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(54) **APPLICATION INTERFACE PRESENTATION METHOD AND APPARATUS, AND ELECTRONIC DEVICE**

VERFAHREN UND VORRICHTUNG ZUR DARSTELLUNG EINER ANWENDUNGSSCHNITTSTELLE UND ELEKTRONISCHE VORRICHTUNG

PROCÉDÉ ET APPAREIL DE PRÉSENTATION D'INTERFACES D'APPLICATIONS ET DISPOSITIF ÉLECTRONIQUE

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Description

TECHNICAL FIELD

[0001] Embodiments of the present invention relate to communications technologies, and in particular, to a method and an apparatus for displaying an application interface, and an electronic device.

BACKGROUND

[0002] Because camera photographing quality and screen presentation quality of a mobile phone are increasingly higher, a user is more likely to use the mobile phone to photograph, and view and share photos, and therefore a camera and a photo gallery are more frequently used.

[0003] The camera and the photo gallery correlate with each other, that is, the two have a sequential order relationship in operations. In the prior art, operations of a user on a camera and a photo gallery are independent. A connection between the two modules lies in that the camera provides a tapping or sliding entry for entering the photo gallery, so as to view a photo photographed by the user. Therefore, only a function of viewing a photographed photo by the user is satisfied, flexibility of interaction between the modules is poor, and user experience is poor.

[0004] US 2010/248788 A1 disclose a method that can divide a screen into individual divided screen areas, comprising: display a functional view area App. A as to the function 'A' on the display unit, as illustrated in screen, the user generates an input signal, the mobile terminal can provide simultaneous presentation of two pieces of data related by an event history, the mobile terminal can simultaneously output two functional view areas App. C and App. A to the display unit. The mobile terminal can provide simultaneous presentation of two pieces of data related by an event history.

[0005] US 2013/342482 A1 disclose a method that displays a moveable partitioning graphic at a position corresponding to the touch and drag action and partitioning the displayed contents into first and second display regions when receiving a touch and drag action across the touch screen display.

[0006] US 2011/078624 A1 disclose a method that replace display of the first workspace view with concurrent display of the plurality of workspace views when detect a multi-finger gesture on the touch-sensitive surface.

[0007] US 2008/158189 A1 disclose a mobile terminal that includes a display unit, which displays a movable menu bar that partitions the first and second display regions.

SUMMARY

[0008] The invention is set out in the appended set of claims.

BRIEF DESCRIPTION OF DRAWINGS

[0009] To describe the technical solutions in the embodiments of the present invention or in the prior art more clearly, the following briefly introduces the accompanying drawings required for describing the embodiments or the prior art. Apparently, the accompanying drawings in the following description show merely some embodiments of the present invention, and a person of ordinary skill in the art may still derive other drawings from these accompanying drawings without creative efforts.

FIG. 1 is a schematic flowchart of embodiment 1 of a method for displaying an application interface according to the present invention;
FIG. 2 is an exemplary display diagram of an application interface of embodiment 2 of a method for displaying an application interface according to the present invention;
FIG. 3 is an exemplary display diagram of an application interface of embodiment 3 of a method for displaying an application interface according to the present invention;
FIG. 4 is an exemplary diagram of an interface corresponding to a photo gallery;
FIG. 5 is an exemplary diagram of an interface corresponding to a camera;
FIG. 6 is an exemplary diagram of an interface corresponding to a short message service;
FIG. 7 is an exemplary diagram of embedding contacts into a short message service message in embodiment 4 of a method for displaying an application interface according to the present invention;
FIG. 8 is an exemplary display diagram of an application interface of embodiment 4 of the method for displaying an application interface according to the present invention;
FIG. 9 is an exemplary diagram of an interface corresponding to contacts;
FIG. 10 is an exemplary diagram of other optional applications that correlate with contacts in embodiment 5 of a method for displaying an application interface according to the present invention;
FIG. 11 is an exemplary diagram of embedding a short message service message interface into a contact interface in embodiment 5 of the method for displaying an application interface according to the present invention;
FIG. 12 is an exemplary display diagram of an application interface of embodiment 5 of the method for displaying an application interface according to the present invention;
FIG. 13 is a schematic structural diagram of embodiment 1 of an apparatus for displaying an application interface according to the present invention; and
FIG. 14 is a schematic structural diagram of embodiment 1 of an electronic device according to the present invention.

DESCRIPTION OF EMBODIMENTS

[0010] The following clearly and completely describes the technical solutions in the embodiments of the present invention with reference to the accompanying drawings in the embodiments of the present invention. Apparently, the described embodiments are merely some but not all of the embodiments of the present invention. All other embodiments obtained by a person of ordinary skill in the art based on the embodiments of the present invention without creative efforts shall fall within the protection scope of the present invention.

[0011] According to embodiments of the present invention, to improve flexibility of interaction between applications installed in a device and therefore enhance user experience, another application interface is simultaneously presented on a currently opened application interface, which implements split-screen display of multiple application interfaces. To display interfaces of two applications, that is, a photo gallery and a camera in a device, the other module may be accessed at any time in the two applications; in addition, a split-screen display function of the camera and photo gallery interfaces is also provided, that is, a function of simultaneously performing photographing and picture-viewing operations. In addition, in any embodiment of the present invention, "first" and "second" are merely used to distinguish different applications for ease of description.

[0012] Technical solutions of the present invention are described in detail with reference to specific embodiments. The following several specific embodiments may be mutually combined, and for a same or similar concept or process, details may not be described again in some embodiments.

[0013] FIG. 1 is a schematic flowchart of embodiment 1 of a method for displaying an application interface according to the present invention. This embodiment of the present invention provides a method for displaying an application interface, and the method may be executed by using an apparatus for displaying an application interface, where the apparatus is integrated in an electronic device, and the electronic device may be any electronic device such as a personal computer (Personal Computer, PC for short), a notebook computer, a tablet computer, a personal digital assistant (Personal Digital Assistant, PDA for short), or a smartphone. As shown in FIG. 1, the method for displaying an application interface includes the following steps:

S101. When displaying an interface corresponding to a first application, the electronic device acquires a first input operation of a user.

[0014] The interface corresponding to the first application refers to an interface that is of the first application and displayed on the device; the first input operation may be directly input by the user, for example, a sliding operation, a tapping operation, a multi-touch operation, a button input, a set position input, a touch and hold input, or a voice input, and may also be a response that is made according to an action of the user, for example, a gravity sensing operation such as shaking.

[0015] For example, by using a gesture trigger (for example, sliding down from the top of a list) of the user, a framing interface of a camera is introduced into an interface corresponding to a photo gallery. In this scenario, the photo gallery is the first application, the camera is a second application, and the gesture trigger of the user is the acquired first input operation.

[0016] S102. Simultaneously display, according to preset correlation information when the foregoing first input operation is a first preset operation, the interface corresponding to the first application and an interface corresponding to a second application, where the correlation information is used to indicate that the second application is an application that correlates with the first application.

[0017] There are one or more second applications. Specifically, after S101 in which the first input operation that is input by the user is acquired, S102 in which an interface corresponding to an application is displayed according to the first input operation and the preset correlation information corresponds to three specific scenarios:

The first scenario: The interface corresponding to the first application keeps being presented.

[0018] The second scenario: The interface corresponding to the second application is presented.

[0019] The third scenario: The interface corresponding to the first application and the interface corresponding to the second application are simultaneously presented.

[0020] In addition, in this embodiment, there is a specific connection between the first application and the second application. That is, when using the first application, the user may associate a function of the second application. For example, for contacts and a call, a call and call records, photographing and a photo gallery, a short message service message and an input method, a photo gallery and prompt communication software, and a photo gallery and social networking application software, there is an extremely high probability that the user uses the applications together, and therefore, it is considered that the applications are correlated.

[0021] In addition, the application that correlates with the first application is preset, or is determined according to a history of using the first application and the second application by the user. For example, the electronic device records a quantity of times that when performing an operation on the interface corresponding to the first application, the user switches to the interface corresponding to the second application, and then switches back to the interface corresponding to the first application. If the quantity of times is greater than a preset value, for example, five times, the second application is automatically set to be an application correlated with the first application; or the user is prompted whether the user needs to set the second application as an application correlated with the first application, and after permission of the user is obtained, the second application is set as the applica-

tion correlated with the first application.

[0022] According to this embodiment of the present invention, on a currently opened application interface, an application presented on a screen is determined according to a first input operation of a user and preset correlation information, and an interface corresponding to the application is displayed, which implements a seamless connection between applications, and improves flexibility of interaction between applications installed in an electronic device. In addition, interfaces respectively corresponding to multiple applications (a first application and/or a second application) are simultaneously displayed on a display device, which may enhance user experience.

[0023] In the embodiment shown in FIG. 1, when the electronic device simultaneously displays, according to the preset correlation information, the interface corresponding to the first application and the interface corresponding to the second application, the method for displaying an application interface may further include: receiving a second input operation of the user for the interface corresponding to the second application, and transferring first data determined by the second application according to the second input operation to the first application; or receiving a third input operation of the user for the interface corresponding to the first application, and transferring second data determined by the first application according to the third input operation to the second application. This embodiment indicates that, when interfaces corresponding to multiple applications are simultaneously displayed, a further operation may be further performed on the applications, so as to distinguish multitask display of an Android operating system (Android) from that of an iPhone operating system (Iphone Operation System, IOS for short). In addition, data may be transferred between multiple applications that are simultaneously displayed, and there is a preset correlation relationship between the multiple applications that are simultaneously displayed, so as to distinguish from a case in which multiple applications are simultaneously displayed on the electronic device by using floating interfaces.

[0024] Optionally, after the transferring, by the second application, the first data to the first application according to the second input operation, the method for displaying an application interface may further include: displaying first information on the interface corresponding to the first application, where the first information is the first data or information related to the first data; or after the transferring, by the first application, the second data to the second application according to the third input operation, the method for displaying an application interface may further include: displaying second information on the interface corresponding to the second application, where the second information is the second data or information related to the second data.

[0025] On the basis of the foregoing embodiment, the method for displaying an application interface may further include: switching, according to the preset correlation information when the first input operation is a second preset operation, a currently displayed interface from the interface corresponding to the first application to the interface corresponding to the second application. This embodiment indicates that, when the first input operation is not the first preset operation, it is determined that the first input operation is the second preset operation, and the currently displayed interface is switched from the interface corresponding to the first application to the interface corresponding to the second application, which implements switching of application interfaces displayed on a display device, that is, switching from the interface corresponding to the first application to the interface corresponding to the second application.

[0026] Further, in the foregoing embodiment, the first input operation may be any one or more of a sliding operation, a tapping operation, a multi-touch operation, a button input, a set position input, a touch and hold input, a voice input, a gravity sensing operation, and the like. The following uses that the first input operation is a sliding operation and a scaling operation of an area between multiple touch points in an interface as an example to describe in detail how to determine and perform interface display according to the first input operation.

