

METHOD, APPARATUS, DEVICE, AND STORAGE MEDIUM FOR SETTING COVER

[0001] The present application claims priority to Chinese Patent Application No. 202410390313.6, filed on April 01, 2024 and entitled "METHOD, APPARATUS, DEVICE, AND STORAGE MEDIUM FOR SETTING COVER", which is incorporated herein by reference in its entirety.

TECHNICAL FIELD

[0002] Example embodiments of the present disclosure generally relate to the field of computers, and in particular, to a method, an apparatus, a device, and a computer-readable storage medium for setting a cover.

BACKGROUND

[0003] In recent years, with the development of the Internet, media content has become an important carrier for sharing information or acquiring information. In different scenarios, styles of preview content of the provided media content may be different. For example, different types of components may support displaying covers with different proportions.

SUMMARY

[0004] In a first aspect of the present disclosure, a method for setting a cover is provided, including: providing, in a setting interface of a media content, a plurality of entries for setting a plurality of covers of the media content, the plurality of entries being associated with a plurality of cover proportions; presenting an editing interface in response to a selection of a first entry among the plurality of entries, the first entry corresponding to a first cover proportion; generating a first cover corresponding to the first cover proportion based on an editing operation in the editing interface; and generating a second cover corresponding to a second cover proportion among the plurality of cover proportions based at least in part on the generated first cover.

[0005] In a second aspect of the present disclosure, an apparatus for setting a cover is provided. The apparatus includes: a providing module configured to provide, in a setting interface of a media content, a plurality of entries for setting a plurality of covers of the media content, the plurality of entries being associated with a plurality of cover proportions; a presenting module configured to present an editing interface in response to a selection of a first entry among the plurality of entries, the first entry corresponding to a first cover proportion; a first generation module configured to generate a first cover corresponding to the first cover proportion based on an editing operation in the editing interface; and a second generation module configured to generate a second cover corresponding to a second cover proportion among the plurality of cover proportions based at least in part on the generated first cover.

[0006] In a third aspect of the present disclosure, an electronic device is provided. The device includes at least one processor; and at least one memory coupled to the at least one processor and storing instructions executable by the at least one processor. The instructions, when executed by the at least one processor, cause the device to perform the method of the first aspect.

[0007] In a fourth aspect of the present disclosure, a computer-readable storage medium is provided. The

computer-readable storage medium stores computer-executable instructions, the computer-executable instructions are executable by a processor to implement the method of the first aspect.

[0008] In a fifth aspect of the present disclosure, a computer program product is provided. The computer program product is tangibly stored in a computer storage medium and includes computer-executable instructions, the computer-executable instructions, when executed by a device, cause the device to implement the method of the first aspect.

[0009] It should be understood that the content described in this Summary section is neither intended to identify key or essential features of the embodiments of the present disclosure, nor is it intended to limit the scope of the present disclosure. Other features of the present disclosure will be readily envisaged through the following description.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] The above and other features, advantages and aspects of the embodiments of the present disclosure will become more apparent in combination with the drawings and with reference to the following detailed description. In the drawings, the same or similar reference symbols refer to the same or similar elements, where:

[0011] Fig. 1 shows a schematic diagram of an example environment in which the embodiments according to the present disclosure may be implemented;

[0012] Fig. 2 shows a flow chart of an example process of setting a cover according to some embodiments of the present disclosure;

[0013] Figs. 3A to 3E show example interfaces according to some embodiments of the present disclosure;

[0014] Fig. 4 shows a schematic structural block diagram of an example apparatus for setting a cover according to some embodiments of the present disclosure; and

[0015] Fig. 5 shows a block diagram of an electronic device capable of implementing multiple embodiments of the present disclosure.

DETAILED DESCRIPTION OF EMBODIMENTS

[0016] The embodiments of the present disclosure are described in more detail hereinafter with reference to the drawings. The drawings illustrate some embodiments of the present disclosure, but 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. Instead, 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 illustrative purposes and are not intended to limit the scope of protection of the present disclosure.

[0017] It should be noted that the titles of any section/subsection provided herein are not restrictive. Various embodiments are described throughout this specification, and any type of embodiment may be included under any section/subsection. In addition, the embodiments described in any section/subsection may be combined with any other embodiments described in the same section/subsection and/or different section/subsection in any manner.

[0018] In the description of the embodiments of the present disclosure, the term "include/comprise" and similar terms should be understood as open-ended inclusions, that is, "include/comprise but not limited to". The term "based on" should be understood as "at least partially based on". The term "one embodiment" or "the embodiment" should be understood as "at least one embodiment". The term "some embodiments" should be understood as "at least some embodiments". Other definitions, either explicit or implicit, may be included below. The terms "first", "second", etc. may refer to different or same objects. Other definitions, either explicit or implicit, may be included below.

[0019] The embodiments of the present disclosure may involve data of a user, acquisition and/or use of data, etc. These aspects all comply with corresponding laws, regulations and related provisions. In the embodiments of the present disclosure, all data collection, acquisition, processing, machining, forwarding, use, etc. are performed on the premise that the user knows and confirms. Accordingly, when implementing the embodiments of the present disclosure, the user should be informed of the type, range of use, use scenarios, etc. of possible data or information involved and the authorization of the user should be obtained in an appropriate manner in accordance with relevant laws and regulations. A specific manner of informing and/or authorizing may be changed according to actual situations and application scenarios, and the scope of the present disclosure is not limited in this regard.

