storage apparatus 708 into a random access memory (RAM) 703. In the RAM 703, various programs and data required for operations of the electronic device 700 are also stored. The processing apparatus 701, the ROM 702 and the RAM 703 are connected to each other through a bus 704. An editing/output (I/O) interface 705 is also connected to the bus 704.

[0128] Usually, the following apparatuses may be connected to the I/O interface 705: an input apparatus 706 including, for example, a touch screen, a touchpad, a keyboard, a mouse, a camera, a microphone, an accelerometer and a gyroscope; an output apparatus 707 including, for example, a liquid crystal display (LCD), a speaker and a vibrator; the storage apparatus 708 including, for example, a magnetic tape and a hard disk; and a communication apparatus 709. The communication apparatus 709 may allow the electronic device 700 to perform wireless or wired communication with other devices to exchange data. Although Fig. 7 shows the electronic device 700 having various apparatuses, it should be understood that it is not required to implement or have all the apparatuses shown. More or fewer apparatuses may be implemented or provided alternatively.

[0129] In particular, according to the embodiments of the present disclosure, the process described above with reference to the flowchart may be implemented as a computer software program. For example, the embodiments of the present disclosure include a computer program product, which includes a computer program carried on a non-transitory computer-readable medium, where the computer program includes program code for performing the method shown in the flowchart. In such an embodiment, the computer program may be downloaded and installed from a network through the communication apparatus 709, or installed from the storage apparatus 708, or installed from the ROM 702. When the computer program is executed by the processing apparatus 701, the above-mentioned functions defined in the method of the embodiments of the present disclosure are executed.

[0130] The names of messages or information exchanged between a plurality of apparatuses in the implementations of the present disclosure are only for illustrative purposes, and are not intended to limit the scope of these messages or information.

[0131] The electronic device provided by the embodiments of the present disclosure belongs to the same inventive concept as the interaction method provided by the above embodiments. For technical details not described in detail in this embodiment, reference may be made to the above embodiments, and this embodiment has the same beneficial effects as the above embodiments.

[0132] An embodiment of the present disclosure provides a computer storage medium having a computer program stored thereon, where the interaction method provided by the above embodiments is implemented when the program is executed by a processor.

[0133] An embodiment of the present disclosure provides a computer program product, including a computer program, where the interaction method provided by the above embodiments is implemented when the program is executed by a processor.

[0134] It should be noted that the above computer-readable medium in the present disclosure may be a computer-readable signal medium, a computer-readable storage medium, or any combination thereof. The computer-readable storage medium may be, for example, but not limited to, an electrical, magnetic, optical, electromagnetic, infrared, or semiconductor system, apparatus or device, or any combination of the above. More specific examples of the computer-readable storage medium may include, but are not limited to: an electrical connection having one or more wires, a portable computer magnetic disk, a hard disk, a random access memory (RAM), a read-only memory (ROM), an erasable programmable read-only memory (EPROM or flash memory), an optical fiber, a portable compact disk read-only memory (CD-ROM), an optical storage device, a magnetic storage device, or any suitable combination of the above. In the present disclosure, the computer-readable storage medium may be any tangible medium that contains or stores a program, which may be used by or in combination with an instruction execution system, apparatus or device. In the present disclosure, the computer-readable signal medium may include a data signal propagated on a baseband or as a part of a carrier wave, and computer-readable program code is carried therein. This propagated data signal may take many forms, including but not limited to, an electromagnetic signal, an optical signal, or any suitable combination of the above. The computer-readable signal medium may also be any computer-readable medium other than the computer-readable storage medium, and the computer-readable signal medium may send, propagate or transmit the program used by or in combination with the instruction execution system, apparatus or device. The program code contained on the computer-readable medium may be transmitted by any suitable medium, including but not limited to: a wire, an optical cable, a radio frequency (RF), etc., or any suitable combination of the above.

[0135] The above computer-readable medium may be included in the above electronic device, or may exist alone without being assembled into the electronic device.