[0027] In one implementation manner, the sliding operation may include a first sliding operation, and the first input operation may be the first sliding operation. Then, the simultaneously displaying, according to preset correlation information when the first input operation is a first preset operation, the interface corresponding to the first application and an interface corresponding to a second application may include: when a sliding speed or sliding distance corresponding to the first sliding operation is less than a first preset value, simultaneously displaying, according to the preset correlation information, the interface corresponding to the first application and the interface corresponding to the second application; optionally, when the sliding speed or sliding distance corresponding to the first sliding operation is greater than or equal to the first preset value, switching, according to the preset correlation information, a currently displayed interface from the interface corresponding to the first application to the interface corresponding to the second application.

[0028] In another implementation manner, the sliding operation may include a second sliding operation, and the second preset operation may be the second sliding operation. Then, when the first input operation is the second preset operation, a currently displayed interface is switched, according to the preset correlation information, from the interface corresponding to the first application to the interface corresponding to the second application.

[0029] In still another implementation manner, the first input operation is the multi-touch operation, and the simultaneously displaying, according to preset correlation information when the first input operation is a first preset operation, the interface corresponding to the first application and an interface corresponding to a second appli-

cation may include: when a distance between touch points of the multiple touch points gradually decreases, and a decreased value of a distance between two touch points in the multiple touch points is greater than or equal to a first preset distance value, simultaneously displaying, according to the preset correlation information, the interface corresponding to the first application and the interface corresponding to the second application; or when a distance between touch points of the multiple touch points gradually increases, and an increased value of a distance between two touch points in the multiple touch points is greater than or equal to a second preset distance value, simultaneously displaying, according to the preset correlation information, the interface corresponding to the first application and the interface corresponding to the second application.

[0030] In the foregoing embodiment of the present invention, for simultaneously displaying the interface corresponding to the first application and the interface corresponding to the second application, a person skilled in the art may understand it as: displaying the interface corresponding to the first application and the interface corresponding to the second application on a display device in a split-screen manner. Split screens of the interface corresponding to the first application and the interface corresponding to the second application on the display device (for example, a screen) are in any ratio. As shown in FIG. 2 and FIG. 3, a photo gallery is used as the first application, and a camera is used as the second application. A split-screen ratio between interfaces corresponding to the two applications on a screen is variable, and a user may set the ratio according to personal preference in real time.

[0031] More specifically, in an interface corresponding to the photo gallery (the first application) shown in FIG. 4, a sliding-down operation (the first sliding operation) is detected; when a sliding-down speed corresponding to the sliding-down operation is less than the first preset value, the interface corresponding to the photo gallery and an interface corresponding to the camera (the second application) are simultaneously displayed according to preset correlation information, and the interface corresponding to the photo gallery and the interface corresponding to the camera are presented in a split-screen manner, as shown in FIG. 2 or FIG. 3. In addition, when a user photographs on a framing interface of the camera, a photo may be fed back in real time in a photo gallery preview area at the bottom, and the user is allowed to tap a picture in the photo gallery to view a big picture. If a sliding-down speed corresponding to the sliding-down operation is greater than or equal to the first preset value, it is determined that the first input operation is the second preset operation, and a currently displayed interface is switched, according to the preset correlation information, from the interface corresponding to the photo gallery to the interface corresponding to the camera, and the interface corresponding to the camera is presented, as shown in FIG. 5. A size of the interface corresponding to the camera on the screen may determine a size of a photographed picture. In this embodiment, the user may access the camera interface by means of an operation of sliding up or down on the photo gallery interface, and perform a corresponding photographing function. Similarly, the user may access the photo gallery interface by means of an operation of sliding up or down on the camera interface, and perform a corresponding picture-viewing function. Full integration of the two applications, that is, the camera and the photo gallery, implements overall seamless connection experience for the user. Simultaneously displaying the photo gallery interface and a regional photographing interface may implement that the user quickly photographs or shoots, and experiences an effect that what you see is what you get in the photo gallery; and functions of viewing a picture in the photo gallery and regional photographing are implemented by sliding on the camera interface. Entering different photo gallery interfaces may be triggered by performing different sliding operations on the camera interface; for example, accessing a photo gallery interface in a full-screen picture mode may be triggered by performing a sliding-left operation on the camera interface, and accessing the regional photographing interface or the photo gallery interface may be triggered by performing a sliding-up operation on the camera interface.

[0032] In the interface corresponding to the photo gallery shown in FIG. 4, a pulling-down operation (the first sliding operation) is detected. If a sliding distance corresponding to the pulling-down operation is less than the first preset value, the interface corresponding to the photo gallery and the interface corresponding to the camera are simultaneously displayed according to the preset correlation information, and the interface corresponding to the photo gallery and the interface corresponding to the camera are presented in a split-screen manner, as shown in FIG. 2 or FIG. 3. If a sliding-down speed corresponding to the sliding-down operation is greater than or equal to the first preset value, a currently displayed interface is switched, according to the preset correlation information, from the interface corresponding to the photo gallery application to the interface corresponding to the camera, and the interface corresponding to the camera is presented, as shown in FIG. 5. Likewise, the user may also slide up to return to an interface on which photographing and the photo gallery coexist from a full-screen framing interface of the camera, which is merely used as an example for description, and another scenario may be analogized according to this.

[0033] On the basis of the foregoing embodiment, a same operation manner may be extended to another application scenario, for example, a short message service message and contacts, a browser and favorites, dials and contacts, or call records and contacts. In an application scenario of the short message service message and contacts, the user may embed contacts (as shown in FIG. 7) into an interface of creating a short message service message (as shown in FIG. 6) by pulling down

the interface, and a selected contact may be directly added into a recipient area (as shown in FIG. 8), and so on, which are not described herein again.

[0034] Optionally, there are multiple second applications, and S102, that is, the simultaneously displaying, according to preset correlation information when the first input operation is a first preset operation, the interface corresponding to the first application and an interface corresponding to a second application may specifically include: when the first input operation is the first preset operation, separately displaying, according to the preset correlation information and on the interface corresponding to the first application, an identifier corresponding to each second application in the multiple second applications; receiving an operation of selecting, by the user, one or more identifiers from the multiple second applications; and using one or more applications selected by the operation as applications to be displayed in a split-screen manner with the first application, and simultaneously displaying the interface corresponding to the first application and an interface corresponding to an application identified by the foregoing one or more identifiers. The second application that correlates with the first application is preset, or is determined according to a history of using the first application and the second application by the user.

[0035] In this embodiment, the first application correlates with multiple second applications. For example, when pulling down in the interface corresponding to the first application, second applications that need to be correlated may be selected; and after being selected, the second applications are simultaneously displayed with the interface corresponding to the first application. Specifically, as shown in FIG. 9 to FIG. 12, FIG. 9 shows an interface corresponding to contacts (that is, the first application). FIG. 10 shows other optional applications (that is, the second applications) that correlate with the contacts, and examples herein are short message services messages, emails, and call records. As shown in FIG. 10, when a device that displays the contact interface shown in FIG. 9 receives the first input operation, a second application that correlates with the contact application is displayed.

[0036] FIG. 11 is an exemplary diagram of simultaneously displaying a contact interface and a short message service message interface; FIG. 12 shows that a contact name in the contact interface is selected to be added into a recipient area shown in FIG. 11, which implements integration of the contact interface and the short message service message interface.

[0037] FIG. 13 is a schematic structural diagram of embodiment 1 of an apparatus for displaying an application interface according to the present invention. This embodiment of the present invention provides an apparatus for displaying an application interface, and the apparatus is integrated in an electronic device, where the electronic device may be any electronic device such as a PC, a notebook computer, a tablet computer, a PDA, or a smartphone. As shown in FIG. 13, the apparatus 100 for displaying an application interface includes an acquiring module 10, a processing module 20, and a display module 30.

[0038] The display module 30 is configured to display an interface corresponding to a first application; the acquiring module 10 is configured to acquire a first input operation of a user when the display module 30 displays the interface corresponding to the first application; and the processing module 20 includes a first processing unit 21, where the first processing unit 21 is configured to instruct, according to preset correlation information when the first input operation acquired by the acquiring module 10 is a first preset operation, the display module 30 to simultaneously display the interface corresponding to the first application and an interface corresponding to a second application, and the correlation information is used to indicate that the second application is an application that correlates with the first application.

[0039] For example, in this embodiment of the present invention, the acquiring module 10 may be a touchscreen of an electronic device, and the touchscreen can detect sliding and tapping actions applied thereto; the processing module 20 converts the foregoing sliding and tapping actions into corresponding digital signals, and provides the digital signals to an application (for example, the first application and/or the second application), so that the application implements a corresponding function. In addition, the processing module may further detect a direction and a speed of a sliding action, and return specific values corresponding to the direction and the speed to the application, so that the application performs different interface processing.

[0040] In addition, an electronic device that integrates the apparatus 100 for displaying an application interface includes a storage module, and the storage module is configured to store current applications such as a camera and a photo gallery, and display states of interfaces of the current applications, so that a current state may further be restored in a case in which display of an application interface is interrupted.

[0041] The apparatus for displaying an application interface in this embodiment of the present invention may implement the technical solution in the method embodiment shown in FIG. 1, and implementation principles and technical effects of the apparatus are similar and are not described herein again.

[0042] In the foregoing embodiment, the acquiring module 10 may be further configured to, when the display module 30 simultaneously displays the interface corresponding to the first application and the interface corresponding to the second application, receive a second input operation of the user for the interface corresponding to the second application. In this case, the first processing unit 21 may be further configured to transfer first data determined by the second application according to the second input operation to the first application.

[0043] Optionally, the acquiring module 10 may be further configured to, when the display module 30 simulta-

neously displays the interface corresponding to the first application and the interface corresponding to the second application, receive a third input operation of the user for the interface corresponding to the first application. In this scenario, the first processing unit 21 may be further configured to transfer second data determined by the first application according to the third input operation to the second application.

[0044] Further, the processing module 20 may further include a second processing unit. The second processing unit may be configured to, after the first processing unit 21 transfers the first data determined by the second application according to the second input operation to the first application, instruct the display module 30 to display first information on the interface corresponding to the first application, where the first information is the first data or information related to the first data.

[0045] The processing module 20 may further include a third processing unit. The third processing unit is configured to, after the first processing unit 21 transfers the second data determined by the first application according to the third input operation to the second application, instruct the display module 30 to display second information on the interface corresponding to the second application, where the second information is the second data or information related to the second data.

[0046] On the basis of the above, the processing module 20 may further include a fourth processing unit. The fourth processing unit is configured to instruct, according to the preset correlation information when the first input operation is a second preset operation, the display module 30 to switch a currently displayed interface from the interface corresponding to the first application to the interface corresponding to the second application.

[0047] In any embodiment of the present invention, the first input operation may be any one or more of the following operations: a sliding operation, a tapping operation, a multi-touch operation, a button input, a set position input, a touch and hold input, a voice input, a gravity sensing operation, and the like.

[0048] In one implementation manner, the first input operation is a first sliding operation, and the first processing unit 21 may be specifically configured to: when a sliding speed or sliding distance corresponding to the first sliding operation is less than a first preset value, instruct, according to the preset correlation information, the display module 30 to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application.