[0020] The solutions in the specification and embodiments, if involving personal information processing, will be processed on the premise of having a legal basis (for example, obtaining the consent of the personal information subject, or being necessary for performing a contract, etc.), and will only be processed within a specified or agreed scope. If the user refuses to process personal information other than necessary information required for a basic function, it will not affect the user's use of the basic function.

[0021] As mentioned above, the user expects the same produced media content to adapt to various display requirements. Taking the display of a cover of media content as an example, a cover produced according to one cover proportion may not adapt to display scenarios with various different cover proportions.

[0022] The embodiments of the present disclosure provide a solution for setting a cover. According to the solution, a plurality of entries for setting a plurality of covers of a media content may be provided in a setting interface of the media content, wherein the plurality of entries are associated with a plurality of cover proportions; an editing interface may be presented in response to a selection of a first entry among the plurality of entries, wherein the first entry corresponds to a first cover proportion; a first cover corresponding to the first cover proportion may be generated based on an editing operation in the editing interface; and a second cover corresponding to a second cover proportion among the plurality of cover proportions may be generated based at least in part on the generated first cover.

[0023] In this way, the embodiments of the present disclosure are capable of supporting the user to produce covers with various proportions for the media content, which may facilitate the media content to adapt to multi-scenario display, thereby improving the display effect of the media content.

[0024] Various example implementations of the solution are described in detail hereinafter in further conjunction with the drawings.

Example Environment

[0025] Fig. 1 shows a schematic diagram of an example environment 100 in which the embodiments of the present disclosure may be implemented. As shown in Fig. 1, the example environment 100 may include an electronic device 110.

[0026] In the example environment 100, the electronic device 110 may run an application 120 supporting interface interaction. The application 120 may be any appropriate type of application for interface interaction, examples of which may include but are not limited to: a video application, a social application, or other appropriate applications. A user 140 may interact with the application 120 via the electronic device 110 and/or its attached device.

[0027] In the environment 100 of Fig. 1, if the application 120 is in active state, the electronic device 110 may present an interface 150 for supporting the interface interaction through the application 120.

[0028] In some embodiments, the electronic device 110 communicates with a server 130 to implement the provision of services for the application 120. The electronic device 110 may be any type of mobile terminal, fixed terminal or portable terminal, including a mobile phone, a desktop computer, a laptop computer, a notebook computer, a netbook computer, a tablet computer, a media computer, a multimedia tablet, a palmtop computer, a portable game terminal, a VR/AR device, a Personal Communication System (PCS) device, a personal navigation device, a Personal Digital Assistant (PDA), an audio/video player, a digital camera/video camera, a positioning device, a TV receiver, a radio broadcast receiver, an e-book device, a game device, or any combination of the foregoing, including accessories and peripherals of these devices or any combination thereof. In some embodiments, the electronic device 110 may also support any type of user-specific interface (such as "wearable" circuitry, etc.).

[0029] The server 130 may be an independent physical server, a server cluster or a distributed system composed of multiple physical servers, or may be a cloud server that provides basic cloud computing services such as cloud services, cloud databases, cloud computing, cloud functions, cloud storage, network services, cloud communications, middleware services, domain name services, security services, content delivery networks, and big data and artificial intelligence platforms. The server 130 may include, for example, a computing system/server, such as a mainframe, an edge computing node, a computing device in a cloud environment, and the like. The server 130 may provide background services for the application 120 supporting a virtual scene in the electronic device 110.

[0030] A communication connection may be established between the server 130 and the electronic device 110. The communication connection may be established in a wired or wireless manner. The communication connection may include but is not limited to a Bluetooth connection, a mobile network connection, a Universal Serial Bus (USB) connection, a Wireless Fidelity (WiFi) connection, etc., and the embodiments of the present disclosure are not limited in this regard. In the embodiments of the present disclosure, the server 130 and the electronic device 110 may implement signaling interaction through the communication connection therebetween.

[0031] It should be understood that the structure and function of each element in the environment 100 are described for illustrative purposes only, without implying any limitation on the scope of the present disclosure.

[0032] Some example embodiments of the present disclosure are described hereinafter with continued reference to the drawings.

Example Process

[0033] Fig. 2 shows a flow chart of an example process of setting a cover according to some embodiments of the present disclosure. The process 200 may be implemented at the electronic device 110. The process 200 is described below with reference to Fig. 1 and Figs. 3A to 3E.

[0034] As shown in Fig. 2, at block 210, the electronic device 110 may provide, in a setting interface of a media content, a plurality of entries for setting a plurality of covers of the media content, the plurality of entries are associated with a plurality of cover proportions. In some embodiments, the setting interface of the media content may be a posing interface for a piece of work to be posted or an editing interface for a piece of existing work. In some embodiments, the media content may be any appropriate media content including visual content, such as video content, picture album content, electronic album, etc.