[0136] The above computer-readable medium carries one or more programs, and when the one or more programs are executed by the electronic device, the electronic device: displays, in a preset page, a comment information set and a comment summary information set that correspond to a target live streaming video interface, where the comment summary information set includes at least one piece of comment summary information, single piece of the comment summary information is determined based on a plurality of pieces of comment information that belong to a same preset category in the comment information set, and the plurality of pieces of comment information are posted by viewers in the target live streaming video interface; displays a preset control corresponding to the comment summary information at a first associated position

of the comment summary information; and triggers a preset event for first target comment summary information in response to a trigger operation for a target preset control, where the target preset control belongs to the preset control, and the first target comment summary information is comment summary information corresponding to the target preset control.

[0137] Computer program code for performing operations of the present disclosure may be written in one or more programming languages or a combination thereof, where the programming languages include, but are not limited to, an object-oriented programming language such as Java, Smalltalk and C++, and further include conventional procedural programming languages such as "C" language or similar programming languages. The program code may be executed entirely on a computer of a user, partly executed on a computer of a user, executed as an independent software package, partly executed on a computer of a user and partly executed on a remote computer, or entirely executed on a remote computer or a server. In the case of involving a remote computer, the remote computer may be connected to a computer of a user through any kind of network, including a local area network (LAN) or a wide area network (WAN), or may be connected to an external computer (for example, connected through the Internet using an Internet service provider).

[0138] The flowcharts and block diagrams in the drawings illustrate the possibly implemented architectures, functions and operations of the system, the method and the computer program product according to various embodiments of the present disclosure. In this regard, each block in the flowchart or block diagram may represent a module, program segment, or a part of code, which contains one or more executable instructions for implementing the specified logical functions. It should also be noted that, in some alternative implementations, the functions marked in the blocks may also occur in an order different from that marked in the drawings. For example, two blocks shown in succession may actually be executed substantially in parallel, or they may sometimes be executed in the reverse order, depending on the functions involved. It should also be noted that each block in the block diagram and/or the flowchart, and a combination of the blocks in the block diagram and/or the flowchart may be implemented by a dedicated hardware-based system that executes specified functions or operations, or may be implemented by a combination of dedicated hardware and computer instructions.

[0139] The units involved in the embodiments of the present disclosure may be implemented by software or hardware. The name of a module does not constitute a limitation on the module itself under certain circumstances, for example, the preset control display module may also be described as "a module for displaying a corresponding preset control at a first associated position of the comment summary information".

[0140] The functions described above herein may be performed at least partially by one or more hardware logic components. For example, without limitation, exemplary types of hardware logic components that may be used include: a field programmable gate array (FPGA), an application specific integrated circuit

(ASIC), an application specific standard product (ASSP), a system on chip (SOC), a complex programmable logic device (CPLD), etc.

[0141] In the context of the present disclosure, a machine-readable medium may be a tangible medium that may contain or store a program for use by or in combination with an instruction execution system, apparatus or device. The machine-readable medium may be a machine-readable signal medium or a machine-readable storage medium. The machine-readable medium may include, but is not limited to, an electronic, magnetic, optical, electromagnetic, infrared, or semiconductor system, apparatus or device, or any suitable combination of the above. More specific examples of the machine-readable storage medium would include an electrical connection based on one or more lines, a portable computer disk, a hard disk, a random access memory (RAM), a read-only memory (ROM), an erasable programmable read-only memory (EPROM or flash memory), an optical fiber, a portable compact disk read-only memory (CD-ROM), an optical storage device, a magnetic storage device, or any suitable combination of the above.

[0142] The above description is only preferred embodiments of the present disclosure and an explanation of the applied technical principles. Those skilled in the art should understand that the scope of disclosure involved in the present disclosure is not limited to the technical solutions formed by the specific combinations of the above technical features, and should also cover other technical solutions formed by any combination of the above technical features or their equivalent features without departing from the above disclosure concept, for example, a technical solution formed by replacing the above features with technical features with similar functions disclosed in the present disclosure (but not limited to).