[0049] In another implementation manner, the sliding operation may include a second sliding operation, and the second preset operation may be the second sliding operation. Then, the first processing unit 21 may be specifically configured to instruct, according to the preset correlation information when the first input operation is the second preset operation, the display module 30 to switch a currently displayed interface from the interface corresponding to the first application to the interface corresponding to the second application.

[0050] In still another implementation manner, the first input operation is the multi-touch operation, and the first processing unit 21 may be specifically configured to: when a distance between touch points of the multiple touch points gradually decreases, and a decreased value of a distance between two touch points in the multiple touch points is greater than or equal to a first preset distance value, instruct, according to the preset correlation information, the display module 30 to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application; or when a distance between touch points of the multiple touch points gradually increases, and an increased value of a distance between two touch points in the multiple touch points is greater than or equal to a second preset distance value, instruct, according to the preset correlation information, the display module 30 to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application.

[0051] Furthermore, there are multiple second applications, and the first processing unit 21 may be further configured to: instruct, according to the preset correlation information when the first input operation is the first preset operation, the display module 30 to separately display, on the interface corresponding to the first application, an identifier corresponding to each second application in the multiple second applications; and after the acquiring module 10 receives an operation of selecting, by the user, one or more identifiers from the multiple second applications, instruct the display module 30 to simultaneously display the interface corresponding to the first application and an interface corresponding to an application of the one or more identifiers. The second application that correlates with the first application is preset, or is determined according to a history of using the first application and the second application by the user; or may also be determined in another manner, which is not described herein again.

[0052] FIG. 14 is a schematic structural diagram of embodiment 1 of an electronic device according to the present invention. As shown in FIG. 14, an electronic device 200 includes components such as an output device 40, an input device 50, a processor 60, a storage device 70, and power source 80. These components perform communication by using one or more buses. A person skilled in the art may understand that the structure of the electronic device 200 shown in the figure does not constitute a limitation on the present invention. The structure may not only be a bus structure, or may be a star structure, or may further include more or fewer components than those shown in the figure, or combine some parts, or have different parts arrangements. In this embodiment of the present invention, the electronic device 200 may be any mobile or portable electronic device, and includes but is not limited to a mobile phone, a mobile computer, a tablet computer, a PDA, a media player, a

smart television, a combination of the foregoing two or more items, and the like.

[0053] When a user uses the electronic device 200, the input device 50 receives information or a user input; the storage device 70 stores corresponding code, and configuration data or user data related to a processing process; and the processor 60 runs the corresponding code, and processes received information, so as to generate and output a corresponding interface and data, which are finally presented to the user by the output device 40.

[0054] Specifically, the output device 40 is configured to display an interface corresponding to a first application; the input device 50 is configured to acquire a first input operation of a user when the output device 40 displays the interface corresponding to the first application; and the processor 60 is configured to instruct, according to preset correlation information when the first input operation is a first preset operation, the output device 40 to simultaneously display the interface corresponding to the first application and an interface corresponding to a second application, where the correlation information is used to indicate that the second application is an application that correlates with the first application.

[0055] It should be noted that, the input device 50 is configured to implement interaction between the user and the electronic device 200 and/or input of information into the electronic device 200. For example, the input device 50 may receive digit or character information that is entered by the user, so as to generate a signal input related to user setting or function control. In a specific embodiment of the present invention, the input device 50 may be a touch panel, or may be another human-machine interaction interface, for example, a substantive input key and a microphone; or may be another apparatus for acquiring external information, for example, a camera. The touch panel, which is also referred to as a touchscreen or a touchscreen, may collect an operation action of touching or approaching, for example, an operation action performed by the user on the touch panel or at a position close to the touch panel by using any proper object or accessory such as a finger or a stylus, and a corresponding connecting apparatus is driven according to a preset program. Optionally, the touch panel may include two parts: a touch detection apparatus and a touch controller. The touch detection apparatus detects a touch operation of the user, converts the detected touch operation into an electrical signal, and transmits the electrical signal to the touch controller; the touch controller receives the electrical signal from the touch detection apparatus, converts the electrical signal into touch point coordinates, and then transmits the touch point coordinates to the processor 60. The touch controller may further receive and run a command sent from the processor 60. In addition, the touch panel may be implemented in multiple types, such as a resistive type, a capacitive type, an infrared (Infrared) ray, and a surface acoustic wave. In another embodiment of the present invention, the substantive input key used by the input device 50 may include but is not limited to one or more of a physical keyboard, a functional key (such as a volume control key or a power key), a trackball, a mouse, a joystick, and the like. An input device 50 in a form of a microphone may collect a voice that is input by the user or an environment, and convert the voice into a command that is in a form of an electric signal and may be run by the processor 60.

[0056] In other embodiments of the present invention, the input device 50 may also be a sensing component in various types, for example, a Hall component, which is configured to detect a physical quantity of the electronic device, such as a force, a torque, a pressure, a stress, a position, a displacement, a speed, acceleration, an angle, an angular velocity, a quantity of revolutions, a rotational speed, and a time at which a working state changes, and converts the physical quantity into an electric quantity to perform detection and control. Other sensing components may further include a gravity sensor, a triaxis accelerometer, a gyroscope, or the like.

[0057] The processor 60 is a control center of the electronic device 200 and is connected to various parts of the entire electronic device 200 by using various interfaces and lines; implements various functions of the electronic device 200 and/or processes data by running or executing a software program and/or module stored in the storage device 70 and invoking data stored in the storage device 70. The processor 60 may be comprised of an integrated circuit (Integrated Circuit, IC for short), for example, may be comprised of a single packaged IC, and may also be comprised of multiple packaged ICs that are connected and with a same function or different functions. For example, the processor 60 may include only a central processing unit (Central Processing Unit, CPU for short), or may be a combination of a GPU, a digital signal processor (Digital Signal Processor, DSP for short), and a control chip (for example, a baseband chip) in a communications unit. In this embodiment of the present invention, the CPU may be a single computing core, or may include multiple computing cores.

[0058] The output device 40 includes but is not limited to an image output device and a sound output device. The image output device is configured to output a character, a picture, and/or a video. The image output device may include a display panel, for example, a display panel configured in a form of a liquid crystal display (Liquid Crystal Display, LCD for short), an organic light-emitting diode (Organic Light-Emitting Diode, OLED for short), a field emission display (field emission display, FED for short), and the like; or the image output device may include a reflective display, for example, an electrophoretic (electrophoretic) display or a display using an interferometric modulation of light (Interferometric Modulation of Light) technology. The image output device may include a single display or multiple displays in different sizes. In a specific embodiment of the present invention, the touch panel used by the foregoing input device 50 may also be used as the display panel of the output device 40. For

example, after detecting a gesture operation of touching or approaching on the touch panel, the touch panel transmits the gesture operation to the processor 60 to determine a type of a touch event, and then the processor 60 provides a corresponding visual output on the display panel according to the type of the touch event. In FIG. 14, though the input device 50 and the output device 40 are used as two independent parts to implement input and output functions of the electronic device 200, in some embodiments, the touch panel and the display panel may be integrated to implement the input and output functions of the electronic device. For example, the image output device may display various graphical user interfaces (Graphical User Interface, GUI for short), so as to use the graphical user interfaces as virtual control components, and the graphical user interfaces include but are not limited to a window, a scrollbar, an icon, and a clipboard, so that a user operates in a touch manner.

[0059] In a specific embodiment of the present invention, the image output device includes a filter and an amplifier that are configured to filter and amplify a video that is output by the processor 60. An audio output device includes a digital analog converter, which is configured to convert an audio signal that is output by the processor 60 from a digital format to an analog format.

[0060] The storage device 70 may be configured to store a software program and a module, and the processor 60 executes various functional applications of the electronic device 200 and implements data processing by running the software program and the module that are stored in the storage device 70. The storage device 70 mainly includes a program storage area and a data storage area. The program storage area may store an operating system, and an application program such as a sound playing program or an image playing program that is required by at least one function; and the data storage area may store data (such as audio data or a phone book) that is created according to use of the electronic device 200, and the like. In a specific embodiment of the present invention, the storage device 70 may include a volatile memory, for example, a nonvolatile dynamic random access memory (Nonvolatile Random Access Memory, NVRAM for short), a phase change random access memory (Phase Change RAM, PRAM for short), or a magnetoresistive random access memory (Magetoresistive RAM, MRAM for short); and may further include a nonvolatile memory, for example, at least one disk storage component, an electrically erasable programmable read-only memory (Electrically Erasable Programmable Read-Only Memory, EEPROM for short), or a flash memory component such as an NOR flash memory (NOR flash memory) or an NAND flash memory (NAND flash memory). The non-volatile memory stores an operating system and an application program that are executed by the processor 60. The processor 60 loads, from the nonvolatile memory, a running program and data to a memory, and stores digital content in a large number of storage apparatuses. The operating system includes various components and/or drivers that are configured to control and manage regular system tasks such as memory management, control of the storage device 70, and power management, and facilitate communications between various software and hardware. In this embodiment of the present invention, the operating system may be an Android operating system of the Google company, an iOS operating system developed by the Apple company, a Windows operating system developed by the Microsoft company, or the like; or an embedded operating system such as Vxworks.

[0061] The application program includes any application installed on the electronic device 200, and includes but is not limited to a browser, an email, an instant messaging service, word processing, keyboard virtualization, a window widget (Widget), encryption, digital rights management, voice recognition, voice duplication, positioning (such as a function provided by the Global Positioning System), music playback, and the like.

[0062] The power source 80 is configured to supply power to various parts of the electronic device 200 to maintain their running. Generally, the power source 80 may be a built-in battery, for example, a common lithium-ion battery or a nickel-hydride battery; or may include an external power source that directly supplies power to the electronic device, for example, an AC adapter. In some embodiments of the present invention, the power source 80 may be defined in a wider scope; for example, may further include a power management system, a charging system, a power failure detection circuit, a power converter or inverter, a power status indicator (such as a light emitting diode), and any other components related to power generation, management, and distribution of the electronic device 200.

[0063] The electronic device in this embodiment of the present invention may execute the technical solution of the method embodiment shown in FIG. 1. The implementation principles and technical effects are similar, and are not described herein again.

[0064] It should be noted that, there is at least one second application; in addition, a first switching operation may be any one or more of the following operations: a sliding operation, a tapping operation, a multi-touch operation, a button input, a set position input, a touch and hold input, a voice input, and a gravity sensing operation.

[0065] In the foregoing embodiment, the input device 50 may be further configured to, when the output device 40 simultaneously displays the interface corresponding to the first application and the interface corresponding to the second application, receive a second input operation of the user for the interface corresponding to the second application. Optionally, the processor 60 may be further configured to transfer first data determined by the second application according to the second input operation to the first application.

[0066] In the foregoing embodiment, the input device 50 may be further configured to, when the output device 40 simultaneously displays the interface corresponding

to the first application and the interface corresponding to the second application, receive a third input operation of the user for the interface corresponding to the first application. Optionally, the processor 60 may be further configured to transfer second data determined by the first application according to the third input operation to the second application.

[0067] On the basis of the foregoing embodiment, in a specific implementation manner, the processor 60 may be further configured to: after transferring the first data determined by the second application according to the second input operation to the first application, instruct the output device 40 to display first information on the interface corresponding to the first application, where the first information is the first data or information related to the first data.