[0035] In some embodiments, the plurality of cover proportions may correspond to cover setting requirements of a plurality of platforms. For example, the proportion of image of the media content displayed on platform A is proportion A, and the proportion of image of the media content displayed on platform B is proportion B (different from proportion A). The plurality of cover proportions may include proportion A and proportion B. The entry associated with proportion A may set a cover adapted to platform A, and the entry associated with proportion B may set a cover adapted to platform B.

[0036] In some embodiments, the providing, by the electronic device 110, in the setting interface of a media content, a plurality of entries for setting a plurality of covers of the media content may include: providing, in response to a proportion of the media content satisfying a preset condition, the plurality of entries in the setting interface of the media content.

[0037] In some embodiments, the preset condition may be that the media content is horizontal screen content or that the media content is vertical screen content. As an example, the horizontal screen content may indicate that the width of the media content is greater than the height, on the contrary, the vertical screen content may indicate that the height of the media content is greater than the width. For example, the electronic device 110, for example, may support providing a plurality of cover setting entries only for the horizontal screen content.

[0038] In some embodiments, the electronic device 110 may provide a setting interface 300A as shown in Fig. 3A. In the interface 300A, the electronic device 110 may provide a cover entry area 305, and the cover entry area 305 may include a plurality of entries, such as a horizontal cover entry 305-1 and a vertical cover entry 305-2. The cover proportion corresponding to the horizontal cover entry 305-1 may be 4:3, and the cover proportion corresponding to the vertical cover entry 305-2 may be 3:4. In some examples, name and/or proportion information corresponding to the entry may be displayed below the entry.

[0039] In some embodiments, the electronic device 110 may further provide a plurality of recommended covers 250-3 in the cover entry area 305. The recommended covers are intelligently generated according to the current media content. For example, the recommended covers 250-3 may be images captured from the media content, or may be covers related to the theme of the media content.

[0040] In some embodiments, the electronic device 110 provides, in the cover entry area, a plurality of recommended covers 250-3 matching a cover proportion of the entry based on the selection of the entry.

[0041] Continuing to refer to Fig. 2, at block 220, the electronic device 110 may present an editing interface in response to a selection of a first entry among the plurality of entries, wherein the first entry corresponds to a first cover proportion. It should be understood that the first entry is an entry selected from the plurality of entries, that is, the first entry may represent any one of the plurality of entries.

[0042] In some embodiments, continuing to refer to Fig. 3A, the electronic device 110 may receive the user's selection of the first entry (taking the horizontal cover entry 305-1 as an example) among the plurality of entries, and present an editing interface 300B as shown in Fig. 3B accordingly.

[0043] Continuing to refer to Fig. 2, at block 230, the electronic device 110 may generate a first cover corresponding to the first cover proportion based on an editing operation in the editing interface.

[0044] In some embodiments, the electronic device 110 may obtain a first image and determine a second image matching the first cover proportion according to the first image. Further, the electronic device 110 may generate the first cover including the second image according to the second image.

[0045] Taking Fig. 3B as an example, the electronic device 110 may provide an uploading control 315 in the editing interface 300B of Fig. 3B. Further, as an example, the electronic device 110 may present a selection interface including a plurality of reference cover images in response to the triggering of the uploading control 315. The electronic device 110 may receive at least one reference cover image selected by the user on the selection interface as the first image. The reference cover image may be a local image stored by the user in the electronic device 110. For example, the electronic device 110 may also invoke the camera and display a preview interface for taking pictures in response to the triggering of the uploading control 315. Further, the electronic device 110 may receive a photo taken by the user as the first image in response to the user's shooting operation, and continue to present the editing interface 300B, that is, the electronic device 110 may receive the photo taken and uploaded by the user as the first image.

[0046] In some embodiments, the electronic device 110 may provide a media image area 320 in the editing interface 300A of Fig. 3A. The electronic device 110 may provide a plurality of media content images in the media image area 320. The media content image is an image included in the media content. The electronic device 110 may receive the user's selection of a target image among the plurality of media content images, and take the target image as the first image. As an example, when the type of the media content is video, the plurality of media content images are video frames. In some embodiments, the video frames may be presented as a plurality of video frames intelligently recommended by the electronic device 110, or may be presented as all video frames corresponding to the media content that may be freely selected by the user.

[0047] Continuing with the example of Fig. 3B, the electronic device 110 may provide a cover setting area 310 in the editing interface 300B of Fig. 3B. The determined first image may be displayed in the cover setting area 310. The electronic device 110 may further display a selection box corresponding to the current cover proportion in the cover setting area 310, and may determine an image portion matching the current cover proportion from the first image based on the user's movement of the selection box, to be used as the second image.

[0048] In some embodiments, the electronic device 110 may distinctively display a portion of the first image selected as the second image and other portions of the first image in the cover setting area 310. As an example, the electronic device 110 may highlight the image portion in the selector.

[0049] In some embodiments, the electronic device 110 may further add at least one material to the second image based on the user's editing operation, to generate the first cover, where the at least one material may include a text material and/or an image material. As an example, the text material may include a title and text, and the image material may include stickers and other image content.