[0143] Furthermore, although the various operations are depicted in a particular order, this should not be understood as requiring the operations to be performed in the particular order shown or in a sequential order. Under certain circumstances, multitasking and parallel processing may be advantageous. Similarly, although the above discussion contains a number of specific implementation details, these should not be interpreted as limiting the scope of the present disclosure. Certain features described in the context of separate embodiments may also be implemented in a single embodiment in combination. Conversely, various features described in the context of a single embodiment may also be implemented in a plurality of embodiments individually or in any suitable sub-combinations.

[0144] Although the subject matter has been described in a language specific to structural features and/or logical actions of the method, it should be understood that the subject matter defined in the appended claims is not necessarily limited to the specific features or actions described above. On the contrary, the specific features and actions described above are only exemplary forms for implementing the claims.

CLAIMS

1. An interaction method, comprising:

displaying, in a preset page, a comment information set and a comment summary information set that correspond to a target live streaming video interface, wherein the comment summary information set comprises at least one piece of comment summary information, single piece of the comment summary information is determined based on a plurality of pieces of comment information that belong to a same preset category in the comment information set, and the plurality of pieces of the comment information are posted by viewers in the target live streaming video interface;

displaying a preset control corresponding to the comment summary information at a first associated position of the comment summary information; and

triggering a preset event for first target comment summary information in response to a trigger operation for a target preset control, wherein the target preset control is a triggered preset control, and the first target comment summary information is the comment summary information corresponding to the target preset control.

2. The method according to claim 1, further comprising:

displaying a target number corresponding to the comment summary information at a second associated position of the comment summary information, wherein the plurality of pieces of the comment information are comment information within a recent preset duration, the target number is a number of the plurality of pieces of the comment information, and the target number is greater than or equal to a preset number threshold.

3. The method according to claim 1 or 2, wherein the displaying, in the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, comprises:

displaying, in a first area of the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, wherein the first area comprises a first sub-area and a second sub-area, the first sub-area is used to display the comment summary information set, the second sub-area is used to display the comment information set, and the first sub-area is located above or on an upper layer of the second sub-area.

4. The method according to claim 1 or 2, wherein the displaying, in the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, comprises:

displaying, in a first area of the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, wherein the first area comprises a second sub-area and a third sub-area, the second sub-area is used to display the comment information set, the third

sub-area is used to display category identifications respectively corresponding to a plurality of preset categories, a relationship between the preset categories and the category identifications is one-to-one or many-to-one, and the category identifications are used to trigger display of comment information of a corresponding preset category,

wherein the triggering the preset event for first target comment summary information in response to the trigger operation for the target preset control, comprises:

displaying, in response to the trigger operation for the target preset control, a target category identification corresponding to a preset category to which the first target comment summary information belongs in a selected state, and displaying, in the second sub-area, comment information of the preset category corresponding to the target category identification in the comment information set, wherein the target category identification belongs to the category identifications.

5. The method according to any one of claims 1 to 4, wherein the first target comment summary information is associated with a first target preset object, and the first target preset object belongs to a preset object set associated with the target live streaming video interface; the preset page comprises a second area, and the second area is used to display object information of a preset object in the preset object set;

wherein the triggering the preset event for first target comment summary information in response to the trigger operation for the target preset control, comprises at least one of the following:

controlling, in response to the trigger operation for the target preset control, the object information displayed in the second area to be displayed in a manner of sliding, so that object information of the first target preset object is displayed at a preset position in the second area;

controlling, in response to the trigger operation for the target preset control, the object information of the first target preset object to be displayed in the second area in a first preset style, wherein object information of preset objects other than the first target preset object in the preset object set is displayed in the second area in a second preset style, and the second preset style is different from the first preset style; or

displaying, in response to the trigger operation for the target preset control, first target popularity information at a third associated position of the object information of the first target preset object, wherein the first target popularity information is determined according to the preset category to which the first target comment summary information belongs and/or a target number corresponding to the first target comment summary information, and the target number is a number of the plurality of pieces of the comment information.