[0068] In another specific implementation manner, the processor 60 may be further configured to: after transferring the second data determined by the first application according to the third input operation to the second application, instruct the output device 40 to display second information on the interface corresponding to the second application, where the second information is the second data or information related to the second data.

[0069] Further, the processor 60 may be further configured to instruct, according to the preset correlation information when the first input operation is a second preset operation, the output device 40 to switch a currently displayed interface from the interface corresponding to the first application to the interface corresponding to the second application.

[0070] In a specific implementation manner, the first input operation is a first sliding operation; and instructing, by the processor 60 according to the preset correlation information when the first input operation is the first preset operation, the output device 40 to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application is specifically: when a sliding speed or sliding distance corresponding to the first sliding operation is less than a first preset value, the processor 60 instructs, according to the preset correlation information, the output device 40 to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application.

[0071] In another specific implementation manner, the sliding operation may include a second sliding operation, and the second preset operation may be the second sliding operation; and instructing, by the processor 60 according to the preset correlation information when the first input operation is the second preset operation, the output device 40 to switch a currently displayed interface from the interface corresponding to the first application to the interface corresponding to the second application is specifically: the processor 60 instructs, according to the preset correlation information when the first input operation is the second preset operation, the output device 40 to switch the currently displayed interface from the interface corresponding to the first application to the interface corresponding to the second application.

[0072] In still another specific implementation manner, the first input operation is the multi-touch operation; and instructing, by the processor 60 according to the preset correlation information when the first input operation is the first preset operation, the output device 40 to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application is specifically: when a distance between touch points of the multiple touch points gradually decreases, and a decreased value of a distance between two touch points in the multiple touch points is greater than or equal to a first preset distance value, the processor 60 instructs, according to the preset correlation information, the output device 40 to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application; or when a distance between touch points of the multiple touch points gradually increases, and an increased value of a distance between two touch points in the multiple touch points is greater than or equal to a second preset distance value, instructing, by the processor 60 according to the preset correlation information, the output device 40 to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application.

[0073] In the foregoing embodiment, there may be multiple second applications; and instructing, by the processor 60 according to the preset correlation information when the first input operation is the first preset operation, the output device 40 to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application is specifically: the processor 60 instructs, according to the preset correlation information when the first input operation is the first preset operation, the output device 40 to separately display, on the interface corresponding to the first application, an identifier corresponding to each second application in the multiple second applications; and after the input device 50 receives an operation of selecting, by the user, one or more identifiers from the multiple second applications, the processor 60 instructs the output device 40 to simultaneously display the interface corresponding to the first application and an interface corresponding to an application of the one or more identifiers.

[0074] The second application that correlates with the first application may be preset, or may be determined according to a history of using the first application and the second application by the user, or determined in another manner.

[0075] Persons of ordinary skill in the art may understand that all or some of the steps of the method embodiments may be implemented by a program instructing relevant hardware. The program may be stored in a computer-readable storage medium. When the program runs, the steps of the method embodiments are performed. The foregoing storage medium includes: any me-

dium that can store program code, such as a ROM, a RAM, a magnetic disc, or an optical disc.

[0076] Finally, it should be noted that the foregoing embodiments are merely intended for describing the technical solutions of the present invention, but not for limiting the present invention. Although the present invention is described in detail with reference to the foregoing embodiments, persons of ordinary skill in the art should understand that they may still make modifications to the technical solutions described in the foregoing embodiments or make equivalent replacements to some or all technical features thereof, without departing from the scope of the technical solutions of the embodiments of the present invention.

Claims

1. A method for displaying an application interface, comprising:

acquiring (S101), by an electronic device when displaying an interface corresponding to a first application, a first input operation of a user; and

simultaneously displaying (S102), according to preset correlation information when the first input operation is a first preset operation, the interface corresponding to the first application and an interface corresponding to a second application, wherein the correlation information is used to indicate that the second application is an application that correlates with the first application; wherein the first application is a photo gallery, and wherein the second application is a camera; the method being **characterised in that** a size of the interface corresponding to the camera determines a size of a photographed picture.

2. The method according to claim 1, wherein when the simultaneously displaying, according to preset correlation information, the interface corresponding to the first application and an interface corresponding to a second application, the method further comprises:

receiving a second input operation of the user for the interface corresponding to the second application; and

transferring first data determined by the second application according to the second input operation to the first application; or

receiving a third input operation of the user for the interface corresponding to the first application; and

transferring second data determined by the first application according to the third input operation to the second application.

3. The method according to claim 2, wherein:

after the transferring, by the second application, the first data to the first application according to the second input operation, the method further comprises: displaying first information on the interface corresponding to the first application, wherein the first information is the first data or information related to the first data; or

after the transferring, by the first application, the second data to the second application according to the third input operation, the method further comprises: displaying second information on the interface corresponding to the second application, wherein the second information is the second data or information related to the second data.

4. The method according to claim 1 or 2 or 3, further comprising:

switching, according to the preset correlation information when the first input operation is a second preset operation, a currently displayed interface from the interface corresponding to the first application to the interface corresponding to the second application.

5. The method according to any one of claims 1 to 4, wherein the first input operation is any one or more of the following operations:

a sliding operation, a tapping operation, a multi-touch operation, a button input, a set position input, a touch and hold input, a voice input, and a gravity sensing operation.

6. The method according to claim 5, wherein the first input operation is a first sliding operation, and the simultaneously displaying, according to preset correlation information when the first input operation is a first preset operation, the interface corresponding to the first application and an interface corresponding to a second application comprises:

when a sliding speed or sliding distance corresponding to the first sliding operation is less than a first preset value, simultaneously displaying, according to the preset correlation information, the interface corresponding to the first application and the interface corresponding to the second application.

7. The method according to claim 5, wherein the first input operation is the multi-touch operation, and the simultaneously displaying, according to preset correlation information when the first input operation is a first preset operation, the interface corresponding to the first application and an interface corresponding to a second application comprises:

when a distance between touch points of multi-

ple touch points gradually decreases, and a decreased value of a distance between two touch points in the multiple touch points is greater than or equal to a first preset distance value, simultaneously displaying, according to the preset correlation information, the interface corresponding to the first application and the interface corresponding to the second application; or

when a distance between touch points of the multiple touch points gradually increases, and an increased value of a distance between two touch points in the multiple touch points is greater than or equal to a second preset distance value, simultaneously displaying, according to the preset correlation information, the interface corresponding to the first application and the interface corresponding to the second application.

8. The method according to any one of claims 1 to 7, wherein there are multiple second applications, and the simultaneously displaying, according to preset correlation information when the first input operation is a first preset operation, the interface corresponding to the first application and an interface corresponding to a second application specifically comprises:

when the first input operation is the first preset operation, separately displaying, according to the preset correlation information and on the interface corresponding to the first application, an identifier corresponding to each second application in the multiple second applications;

receiving an operation of selecting, by the user, one or more identifiers from identifiers corresponding to the multiple second applications; and

simultaneously displaying the interface corresponding to the first application and an interface corresponding to an application identified by the one or more identifiers.

9. The method according to any one of claims 1 to 8, wherein the application that correlates with the first application is preset, or is determined according to a history of using the first application and the second application by the user.

10. An electronic device, comprising:

an output device (40), configured to display an interface corresponding to a first application;

an input device (50), configured to acquire a first input operation of a user when the output device displays the interface corresponding to the first application; and

a processor (60), configured to instruct, according to preset correlation information when the first input operation is a first preset operation, the output device to simultaneously display the interface corresponding to the first application and an interface corresponding to a second application, wherein the correlation information is used to indicate that the second application is an application that correlates with the first application;

wherein the first application is a photo gallery, and wherein the second application is a camera;

the electronic device being **characterised in that** a size of the interface corresponding to the camera determines a size of a photographed picture.

11. The electronic device according to claim 10, wherein:

the input device is further configured to, when the output device simultaneously displays the interface corresponding to the first application and the interface corresponding to the second application, receive a second input operation of the user for the interface corresponding to the second application; and

the processor is further configured to transfer first data determined by the second application according to the second input operation to the first application.

12. The electronic device according to claim 10, wherein:

the input device is further configured to, when the output device simultaneously displays the interface corresponding to the first application and the interface corresponding to the second application, receive a third input operation of the user for the interface corresponding to the first application; and

the processor is further configured to transfer second data determined by the first application according to the third input operation to the second application.

13. The electronic device according to claim 11, wherein the processor is further configured to:

after transferring, by the second application, the first data to the first application according to the second input operation, instruct the output device to display first information on the interface corresponding to the first application, wherein the first information is the first data or information related to the first data.

14. The electronic device according to claim 12, wherein the processor is further configured to:

after transferring, by the first application, the second data to the second application according to the third input operation, instruct the output device to display second information on the interface corresponding

to the second application, wherein the second information is the second data or information related to the second data.

15. The electronic device according to any one of claims 10 to 14, wherein the processor is further configured to:
instruct, according to the preset correlation information when the first input operation is a second preset operation, the output device to switch a currently displayed interface from the interface corresponding to the first application to the interface corresponding to the second application.

16. The electronic device according to any one of claims 10 to 15, wherein the first input operation is any one or more of the following operations:
a sliding operation, a tapping operation, a multi-touch operation, a button input, a set position input, a touch and hold input, a voice input, and a gravity sensing operation.

17. The electronic device according to claim 16, wherein the first input operation is a first sliding operation; and instructing, by the processor according to the preset correlation information when the first input operation is the first preset operation, the output device to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application is specifically:
when a sliding speed or sliding distance corresponding to the first sliding operation is less than a first preset value, the processor instructs, according to the preset correlation information, the output device to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application.

18. The electronic device according to claim 16, wherein the first input operation is the multi-touch operation; and instructing, by the processor according to the preset correlation information when the first input operation is the first preset operation, the output device to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application is specifically:

when a distance between touch points of multiple touch points gradually decreases, and a decreased value of a distance between two touch points in the multiple touch points is greater than or equal to a first preset distance value, the processor instructs, according to the preset correlation information, the output device to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application; or
when a distance between touch points of the multiple touch points gradually increases, and an increased value of a distance between two touch points in the multiple touch points is greater than or equal to a second preset distance value, the processor instructs, according to the preset correlation information, the output device to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application.

19. The electronic device according to any one of claims 10 to 18, wherein there are multiple second applications; and instructing, by the processor according to the preset correlation information when the first input operation is the first preset operation, the output device to simultaneously display the interface corresponding to the first application and the interface corresponding to the second application is specifically:

the processor instructs, according to the preset correlation information when the first input operation is the first preset operation, the output device to separately display, on the interface corresponding to the first application, an identifier corresponding to each second application in the multiple second applications; and
after the input device receives an operation of selecting, by the user, one or more identifiers from identifiers corresponding to the multiple second applications, the processor instructs the output device to simultaneously display the interface corresponding to the first application and an interface corresponding to an application identified by the one or more identifiers.

20. The electronic device according to any one of claims 10 to 19, wherein the application that correlates with the first application is preset, or is determined according to a history of using the first application and the second application by the user.