[0050] In some embodiments, the electronic device 110 may provide a plurality of setting items 325 in the editing interface 300B of Fig. 3B. For example, as shown in the interface 300B of Fig. 3B, the plurality of setting items 325 may include a selection setting item, a template setting item, a sticker setting item, a title setting item, a text setting item, and a filter setting item.

[0051] In some embodiments, the electronic device 110 may receive the user's adjustment of the capture position of the first image in response to the triggering of the selection setting item, and display the second image captured from the first image in the cover setting area 310. The user's adjustment of the capture position of the first image is based on the first cover proportion, that is, the user may arbitrarily adjust the capture position in the first image to obtain the second image based on the first cover proportion.

[0052] In some embodiments, the electronic device 110 may receive a target template selected by the user from a plurality of templates in response to the triggering of the template setting item, and display the second image in the cover setting area 310 based on the target template.

[0053] In some embodiments, the electronic device 110 may receive a target sticker selected by the user from a plurality of stickers in response to the triggering of the sticker setting item, and display the target sticker on the second image in the cover setting area 310. Further, the electronic device 110 may receive the user's dragging operation to change the position of the target sticker.

[0054] In some embodiments, the electronic device 110 may display a title or text in a natural language input by the user on the second image in the cover setting area 310 in response to the triggering of the title setting item or the text setting item. Further, the electronic device 110 may receive the user's dragging operation to change the position of the title or text.

[0055] In some embodiments, the electronic device 110 may receive a target filter selected by the user from a plurality of filters in response to the triggering of the filter setting item, and display the second image in the cover setting area 310 based on the target filter.

[0056] In some embodiments, continuing to refer to Fig. 3B, the electronic device 110 may also present a first preview component 330 in the editing interface 300B of Fig. 3B. The electronic device 110 may display, in the first preview component 330, a presentation result of the current cover content in a corresponding interface, such as the presentation result 330-1 shown in Fig. 3B. It should be noted that the current cover content may include the second image and at least one material added to the second image.

[0057] In some embodiments, the electronic device 110 may also update the first preview component 330 in real time in response to the editing on the current cover content in the cover setting area 310. As an example, in response to the user adding the sticker material to the second image in the cover setting area 310, the electronic device 110 may add a sticker material to the current cover content displayed in the first preview component 330 at the same time.

[0058] In some embodiments, the electronic device 110 may display an editing interface 300C as shown in Fig.

3C based on the user's triggering of the selection setting item, the text setting item, etc. and corresponding operations in the editing interface 300B of Fig. 3B.

[0059] In some embodiments, referring to Fig. 3C, the electronic device 110 may display the second image and the current cover content 355-1 of the first text material 350 in the cover setting area 310 in the editing interface 300C of Fig. 3C. At the same time, the electronic device 110 may display the presentation result 330-1 of the current cover content 355-1 in the corresponding interface in the first preview component 330.

[0060] In some embodiments, continuing to refer to Fig. 3C, the electronic device 110 may provide a completion control 340 in the editing interface 300C of Fig. 3C. Further, the electronic device 110 may generate the first cover based on the content currently displayed in the cover setting area 310 in response to the triggering of the completion control 340.

[0061] Continuing to refer to Fig. 2, at block 240, the electronic device 110 may generate a second cover corresponding to a second cover proportion among the plurality of cover proportions based at least in part on the generated first cover.

[0062] In some embodiments, the electronic device 110 may present a cover draft generated based on the first cover, where the cover draft corresponds to the second cover proportion. Additionally, the electronic device 110 may generate the second cover based on the editing on the cover draft.

[0063] In some embodiments, the electronic device 110 may further determine, based on a target image included in the first cover, a target image portion corresponding to the second cover proportion in the target image. Further, the electronic device 110 may generate the cover draft based on the target image portion.

[0064] In some embodiments, the target image may be a background image in the first cover, and the target image portion is a portion captured from the target image based on the second cover proportion. As an example, the electronic device 110 may capture a centered screenshot of the background image of the first cover based on the second cover proportion, so as to obtain the cover draft.

[0065] In some embodiments, the first cover, for example, may further include at least one material superimposed on the target image, such as the text material or the image material discussed above. Accordingly, in response to the captured target image portion being associated with a target material in the first cover, the electronic device 110 may further include at least a portion of the target material in the cover draft.

[0066] In some embodiments, continuing to refer to Fig. 3C, the electronic device 110 may provide a vertical cover control 345 in the editing interface 300C of Fig. 3C. As an example, the vertical cover control 345 may be associated with a second cover proportion (different from the first cover proportion) among the plurality of cover proportions. Further, the electronic device 110 may display an editing interface 300D as shown in Fig. 3D in response to the triggering of the vertical cover control 345. Taking Fig. 3D as an example, the electronic device 110 may continue to receive the user's settings for the vertical cover in the same editing component. In some embodiments, the electronic device 110 may also provide different editing components, for example.

[0067] In some embodiments, as shown in Fig. 3D, the electronic device 110 may display a cover draft 355-2 in the cover setting area 310 in the editing interface 300D. As an example, the cover draft 355-2 in the editing interface 300D is a portion captured from the current cover content 355-1 based on the second cover proportion. Additionally, as shown in Fig. 3D, the cover draft 255-1 may further include a portion of the first text material

350 included in the current cover content 355-1.