6. The method according to claim 5, wherein after the displaying, in the preset page, the comment information set and the comment summary information set that correspond to the target live streaming video interface, the method further comprises:

displaying, in a third area of the preset page, an object identification of a second target preset object and a target control of the second target preset object, wherein the second target preset object belongs to the preset object set associated with the target live streaming video interface, and the second target preset object is associated with second target comment summary information in the comment summary information set; and performing at least one of the following in response to a trigger operation for the target control: triggering the second target preset object to enter an explanation state; controlling the object information displayed in the second area to be displayed in the manner of sliding, so that object information of the second target preset object is displayed at the preset position in the second area; controlling the object information of the second target preset object to be displayed in the second area in the first preset style, wherein object information of preset objects other than the second target preset object in the preset object set is displayed in the second area in the second preset style; or displaying second target popularity information at a fourth associated position of the object information of the second target preset object, wherein the second target popularity information is determined according to a preset category to which the second target comment summary information belongs and/or a target number corresponding to the second target comment summary information, and the target number is a number of the plurality of pieces of the comment information.

7. The method according to any one of claims 1 to 6, wherein the preset page comprises a fourth area, the fourth area is used to input comment content, and the fourth area comprises a position setting control; wherein the triggering the preset event for first target comment summary information in response to the trigger operation for the target preset control, comprises:

controlling, in response to the trigger operation for the target preset control, the fourth area to be displayed in a preset state, and controlling the position setting control to enter a trigger state, wherein the preset state is a comment content receiving state, and in response to the position setting control is in the trigger state, posted comment information containing received comment content is displayed at a target position on a live streaming page of an viewer side of the target live streaming video interface.

8. The method according to any one of claims 1 to 7, wherein the single piece of the comment summary information is determined by at least one of the following manners:

determining the corresponding comment summary information according to preset category description information corresponding to preset category to which the plurality of pieces of the comment information belong;

determining the corresponding comment summary information according to the preset category description information corresponding to the preset category to which the plurality of pieces of the comment information belong, and an object number of a same preset object associated with the plurality of pieces of

the comment information, wherein the preset object belongs to the preset object set associated with the target live streaming video interface;

determining the corresponding comment summary information according to target comment information in the plurality of pieces of the comment information, wherein the target comment information is comment information with a highest frequency of occurrence in the plurality of pieces of the comment information, or comment information of which posting time satisfies a preset requirement in the plurality of pieces of the comment information; or

summarizing comment content of the plurality of pieces of the comment information to obtain the comment summary information.

9. An interaction apparatus, comprising:

an information display module, configured to display, in a preset page, a comment information set and a comment summary information set that correspond to a target live streaming video interface, wherein the comment summary information set comprises at least one piece of comment summary information, single piece of the comment summary information is determined based on a plurality of pieces of comment information that belong to a same preset category in the comment information set, and the plurality of pieces of the comment information are posted by viewers in the target live streaming video interface;

a preset control display module, configured to display a preset control corresponding to the comment summary information at a first associated position of the comment summary information; and

an event trigger module, configured to trigger a preset event for first target comment summary information in response to a trigger operation for a target preset control, wherein the target preset control is a triggered preset control, and the first target comment summary information is the comment summary information corresponding to the target preset control.

10. An electronic device, comprising:

one or more processors; and

a storage apparatus, configured to store one or more programs,

wherein the one or more programs, when executed by the one or more processors, cause the one or more processors to implement the interaction method according to any one of claims 1 to 8.

11. A storage medium comprising computer-executable instructions, wherein the computer-executable instructions, when executed by a computer processor, are used to perform the interaction method according to any one of claims 1 to 8.

12. A computer program product, comprising a computer program, wherein the computer program, when executed by a processor, implements the interaction method according to any one of claims 1 to 8.