Patentansprüche

1. Verfahren zum Anzeigen einer Anwendungsschnittstelle, umfassend:

Erlangen (S101), durch ein elektronisches Gerät, wenn eine Schnittstelle entsprechend einer ersten Anwendung angezeigt ist, eines ersten Eingabebetriebs eines Anwenders; und
zeitgleiches Anzeigen (S102), gemäß voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb ein erster voreingestellter Betrieb ist, der Schnittstelle entsprechend der ersten Anwendung und einer Schnittstelle entsprechend einer zweiten Anwendung, wobei die Korrelationsinformationen verwendet werden

um anzuzeigen, dass die zweite Anwendung eine Anwendung ist, die mit der ersten Anwendung korreliert;
wobei die erste Anwendung eine Fotogalerie ist und wobei die zweite Anwendung eine Kamera ist;
wobei das Verfahren **dadurch gekennzeichnet ist, dass**
eine Größe der Schnittstelle entsprechend der Kamera eine Größe eines fotografierten Bilds ermittelt.

2. Verfahren nach Anspruch 1, wobei, bei zeitgleichem Anzeigen, gemäß voreingestellten Korrelationsinformationen, der Schnittstelle entsprechend der ersten Anwendung und einer Schnittstelle entsprechend einer zweiten Anwendung, das Verfahren ferner umfasst:

Empfangen eines zweiten Eingabebetriebs des Anwenders für die Schnittstelle entsprechend der zweiten Anwendung; und
Übertragen erster Daten, die durch die zweite Anwendung gemäß dem zweiten Eingabebetrieb ermittelt sind, an die erste Anwendung; oder
Empfangen eines dritten Eingabebetriebs des Anwenders für die Schnittstelle entsprechend der ersten Anwendung; und
Übertragen zweiter Daten, die durch die erste Anwendung gemäß dem dritten Eingabebetrieb ermittelt sind, an die zweite Anwendung.

3. Verfahren nach Anspruch 2, wobei:

nach dem Übertragen der ersten Daten durch die zweite Anwendung an die erste Anwendung gemäß dem zweiten Eingabebetrieb, das Verfahren ferner umfasst: Anzeigen erster Informationen auf der Schnittstelle entsprechend der ersten Anwendung, wobei die ersten Informationen die ersten Daten oder Informationen bezüglich der ersten Daten sind; oder
nach dem Übertragen der zweiten Daten durch die erste Anwendung an die zweite Anwendung gemäß dem dritten Eingabebetrieb, das Verfahren ferner umfasst:
Anzeigen zweiter Informationen auf der Schnittstelle entsprechend der zweiten Anwendung, wobei die zweiten Informationen die zweiten Daten oder Informationen bezüglich der zweiten Daten sind.

4. Verfahren nach Anspruch 1 oder 2 oder 3, ferner umfassend:
Umschalten, gemäß den voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb ein zweiter voreingestellter Betrieb ist, einer momentan angezeigten Schnittstelle von der Schnittstelle, die der ersten Anwendung entspricht, zu der Schnittstelle, die der zweiten Anwendung entspricht.

5. Verfahren nach einem der Ansprüche 1 bis 4, wobei der erste Eingabebetrieb einer oder mehrere der folgenden Betriebe ist:
ein Gleitbetrieb, ein Klopfbetrieb, ein Mehrfachberührungsbetrieb, eine Tasteneingabe, eine Eingabe über eine vorgegebene Position, eine Berührung-und-Halte-Eingabe, eine Spracheingabe und ein Schwerkrafterfassungsbetrieb.

6. Verfahren nach Anspruch 5, wobei der erste Eingabebetrieb ein erster Gleitbetrieb ist und das zeitgleiche Anzeigen gemäß voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb ein erster voreingestellter Betrieb ist, der Schnittstelle, die der ersten Anwendung entspricht, und einer Schnittstelle, die einer zweiten Anwendung entspricht, umfasst:
wenn eine Gleitgeschwindigkeit oder Gleitdistanz entsprechend dem ersten Gleitbetrieb geringer als ein erster voreingestellter Wert ist, zeitgleiches Anzeigen gemäß den voreingestellten Korrelationsinformationen der Schnittstelle, die der ersten Anwendung entspricht, und der Schnittstelle, die der zweiten Anwendung entspricht.

7. Verfahren nach Anspruch 5, wobei der erste Eingabebetrieb der Mehrfachberührungsbetrieb ist und das zeitgleiche Anzeigen gemäß voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb ein erster voreingestellter Betrieb ist, der Schnittstelle, die der ersten Anwendung entspricht, und einer Schnittstelle, die einer zweiten Anwendung entspricht, umfasst:

wenn eine Distanz zwischen Berührungspunkten von Mehrfachberührungspunkten allmählich abnimmt und ein verringerter Wert einer Distanz zwischen zwei Berührungspunkten in den Mehrfachberührungspunkten größer oder gleich einem ersten voreingestellten Distanzwert ist, zeitgleiches Anzeigen gemäß den voreingestellten Korrelationsinformationen der Schnittstelle, die der ersten Anwendung entspricht, und der Schnittstelle, die der zweiten Anwendung entspricht; oder
wenn eine Distanz zwischen Berührungspunkten der Mehrfachberührungspunkte allmählich zunimmt und ein erhöhter Wert einer Distanz zwischen zwei Berührungspunkten in den Mehrfachberührungspunkten größer oder gleich einem zweiten voreingestellten Distanzwert ist, zeitgleiches Anzeigen gemäß den voreingestellten Korrelationsinformationen der Schnittstelle, die der ersten Anwendung entspricht, und

der Schnittstelle, die der zweiten Anwendung entspricht.

8. Verfahren nach einem der Ansprüche 1 bis 7, wobei es mehrfache zweite Anwendungen gibt, und das zeitgleiche Anzeigen gemäß voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb ein erster voreingestellter Betrieb ist, der Schnittstelle, die der ersten Anwendung entspricht, und einer Schnittstelle, die einer zweiten Anwendung entspricht, insbesondere umfasst:

wenn der erste Eingabebetrieb der erste voreingestellte Betrieb ist, getrenntes Anzeigen gemäß den voreingestellten Korrelationsinformationen und auf der Schnittstelle, die der ersten Anwendung entspricht, eines Identifikators entsprechend jeder zweiten Anwendung in den mehrfachen zweiten Anwendungen;
Empfangen eines Betriebs zum Auswählen, durch den Anwender, eines oder mehrerer Identifikatoren von Identifikatoren entsprechend den mehrfachen zweiten Anwendungen; und
zeitgleiches Anzeigen der Schnittstelle, die der ersten Anwendung entspricht, und einer Schnittstelle, die einer Anwendung entspricht, die durch den einen oder die mehreren Identifikatoren identifiziert ist.

9. Verfahren nach einem der Ansprüche 1 bis 8, wobei die Anwendung, die mit der ersten Anwendung korreliert, voreingestellt ist oder gemäß einer Verwendungshistorie der ersten Anwendung und der zweiten Anwendung durch den Anwender ermittelt ist.

10. Elektronische Vorrichtung umfassend:

eine Ausgabevorrichtung (40), die konfiguriert ist, eine Schnittstelle gemäß einer ersten Anwendung anzuzeigen;
eine Eingabevorrichtung (50), die konfiguriert ist, einen ersten Eingabebetrieb von einem Anwender zu erlangen, wenn die Ausgabevorrichtung die Schnittstelle, die der ersten Anwendung entspricht, anzeigt; und
einen Prozessor (60), der konfiguriert ist, gemäß voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb ein erster voreingestellter Betrieb ist, die Ausgabevorrichtung anzuweisen, zeitgleich die Schnittstelle, die der ersten Anwendung entspricht, und eine Schnittstelle, die einer zweiten Anwendung entspricht, anzuzeigen, wobei die Korrelationsinformationen verwendet werden, um anzuzeigen, dass die zweite Anwendung eine Anwendung ist, die mit der ersten Anwendung korreliert;
wobei die erste Anwendung eine Fotogalerie ist und wobei die zweite Anwendung eine Kamera ist;
wobei die elektronische Vorrichtung **dadurch gekennzeichnet ist, dass** eine Größe der Schnittstelle, die der Kamera entspricht, eine Größe eines fotografierten Bilds ermittelt.

11. Elektronische Vorrichtung nach Anspruch 10, wobei:

die Eingabevorrichtung ferner konfiguriert ist, wenn die Ausgabevorrichtung zeitgleich die Schnittstelle, die der ersten Anwendung entspricht, und die Schnittstelle, die der zweiten Anwendung entspricht, anzeigt, einen zweiten Eingabebetrieb des Anwenders für die Schnittstelle zu empfangen, die der zweiten Anwendung entspricht; und
der Prozessor ferner konfiguriert ist, erste Daten, die durch die zweite Anwendung ermittelt sind, gemäß dem zweiten Eingabebetrieb an die erste Anwendung zu übertragen.

12. Elektronische Vorrichtung nach Anspruch 10, wobei:

die Eingabevorrichtung ferner konfiguriert ist, wenn die Ausgabevorrichtung zeitgleich die Schnittstelle, die der ersten Anwendung entspricht, und die Schnittstelle, die der zweiten Anwendung entspricht, anzeigt, einen dritten Eingabebetrieb des Anwenders für die Schnittstelle zu empfangen, die der ersten Anwendung entspricht; und
der Prozessor ferner konfiguriert ist, zweite Daten, die durch die erste Anwendung ermittelt sind, gemäß dem dritten Eingabebetrieb an die zweite Anwendung zu übertragen.

13. Elektronische Vorrichtung nach Anspruch 11, wobei der Prozessor ferner konfiguriert ist zum:

nach dem Übertragen der ersten Daten durch die zweite Anwendung an die erste Anwendung gemäß dem zweiten Eingabebetrieb, Anweisen der Ausgabevorrichtung,
erste Informationen auf der Schnittstelle, die der ersten Anwendung entspricht, anzuzeigen, wobei die ersten Informationen die ersten Daten oder Informationen bezüglich der ersten Daten sind.

14. Elektronische Vorrichtung nach Anspruch 12, wobei der Prozessor ferner konfiguriert ist zum:

nach dem Übertragen der zweiten Daten durch die erste Anwendung an die zweite Anwendung gemäß dem dritten Eingabebetrieb, Anweisen der Ausgabevorrichtung,
zweite Informationen auf der Schnittstelle, die der zweiten Anwendung entspricht, anzuzei-

gen, wobei die zweiten Informationen die zweiten Daten oder Informationen bezüglich der zweiten Daten sind.

15. Elektronische Vorrichtung nach einem der Ansprüche 10 bis 14, wobei der Prozessor ferner konfiguriert ist zum:
Anweisen, gemäß den voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb ein zweiter voreingestellter Betrieb ist, der Ausgabevorrichtung, eine momentan angezeigte Schnittstelle von der Schnittstelle, die der ersten Anwendung entspricht, zur Schnittstelle, die der zweiten Anwendung entspricht, umzuschalten.