[0068] In some embodiments, the electronic device 110, for example, may also support automatically adjusting the material included in the first cover according to the second cover proportion. Specifically, the electronic device 110 may adjust at least one material in the first cover based on the second cover proportion, so that the cover draft includes the at least one adjusted material. As an example, when the first cover includes at least one material, in order to better adapt to the second cover proportion, while generating the cover draft, the electronic device 110 may adjust the size of the at least one material based on the second cover proportion, so that the at least one adjusted material may be completely presented in the cover draft in a suitable size. It should be understood that any other appropriate way may be adopted to adjust the material, for example, adjusting the display position, display angle, display style, etc. of the material.

[0069] In some embodiments, the electronic device 110 may further receive the user's editing on the cover draft. As an example, such editing may include, for example, but is not limited to: editing or replacing the image content in the cover draft; editing the first material in the cover draft; adding an additional second material to the cover draft. It should be understood that the first material here is the material derived from the first cover.

[0070] As an example, the electronic device 110 may receive the user's selection of the first material in the cover draft. Further, the electronic device 110 may receive the user's editing operation on the selected first material, and present the edited first material in the cover draft. For the specific process of material editing, reference may be made to the process of adding at least one material to the second image as described above, which will not be repeated here.

[0071] In some embodiments, the electronic device 110 may provide a base image reselecting component 360 in the editing interface 300D of Fig. 3D. Further, the electronic device 110 may receive the user's selection of another image among the plurality of media content images in response to the triggering of the base image reselecting component 360, and take the another image as the background image of the vertical cover. In addition, reference may be made to the above-described method for the image selection, which will not be repeated here.

[0072] In some embodiments, continuing to refer to Fig. 3D, the electronic device 110 may display a presentation result of the current cover content in the corresponding interface in the first preview component 330, such as the presentation result 330-2 shown in Fig. 3D. Additionally, such presentation result 330-2 may also be updated based on the editing on the current cover content.

[0073] In some embodiments, the electronic device 110 may provide a completion component 340 in the editing interface 300D of Fig. 3D. Further, the electronic device 110 may generate the second cover corresponding to the second cover proportion in response to the triggering of the completion component 340, and display a setting interface 300E as shown in Fig. 3E.

[0074] In some embodiments, the electronic device 110 may present the first cover in the setting interface in association with the first entry; or present the second cover in the setting interface in association with a second entry, wherein the second entry corresponds to the second cover proportion. For example, as shown in Fig. 3E, the electronic device 110 may display the plurality of generated covers at the plurality of entries. As an example, as shown in Fig. 3E, the electronic device 110 may display the corresponding covers that have been set at the horizontal cover entry 305-1 and the vertical cover entry 305-2, respectively.

[0075] In some embodiments, continuing to refer to Fig. 3E, the electronic device 110 may display a second preview component 365 in the setting interface 300E. The electronic device 110 may provide a plurality of switching entries corresponding to the plurality of cover proportions in the second preview component 365. For example, a horizontal cover switching entry 370-1 corresponding to the horizontal cover entry 305-1 and a vertical cover switching entry 370-2 corresponding to the vertical cover entry 305-2 may be provided.

[0076] Further, the electronic device 110 may present, using the second preview component 265, a presentation result of a third cover in a corresponding interface based on a selection of a target switching entry among the plurality of switching entries, wherein the third cover corresponds to the target switching entry. As an example, the electronic device 110 may present, using the second preview component 265, a presentation result of a cover associated with the horizontal cover switching entry 370-1 in the corresponding interface based on the selection of the horizontal cover switching entry 370-1. As an example, the corresponding interface may be an interface corresponding to the application 120 for displaying the media content.

[0077] In some embodiments, the setting interface presented by the electronic device 110 includes a posting interface of the media content. As an example, the electronic device 110 may display the posting interface and provide the cover setting entry discussed above in the posting interface, in response to a posting request for the media content.

[0078] Although the above describes the setting process of the plurality of covers in conjunction with generating the vertical cover based on the horizontal cover, the embodiments of the present disclosure may also assist in generating the horizontal cover based on the setting of the vertical cover by the user.

[0079] Further, after the media content completes the setting of the plurality of covers with different proportions, the embodiments of the present disclosure may further support correspondingly presenting the corresponding cover according to a type of a component that displays the media content. Specifically, if the media content is presented in a target component, the target component may present a target cover matching a proportion of the target component among the plurality of covers. For example, if the target component is a horizontal screen style preview component, the target component may display a horizontal cover of the media content; on the contrary, if the target component is a vertical screen style preview component, the target component may display a vertical cover of the media content.

[0080] In this way, the embodiments of the present disclosure may support high-quality cover presentation in different scenarios, thereby avoiding the problem of low quality of the cover presented by simple cropping or filling.

[0081] Based on the process described above, the embodiments of the present disclosure are capable of supporting the user to produce covers with various proportions for the media content, which may facilitate the media content to adapt to multi-scenario display, thereby improving the display effect of the media content.

Example Apparatus and Device

[0082] The embodiments of the present disclosure further provide corresponding apparatuses for implementing the above methods or processes. Fig. 4 shows a schematic structural block diagram of an example apparatus 400 for work playback according to some embodiments of the present disclosure. The apparatus 400 may be

implemented as or included in the electronic device 110. Each module/component in the apparatus 400 may be implemented by hardware, software, firmware, or any combination thereof.

[0083] As shown in Fig. 4, the apparatus 400 includes: a providing module 410 configured to provide, in a setting interface of a media content, a plurality of entries for setting a plurality of covers of the media content, the plurality of entries being associated with a plurality of cover proportions; a presenting module 420 configured to present an editing interface in response to a selection of a first entry among the plurality of entries, the first entry corresponding to a first cover proportion; a first generation module 430 configured to generate a first cover corresponding to the first cover proportion based on an editing operation in the editing interface; and a second generation module 440 configured to generate a second cover corresponding to a second cover proportion among the plurality of cover proportions based at least in part on the generated first cover.

[0084] In some embodiments, the providing module 410 is further configured to: in response to the media content being presented in a target component, control the target component to present a target cover matching a proportion of the target component among the plurality of covers.

[0085] In some embodiments, the first generation module 430 is further configured to: generating the first cover corresponding to the first cover proportion based on the editing operation in the editing interface includes: obtaining a first image; determining, based on the obtained first image, a second image matching the first cover proportion; and generating the first cover based on the second image, the first cover including the second image.

[0086] In some embodiments, the first generation module 430 is further configured to: receive a selection of the first image in the media content; or receive the first image uploaded or shot by the user.

[0087] In some embodiments, the first generation module 430 is further configured to: generating the first cover based on the second image includes: adding at least one material to the second image to generate the first cover, wherein the at least one material includes a text material and/or an image material.

[0088] In some embodiments, the second generation module 440 is further configured to: generating the second cover corresponding to the second cover proportion among the plurality of cover proportions based at least in part on the generated first cover includes: presenting a cover draft generated based on the first cover, the cover draft corresponding to the second cover proportion; and generating the second cover based on an editing on the cover draft.

[0089] In some embodiments, the second generation module 440 is further configured to: determine, based on a target image included in the first cover, a target image portion corresponding to the second cover proportion in the target image; and generate the cover draft based on the target image portion.

[0090] In some embodiments, the second generation module 440 is further configured to: generating the cover draft based on the target image portion includes: generating the cover draft in response to the target image portion being associated with a target material in the first cover, to make the cover draft includes at least a portion of the target material.

[0091] In some embodiments, the second generation module 440 is further configured to: generating the cover draft based on the target portion includes: adjusting, in response to the first cover including at least one material, the at least one material based on the second cover proportion, to make the cover draft include the at least one adjusted material.

[0092] In some embodiments, the second generation module 440 is further configured to: the editing on the cover draft includes at least one of: editing or replacing image content in the cover draft; editing the first material in the cover draft; adding an additional second material to the cover draft.

[0093] In some embodiments, the second generation module 440 is further configured to: presenting the cover draft generated based on the first cover includes: presenting the generated cover draft in the editing interface.

[0094] In some embodiments, the presenting module 420 is further configured to: present a first preview component in the editing interface, the first preview component displaying a presentation result of current cover content in the editing interface in a corresponding interface; and update the first preview component based on an editing on the current cover content.

[0095] In some embodiments, the providing module 410 is further configured to: present a second preview component in the setting interface, the second preview component including a plurality of switching entries corresponding to the plurality of cover proportions; and present, using the second preview component, a presentation result of a third cover in a corresponding interface based on a selection of a target switching entry among the plurality of switching entries, the third cover corresponding to the target switching entry.

[0096] In some embodiments, the providing module 410 is further configured to: providing, in the setting interface of the media content, the plurality of entries for setting the plurality of covers of the media content includes: providing, in response to a proportion of the media content satisfying a preset condition, the plurality of entries in the setting interface of the media content.

[0097] In some embodiments, the providing module 410 is further configured to: the setting interface includes a posting interface of the media content.

[0098] In some embodiments, the providing module 410 is further configured to: present the first cover in the setting interface in association with the first entry; or present the second cover in the setting interface in association with a second entry, the second entry corresponding to the second cover proportion.

[0099] The units included in the apparatus 400 may be implemented in various ways, including software, hardware, firmware, or any combination thereof. In some embodiments, one or more units may be implemented using software and/or firmware, such as machine-executable instructions stored on a storage medium. In addition to machine-executable instructions or as an alternative, some or all units in the apparatus 400 may be implemented at least partially by one or more hardware logic components. As an example, rather than a limitation, example types of hardware logic components that may be used include field programmable gate array (FPGA), application specific integrated circuit (ASIC), application specific standard product (ASSP), system on chip (SOC), complex programmable logic device (CPLD), and so on.

[0100] Fig. 5 shows a block diagram of an electronic device 500 with which one or more embodiments of the present disclosure may be implemented. It should be understood that the electronic device 500 shown in Fig. 5 is only illustrative and should not constitute any limitation on the functions and scope of the embodiments described herein. The electronic device 500 shown in Fig. 5 may be used to implement the electronic device 110 of Fig. 1.