16. Elektronische Vorrichtung nach einem der Ansprüche 10 bis 15, wobei der erste Eingabebetrieb einer oder mehrere der folgenden Betriebe ist:
ein Gleitbetrieb, ein Klopfbetrieb, ein Mehrfachberührungsbetrieb, eine Tasteneingabe, eine Eingabe über eine vorgegebene Position, eine Berührung-und-Halte-Eingabe, eine Spracheingabe und ein Schwerkrafterfassungsbetrieb.

17. Elektronische Vorrichtung nach Anspruch 16, wobei der erste Eingabebetrieb ein erster Gleitbetrieb ist; und ein Anweisen, durch den Prozessor gemäß den voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb der erste voreingestellte Betrieb ist, der Ausgabevorrichtung, zeitgleich die Schnittstelle, die der ersten Anwendung entspricht, und die Schnittstelle, die der zweiten Anwendung entspricht, anzuzeigen, insbesondere ist:
wenn eine Gleitgeschwindigkeit oder Gleitdistanz entsprechend dem ersten Gleitbetrieb geringer ist als ein erster voreingestellter Wert, der Prozessor gemäß den voreingestellten Korrelationsinformationen die Ausgabevorrichtung anweist, zeitgleich die Schnittstelle, die der ersten Anwendung entspricht, und die Schnittstelle, die der zweiten Anwendung entspricht, anzuzeigen.

18. Elektronische Vorrichtung nach Anspruch 16, wobei der erste Eingabebetrieb der Mehrfachberührungsbetrieb ist; und ein Anweisen, durch den Prozessor gemäß der voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb der erste voreingestellte Betrieb ist, der Ausgabevorrichtung, zeitgleich die Schnittstelle, die der ersten Anwendung entspricht, und die Schnittstelle, die der zweiten Anwendung entspricht, anzuzeigen, insbesondere ist:

wenn eine Distanz zwischen Berührungspunkten von Mehrfachberührungspunkten allmählich abnimmt und ein verringerter Wert einer Distanz zwischen zwei Berührungspunkten in den Mehrfachberührungspunkten größer oder gleich einem ersten voreingestellten Distanzwert ist, der Prozessor gemäß den voreingestellten Korrelationsinformationen die Ausgabevorrichtung anweist, die Schnittstelle, die der ersten Anwendung entspricht, und die Schnittstelle, die der zweiten Anwendung entspricht, zeitgleich anzuzeigen; oder
wenn eine Distanz zwischen Berührungspunkten der Mehrfachberührungspunkte allmählich zunimmt und ein erhöhter Wert einer Distanz zwischen zwei Berührungspunkten in den Mehrfachberührungspunkten größer oder gleich einem zweiten voreingestellten Distanzwert ist, der Prozessor gemäß den voreingestellten Korrelationsinformationen die Ausgabevorrichtung anweist, die Schnittstelle, die der ersten Anwendung entspricht, und die Schnittstelle, die der zweiten Anwendung entspricht, zeitgleich anzuzeigen.

19. Elektronische Vorrichtung nach einem der Ansprüche 10 bis 18, wobei es mehrfache zweite Anwendungen gibt; und ein Anweisen, durch den Prozessor gemäß den voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb der erste voreingestellte Betrieb ist, der Ausgabevorrichtung, zeitgleich die Schnittstelle, die der ersten Anwendung entspricht, und die Schnittstelle, die der zweiten Anwendung entspricht, anzuzeigen, insbesondere ist:

der Prozessor weist gemäß den voreingestellten Korrelationsinformationen, wenn der erste Eingabebetrieb der erste voreingestellte Betrieb ist, die Ausgabevorrichtung an, auf der Schnittstelle, die der ersten Anwendung entspricht, getrennt einen Identifikator entsprechend jeder zweiten Anwendung unter den mehrfachen zweiten Anwendungen anzuzeigen; und
nachdem die Eingabevorrichtung einen Betrieb zum Auswählen, durch den Anwender, eines oder mehrerer Identifikatoren von Identifikatoren, die den mehrfachen zweiten Anwendungen entsprechen, empfangen hat, der Prozessor die Ausgabevorrichtung anweist, zeitgleich die Schnittstelle, die der ersten Anwendung entspricht, und eine Schnittstelle, die einer Anwendung entspricht, die durch den einen oder die mehreren Identifikatoren identifiziert ist, anzuzeigen.

20. Elektronische Vorrichtung nach einem der Ansprüche 10 bis 19, wobei die Anwendung, die mit der ersten Anwendung korreliert, voreingestellt ist oder gemäß einer Verwendungshistorie der ersten Anwendung und der zweiten Anwendung durch den Anwender ermittelt wird.

Revendications

1. Procédé d'affichage d'une interface d'application, consistant à :

acquérir (S101), par un dispositif électronique lors de l'affichage d'une interface correspondant à une première application, une première opération d'entrée d'un utilisateur ; et
afficher simultanément (S102), selon une information de corrélation prédéfinie quand la première opération d'entrée est une première opération prédéfinie, l'interface correspondant à la première application et une interface correspondant à une seconde application, l'information de corrélation étant utilisée pour indiquer que la seconde application est une application qui est corrélée avec la première application ;
la première application étant une galerie de photos, et la seconde application étant un appareil photo ;
le procédé étant **caractérisé en ce que** :
une taille de l'interface correspondant à l'appareil photo détermine une taille d'une image photographiée.

2. Procédé selon la revendication 1, le procédé consistant en outre, lors de l'affichage simultané, selon une information de corrélation prédéfinie, de l'interface correspondant à la première application et d'une interface correspondant à une seconde application, à :

recevoir une deuxième opération d'entrée de l'utilisateur pour l'interface correspondant à la seconde application ; et
transférer, vers la première application, des premières données déterminées par la seconde application selon la deuxième opération d'entrée ; ou
recevoir une troisième opération d'entrée de l'utilisateur pour l'interface correspondant à la première application ; et
transférer, vers la seconde application, des secondes données déterminées par la première application selon la troisième opération d'entrée.

3. Procédé selon la revendication 2,
le procédé consistant en outre, après le transfert, par la seconde application, des premières données vers la première application selon la deuxième opération d'entrée, à : afficher une première information sur l'interface correspondant à la première application, la première information étant les premières données ou une information relative aux premières données ; ou
le procédé consistant en outre, après le transfert, par la première application, des secondes données vers la seconde application selon la troisième opération d'entrée, à : afficher une seconde information sur l'interface correspondant à la seconde application, la seconde information étant les secondes données ou une information relative aux secondes données.

4. Procédé selon la revendication 1 ou 2 ou 3, consistant en outre à :
faire passer, selon l'information de corrélation prédéfinie quand la première opération d'entrée est une seconde opération prédéfinie, une interface actuellement affichée de l'interface correspondant à la première application à l'interface correspondant à la seconde application.

5. Procédé selon l'une quelconque des revendications 1 à 4, dans lequel la première opération d'entrée est une ou plusieurs quelconques des opérations suivantes :
une opération de glissement, une opération d'effleurement, une opération de toucher en de multiples points, une entrée de bouton, une entrée de position définie, une entrée de toucher et de maintien, une entrée vocale et une opération de détection de gravité.

6. Procédé selon la revendication 5, dans lequel la première opération d'entrée est une première opération de glissement, et l'affichage simultané, selon une information de corrélation prédéfinie quand la première opération d'entrée est une première opération prédéfinie, de l'interface correspondant à la première application et d'une interface correspondant à une seconde application consiste à :
quand une vitesse de glissement ou une distante de glissement correspondant à la première opération de glissement est inférieure à une première valeur prédéfinie, afficher simultanément, selon l'information de corrélation prédéfinie, l'interface correspondant à la première application et l'interface correspondant à la seconde application.

7. Procédé selon la revendication 5, dans lequel la première opération d'entrée est l'opération de toucher en de multiples points, et l'affichage simultané, selon une information de corrélation prédéfinie quand la première opération d'entrée est une première opération prédéfinie, de l'interface correspondant à la première application et d'une interface correspondant à une seconde application consiste à :

quand une distance entre des points tactiles de multiples points tactiles diminue progressivement, et une valeur diminuée d'une distance entre deux points tactiles parmi les multiples points tactiles est supérieure ou égale à une première

valeur de distance prédéfinie, afficher simultanément, selon l'information de corrélation prédéfinie, l'interface correspondant à la première application et l'interface correspondant à la seconde application ; ou
quand une distance entre des points tactiles des multiples points tactiles augmente progressivement, et une valeur augmentée d'une distance entre deux points tactiles parmi les multiples points tactiles est supérieure ou égale à une seconde valeur de distance prédéfinie, afficher simultanément, selon l'information de corrélation prédéfinie, l'interface correspondant à la première application et l'interface correspondant à la seconde application.

8. Procédé selon l'une quelconque des revendications 1 à 7, dans lequel il y a de multiples secondes applications, et l'affichage simultané, selon une information de corrélation prédéfinie quand la première opération d'entrée est une première opération prédéfinie, de l'interface correspondant à la première application et d'une interface correspondant à une seconde application consiste spécifiquement à :

quand la première opération d'entrée est la première opération prédéfinie, afficher séparément, selon l'information de corrélation prédéfinie et sur l'interface correspondant à la première application, un identifiant correspondant à chaque seconde application parmi les multiples secondes applications ;
recevoir une opération de sélection, par l'utilisateur, d'un ou plusieurs identifiants parmi des identifiants correspondant aux multiples secondes applications ; et
afficher simultanément l'interface correspondant à la première application et une interface correspondant à une application identifiée par le ou les identifiants.

9. Procédé selon l'une quelconque des revendications 1 à 8, dans lequel l'application qui est corrélée avec la première application est prédéfinie, ou est déterminée selon un historique d'utilisation de la première application et de la seconde application par l'utilisateur.

10. Dispositif électronique, comprenant :

un dispositif de sortie (40), conçu pour afficher une interface correspondant à une première application ;
un dispositif d'entrée (50), conçu pour acquérir une première opération d'entrée d'un utilisateur quand le dispositif de sortie affiche l'interface correspondant à la première application ; et
un processeur (60), conçu pour donner l'instruction, selon une information de corrélation prédéfinie quand la première opération d'entrée est une première opération prédéfinie, au dispositif de sortie d'afficher simultanément l'interface correspondant à la première application et une interface correspondant à une seconde application, l'information de corrélation étant utilisée pour indiquer que la seconde application est une application qui est corrélée avec la première application ;
la première application étant une galerie de photos, et la seconde application étant un appareil photo ;
le dispositif électronique étant **caractérisé en ce que** :
une taille de l'interface correspondant à l'appareil photo détermine une taille d'une image photographiée.

11. Dispositif électronique selon la revendication 10, dans lequel :

le dispositif d'entrée est en outre conçu, quand le dispositif de sortie affiche simultanément l'interface correspondant à la première application et l'interface correspondant à la seconde application, pour recevoir une deuxième opération d'entrée de l'utilisateur pour l'interface correspondant à la seconde application ; et
le processeur est en outre conçu pour transférer, vers la première application, des premières données déterminées par la seconde application selon la deuxième opération d'entrée.

12. Dispositif électronique selon la revendication 10, dans lequel :

le dispositif d'entrée est en outre conçu, quand le dispositif de sortie affiche simultanément l'interface correspondant à la première application et l'interface correspondant à la seconde application, pour recevoir une troisième opération d'entrée de l'utilisateur pour l'interface correspondant à la première application ; et
le processeur est en outre conçu pour transférer, vers la seconde application, des secondes données déterminées par la première application selon la troisième opération d'entrée.

13. Dispositif électronique selon la revendication 11, dans lequel le processeur est en outre conçu pour : après le transfert, par la seconde application, des premières données vers la première application selon la deuxième opération d'entrée, donner l'instruction au dispositif de sortie d'afficher une première information sur l'interface correspondant à la première application, la première information étant les premières données ou une information relative aux

premières données.

14. Dispositif électronique selon la revendication 12, dans lequel le processeur est en outre conçu pour : après le transfert, par la première application, des secondes données vers la seconde application selon la troisième opération d'entrée, donner l'instruction au dispositif de sortie d'afficher une seconde information sur l'interface correspondant à la seconde application, la seconde information étant les secondes données ou une information relative aux secondes données.

15. Dispositif électronique selon l'une quelconque des revendications 10 à 14, dans lequel le processeur est en outre conçu pour :
donner l'instruction, selon l'information de corrélation prédéfinie quand la première opération d'entrée est une seconde opération prédéfinie, au dispositif de sortie de faire passer une interface actuellement affichée de l'interface correspondant à la première application à l'interface correspondant à la seconde application.

16. Dispositif électronique selon l'une quelconque des revendications 10 à 15, dans lequel la première opération d'entrée est une ou plusieurs quelconques des opérations suivantes :
une opération de glissement, une opération d'effleurement, une opération de toucher en de multiples points, une entrée de bouton, une entrée de position définie, une entrée de toucher et de maintien, une entrée vocale et une opération de détection de gravité.

17. Dispositif électronique selon la revendication 16, dans lequel la première opération d'entrée est une première opération de glissement ; et le fait que le processeur donne l'instruction, selon l'information de corrélation prédéfinie quand la première opération d'entrée est la première opération prédéfinie, au dispositif de sortie d'afficher simultanément l'interface correspondant à la première application et l'interface correspondant à la seconde application consiste spécifiquement à ce que :
quand une vitesse de glissement ou une distante de glissement correspondant à la première opération de glissement est inférieure à une première valeur prédéfinie, le processeur donne l'instruction, selon l'information de corrélation prédéfinie, au dispositif de sortie d'afficher simultanément l'interface correspondant à la première application et l'interface correspondant à la seconde application.

18. Dispositif électronique selon la revendication 16, dans lequel la première opération d'entrée est l'opération de toucher en de multiples points ; et le fait que le processeur donne l'instruction, selon l'information de corrélation prédéfinie quand la première opération d'entrée est la première opération prédéfinie, au dispositif de sortie d'afficher simultanément l'interface correspondant à la première application et l'interface correspondant à la seconde application consiste spécifiquement à ce que :

quand une distance entre des points tactiles de multiples points tactiles diminue progressivement, et une valeur diminuée d'une distance entre deux points tactiles parmi les multiples points tactiles est supérieure ou égale à une première valeur de distance prédéfinie, le processeur donne l'instruction, selon l'information de corrélation prédéfinie, au dispositif de sortie d'afficher simultanément l'interface correspondant à la première application et l'interface correspondant à la seconde application ; ou
quand une distance entre des points tactiles des multiples points tactiles augmente progressivement, et une valeur augmentée d'une distance entre deux points tactiles parmi les multiples points tactiles est supérieure ou égale à une seconde valeur de distance prédéfinie, le processeur donne l'instruction, selon l'information de corrélation prédéfinie, au dispositif de sortie d'afficher simultanément l'interface correspondant à la première application et l'interface correspondant à la seconde application.

19. Dispositif électronique selon l'une quelconque des revendications 10 à 18, dans lequel il y a de multiples secondes applications ; et le fait que le processeur donne l'instruction, selon l'information de corrélation prédéfinie quand la première opération d'entrée est la première opération prédéfinie, au dispositif de sortie d'afficher simultanément l'interface correspondant à la première application et l'interface correspondant à la seconde application consiste spécifiquement à ce que :
le processeur donne l'instruction, selon l'information de corrélation prédéfinie quand la première opération d'entrée est la première opération prédéfinie, au dispositif de sortie d'afficher séparément, sur l'interface correspondant à la première application, un identifiant correspondant à chaque seconde application parmi les multiples secondes applications ; et après la réception par le dispositif d'entrée d'une opération de sélection, par l'utilisateur, d'un ou plusieurs identifiants parmi des identifiants correspondant aux multiples secondes applications, le processeur donne l'instruction au dispositif de sortie d'afficher simultanément l'interface correspondant à la première application et une interface correspondant à une application identifiée par le ou les identifiants.

20. Dispositif électronique selon l'une quelconque des revendications 10 à 19, dans lequel l'application qui

est corrélée avec la première application est prédéfinie, ou est déterminée selon un historique d'utilisation de la première application et de la seconde application par l'utilisateur.

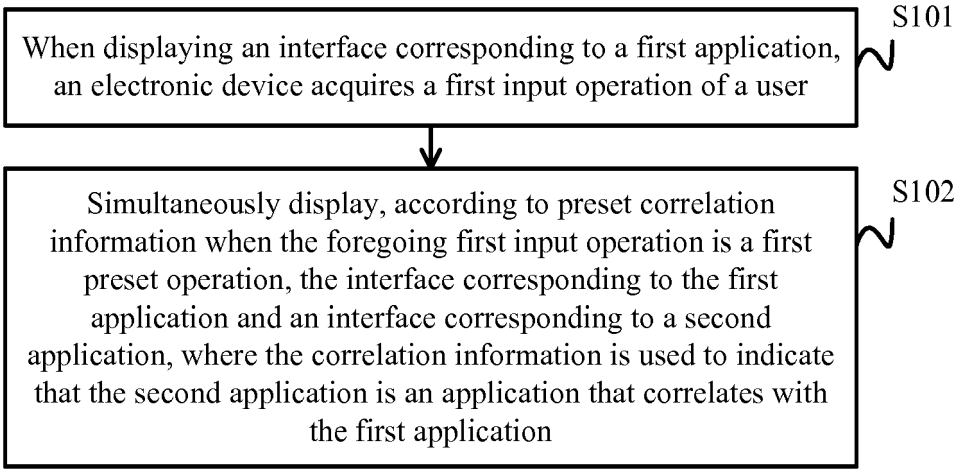
When displaying an interface corresponding to a first application, an electronic device acquires a first input operation of a user
S101
Simultaneously display, according to preset correlation information when the foregoing first input operation is a first preset operation, the interface corresponding to the first application and an interface corresponding to a second application, where the correlation information is used to indicate that the second application is an application that correlates with the first application
S102

FIG. 1

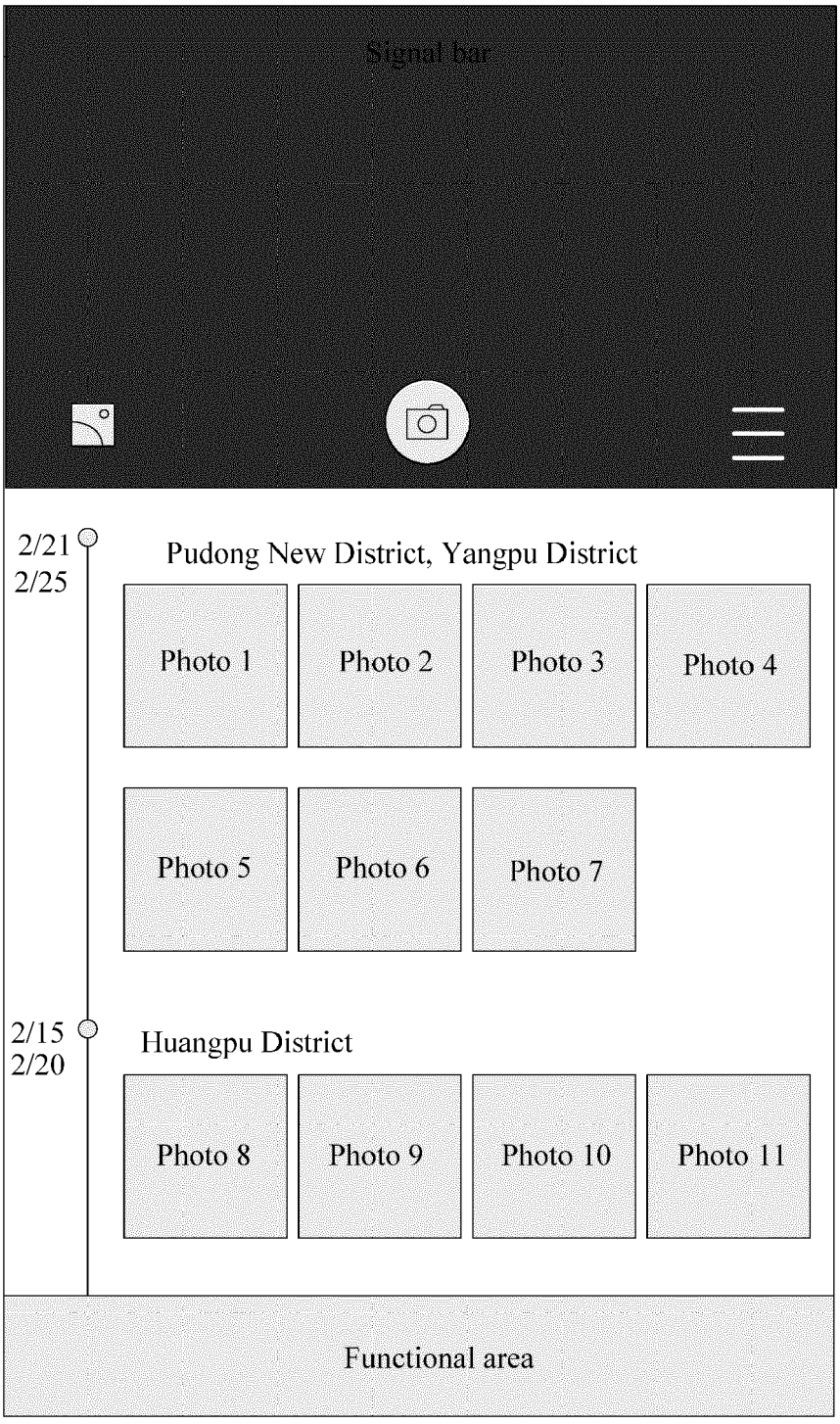
Signal bar
2/21
2/25
Pudong New District, Yangpu District
Photo 1
Photo 2
Photo 3
Photo 4
Photo 5
Photo 6
Photo 7
2/15
2/20
Huangpu District
Photo 8
Photo 9
Photo 10
Photo 11
Functional area