[0101] As shown in Fig. 5, the electronic device 500 is in the form of a general-purpose electronic device. The components of the electronic device 500 may include but are not limited to one or more processing units or

processors 510, a memory 520, a storage device 730, one or more communication units 540, one or more input devices 550, and one or more output devices 560. The processor 510 may be an actual or virtual processor and may execute various processes based on the programs stored in the memory 520. In a multi-processor system, a plurality of processors execute computer-executable instructions in parallel to improve the parallel processing capability of the electronic device 500.

[0102] The electronic device 500 typically includes multiple computer storage medium. Such medium may be any available medium that is accessible to the electronic device 500, including but not limited to volatile and non-volatile medium, removable and non-removable medium. The memory 520 may be a volatile memory (for example, a register, a cache, a Random Access Memory (RAM)), a non-volatile memory (such as a Read-Only Memory (ROM), an Electrically Erasable Programmable Read-Only Memory (EEPROM), a flash memory), or any combination thereof. The storage device 530 may be any removable or non-removable medium, and may include a machine-readable medium such as a flash drive, a disk, or any other medium, which may be used to store information and/or data and may be accessed within the electronic device 500.

[0103] The electronic device 500 may further include additional removable/non-removable, volatile/non-volatile memory medium. Although not shown in Fig. 5, a disk driver for reading from or writing to a removable, non-volatile disk (such as a "floppy disk"), and an optical disk driver for reading from or writing to a removable, non-volatile optical disk may be provided. In these cases, each driver may be connected to the bus (not shown) by one or more data medium interfaces. The memory 520 may include a computer program product 525 having one or more program modules configured to perform various methods or acts of the various embodiments of the present disclosure.

[0104] The communication unit 540 implements communication with other electronic devices through a communication medium. Additionally, the functions of the components of the electronic device 500 may be implemented by a single computing cluster or multiple computing machines, which may communicate through communication connections. Therefore, the electronic device 500 may use a logical connection with one or more other servers, a network personal computer (PC) or another network node to operate in a networked environment.

[0105] The input device 550 may be one or more input devices, such as a mouse, a keyboard, a tracking ball, etc. The output device 560 may be one or more output devices, such as a display, a speaker, a printer, etc. The electronic device 500 may further communicate with one or more external devices (not shown) through the communication unit 540 as needed, the external devices such as a storage device, a display device, etc., communicate with one or more devices that enable the user to interact with the electronic device 500, or communicate with any devices (for example, a network card, a modem, etc.) that enable the electronic device 500 to communicate with one or more other electronic devices. Such communication may be performed via input/output (I/O) interfaces (not shown).

[0106] According to an example implementation of the present disclosure, there is provided a computer-readable storage medium having computer-executable instructions stored thereon, wherein the computer-executable instructions are executed by a processor to implement the method described above. According to an example implementation of the present disclosure, there is further provided a computer program product, the computer program product is tangibly stored on a non-transitory computer-readable medium and includes computer-

executable instructions, and the computer-executable instructions are executed by a processor to implement the method described above.

[0107] Various aspects of the present disclosure are described herein with reference to flowcharts and/or block diagrams of methods, apparatuses, devices and computer program products implemented according to the present disclosure. It should be understood that each block of the flowchart and/or block diagrams, and combinations of blocks in the flowchart and/or block diagrams, may be implemented by computer-readable program instructions.

[0108] These computer-readable program instructions may be provided to a processor of a general-purpose computer, a special-purpose computer, or other programmable data processing apparatus to produce a machine, such that these instructions, when executed by the processor of the computer or other programmable data processing apparatus, produce an apparatus for implementing the functions/acts specified in one or more blocks of the flowchart and/or block diagrams. These computer-readable program instructions may also be stored in a computer-readable storage medium, these instructions cause the computer, the programmable data processing apparatus, and/or other devices to work in a specific manner, and thus, the computer-readable medium storing the instructions includes a manufactured product, which includes instructions for implementing various aspects of the functions/acts specified in one or more blocks of the flowchart and/or block diagrams.

[0109] The computer-readable program instructions may be loaded onto a computer, another programmable data processing apparatus, or other devices, such that a series of operations and steps are performed on the computer, the another programmable data processing apparatus, or the other devices to generate a computer-implemented process, so that the instructions executed on the computer, the another programmable data processing apparatus, or the other devices implement the functions/acts specified in one or more blocks of the flowchart and/or block diagrams.

[0110] The flowchart and block diagrams in the drawings show the possibly implemented architectures, functions and operations of the system, method and computer program product according to multiple implementations of the present disclosure. In this regard, each block in the flowchart or block diagrams may represent a module, program segment, or a part of instructions, and the module, program segment, or the part of instructions contains one or more executable instructions for implementing the specified logical functions. 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 consecutive blocks may actually be performed substantially in parallel, or they may sometimes be performed in the reverse order, depending on the functions involved. It should also be noted that each block in the block diagrams and/or flowcharts, and combinations of the blocks in the block diagrams and/or flowcharts may be implemented by a special-purpose hardware-based system that perform specified functions or acts, or may be implemented by a combination of special-purpose hardware and computer instructions.

[0111] The implementations of the present disclosure have been described above, and the above description is illustrative, non-exhaustive, and not limited to the disclosed implementations. Many modifications and changes will be apparent to those of ordinary skill in the art without departing from the scope and spirit of the described implementations. The choice of terms used herein is intended to best explain the principles of each

implementation, the practical application or improvement of the technology in the market, or to enable other ordinary skilled in the art to understand the various implementations disclosed herein.

CLAIMS

1. A method for setting a cover, comprising:
 - providing, in a setting interface of a media content, a plurality of entries for setting a plurality of covers of the media content, the plurality of entries being associated with a plurality of cover proportions;
 - presenting an editing interface in response to a selection of a first entry among the plurality of entries, the first entry corresponding to a first cover proportion;
 - generating a first cover corresponding to the first cover proportion based on an editing operation in the editing interface; and
 - generating a second cover corresponding to a second cover proportion among the plurality of cover proportions based at least in part on the generated first cover.
2. The method of claim 1, further comprising:
 - controlling, in response to the media content being presented in a target component, the target component to present a target cover matching a proportion of the target component among the plurality of covers.
3. The method of claim 1, wherein generating the first cover corresponding to the first cover proportion based on the editing operation in the editing interface comprises:
 - obtaining a first image;
 - determining, based on the obtained first image, a second image matching the first cover proportion; and
 - generating the first cover based on the second image, wherein the first cover comprises the second image.
4. The method of claim 3, wherein obtaining the first image comprises:
 - receiving a selection of the first image in the media content; or
 - receiving the first image uploaded or shot by a user.
5. The method of claim 3, wherein generating the first cover based on the second image comprises:
 - adding at least one material to the second image to generate the first cover, wherein the at least one material comprises a text material and/or an image material.
6. The method of claim 1, wherein generating the second cover corresponding to the second cover proportion among the plurality of cover proportions based at least in part on the generated first cover comprises:
 - presenting a cover draft generated based on the first cover, the cover draft corresponding to the second cover proportion; and
 - generating the second cover based on an editing on the cover draft.
7. The method of claim 6, further comprising:
 - determining, based on a target image comprised in the first cover, a target image portion corresponding

to the second cover proportion in the target image; and
generating the cover draft based on the target image portion.

8. The method of claim 7, wherein generating the cover draft based on the target image portion comprises:
generating the cover draft in response to the target image portion being associated with a target material
in the first cover, to make the cover draft comprise at least a portion of the target material.

9. The method of claim 7, wherein generating the cover draft based on the target portion comprises:
adjusting, in response to the first cover comprising at least one material, the at least one material based
on the second cover proportion, to make the cover draft comprise the at least one adjusted material.

10. The method of claim 6, wherein the editing on the cover draft comprises at least one of:
editing or replacing image content in the cover draft;
editing a first material in the cover draft;
adding an additional second material to the cover draft.

11. The method of claim 6, wherein presenting the cover draft generated based on the first cover
comprises:
presenting the generated cover draft in the editing interface.

12. The method of claim 1, further comprising:
presenting a first preview component in the editing interface, the first preview component displaying a
presentation result of current cover content in the editing interface in a corresponding interface; and
updating the first preview component based on an editing on the current cover content.

13. The method of claim 1, further comprising:
presenting a second preview component in the setting interface, the second preview component
comprising a plurality of switching entries corresponding to the plurality of cover proportions; and
presenting, using the second preview component, a presentation result of a third cover in a corresponding
interface based on a selection of a target switching entry among the plurality of switching entries, the third cover
corresponding to the target switching entry.

14. The method of claim 1, wherein providing, in the setting interface of the media content, the plurality
of entries for setting the plurality of covers of the media content comprises:
providing, in response to a proportion of the media content satisfying a preset condition, the plurality of
entries in the setting interface of the media content.

15. The method of claim 1, wherein the setting interface comprises a posting interface of the media

content.

16. The method of claim 1, further comprising:

presenting the first cover in the setting interface in association with the first entry; or

presenting the second cover in the setting interface in association with a second entry, the second entry corresponding to the second cover proportion.

17. An apparatus for setting a cover, comprising:

a providing module configured to provide, in a setting interface of a media content, a plurality of entries for setting a plurality of covers of the media content, the plurality of entries being associated with a plurality of cover proportions;

a presenting module configured to present an editing interface in response to a selection of a first entry among the plurality of entries, the first entry corresponding to a first cover proportion;

a first generation module configured to generate a first cover corresponding to the first cover proportion based on an editing operation in the editing interface; and

a second generation module configured to generate a second cover corresponding to a second cover proportion among the plurality of cover proportions based at least in part on the generated first cover.

18. An electronic device, comprising:

at least one processor; and

at least one memory coupled to the at least one processor and storing instructions executable by the at least one processor, the instructions, when executed by the at least one processor, causing the electronic device to perform the method of any of claims 1 to 16.

19. A computer-readable storage medium having computer-executable instructions stored thereon, the computer-executable instructions, when executed by a processor, implementing the method of any of claims 1 to 16.

20. A computer program product tangibly stored in a computer storage medium and comprising computer-executable instructions which, when executed by a device, cause the device to perform the method of any of claims 1 to 16.