FIG. 2

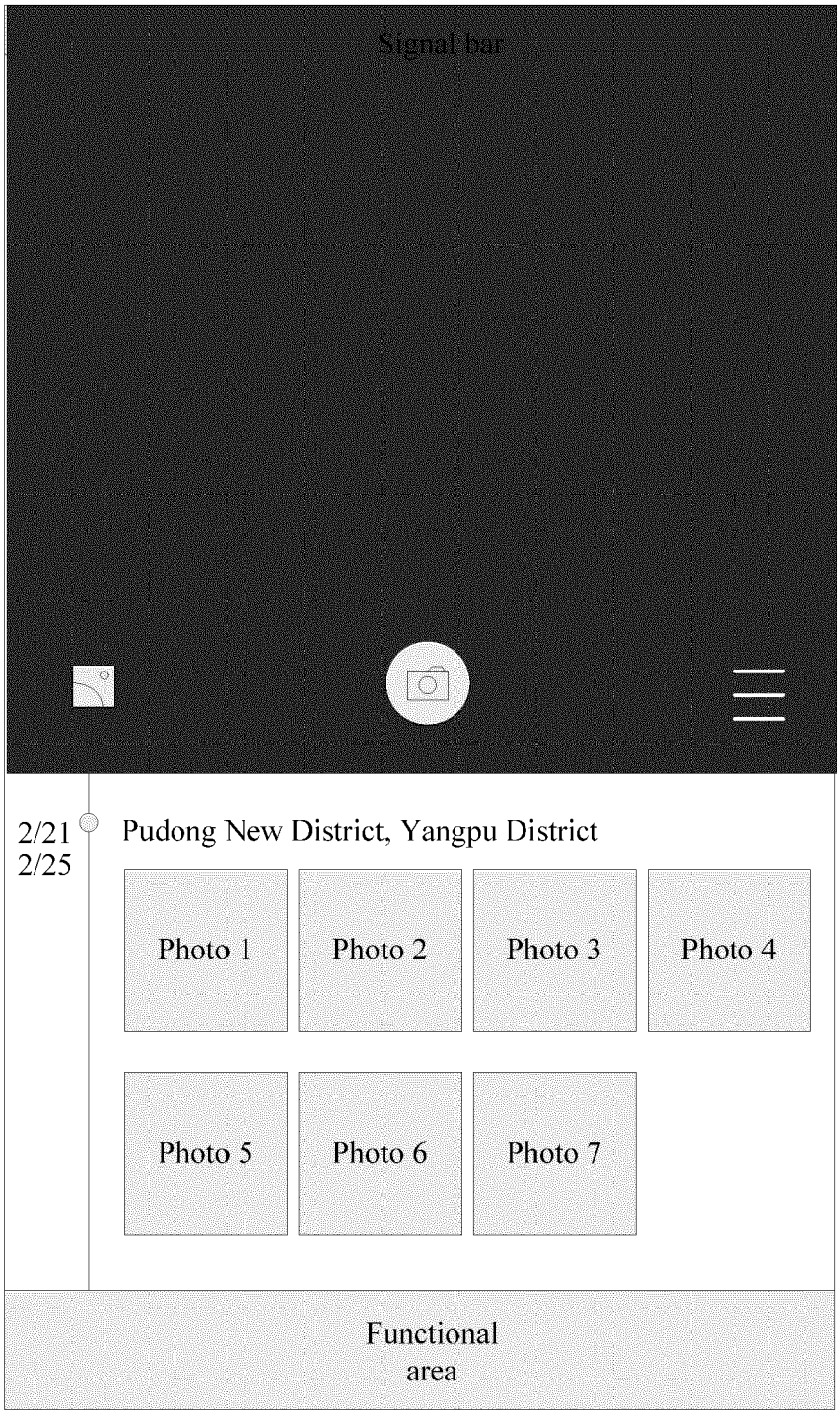
Signal bar
2/21
2/25
Pudong New District, Yangpu District
Photo 1
Photo 2
Photo 3
Photo 4
Photo 5
Photo 6
Photo 7
Functional area

FIG. 3

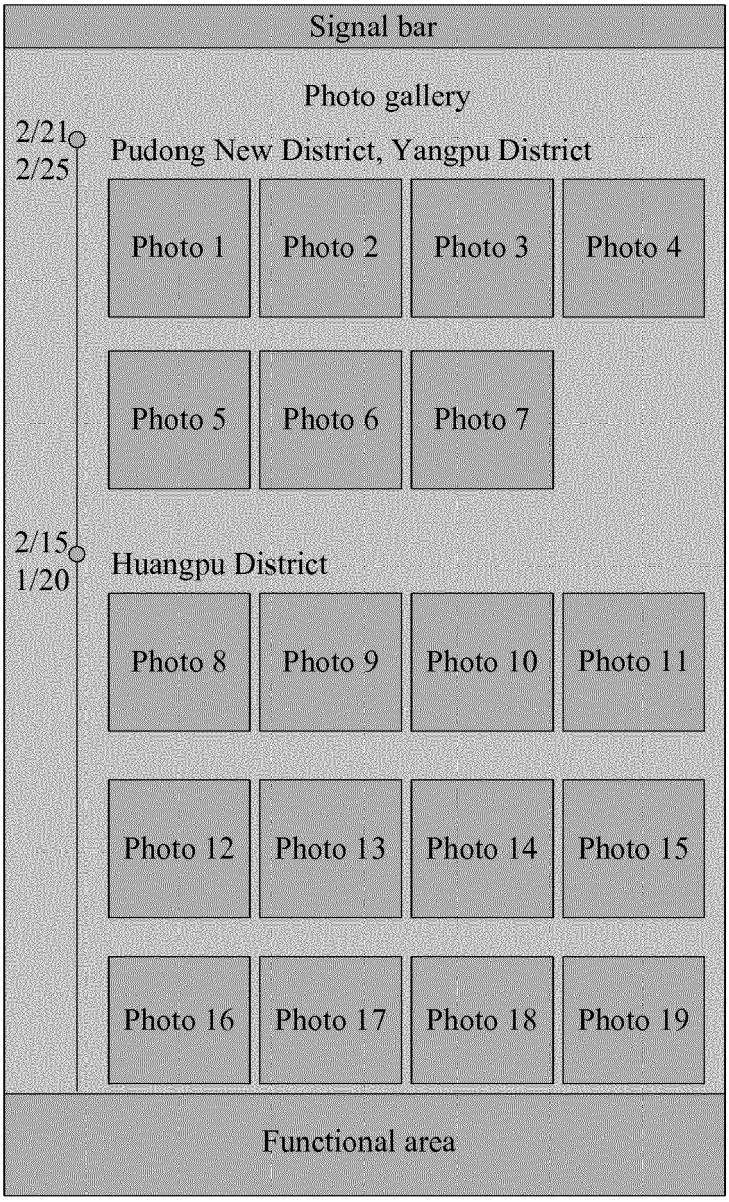
Signal bar
Photo gallery
2/21
2/25
Pudong New District, Yangpu District
Photo 1
Photo 2
Photo 3
Photo 4
Photo 5
Photo 6
Photo 7
2/15
1/20
Huangpu District
Photo 8
Photo 9
Photo 10
Photo 11
Photo 12
Photo 13
Photo 14
Photo 15
Photo 16
Photo 17
Photo 18
Photo 19
Functional area

FIG. 4

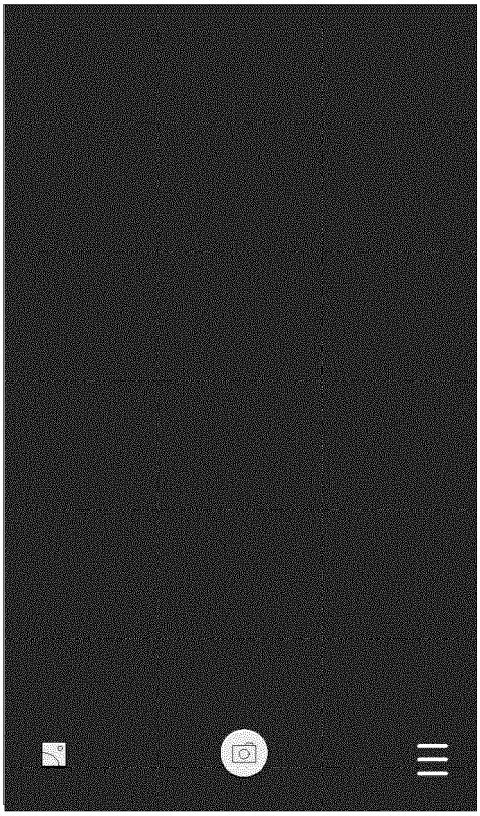

FIG. 5

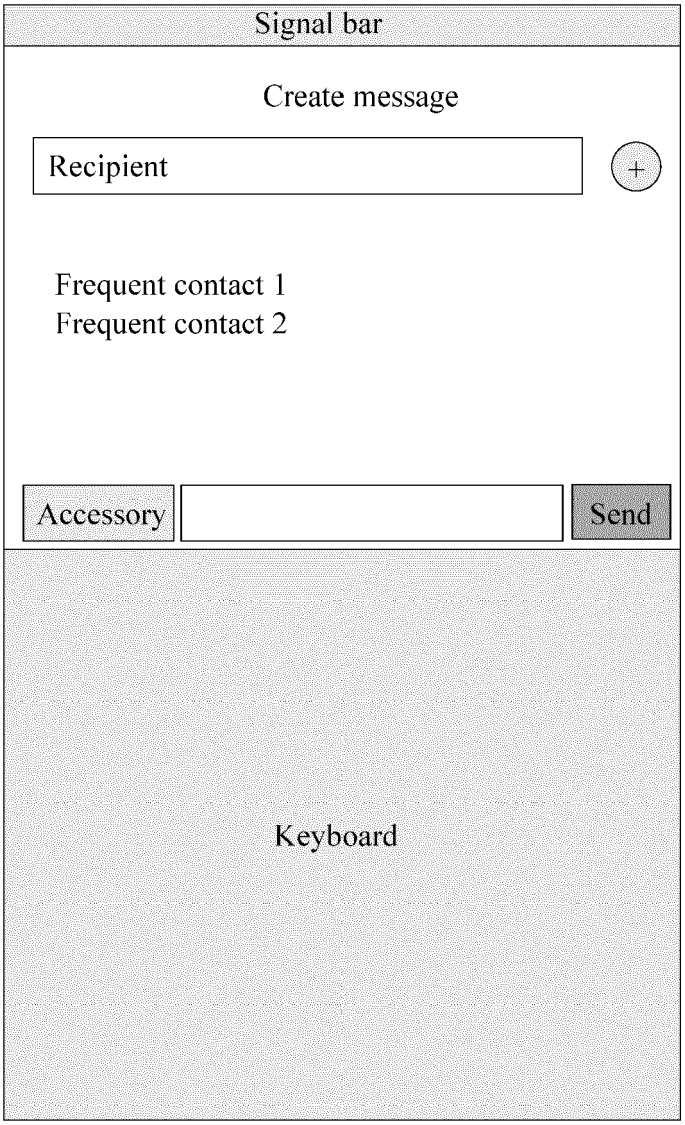
Signal bar
Create message
Recipient
+
Frequent contact 1
Frequent contact 2
Accessory
Send
Keyboard

FIG. 6

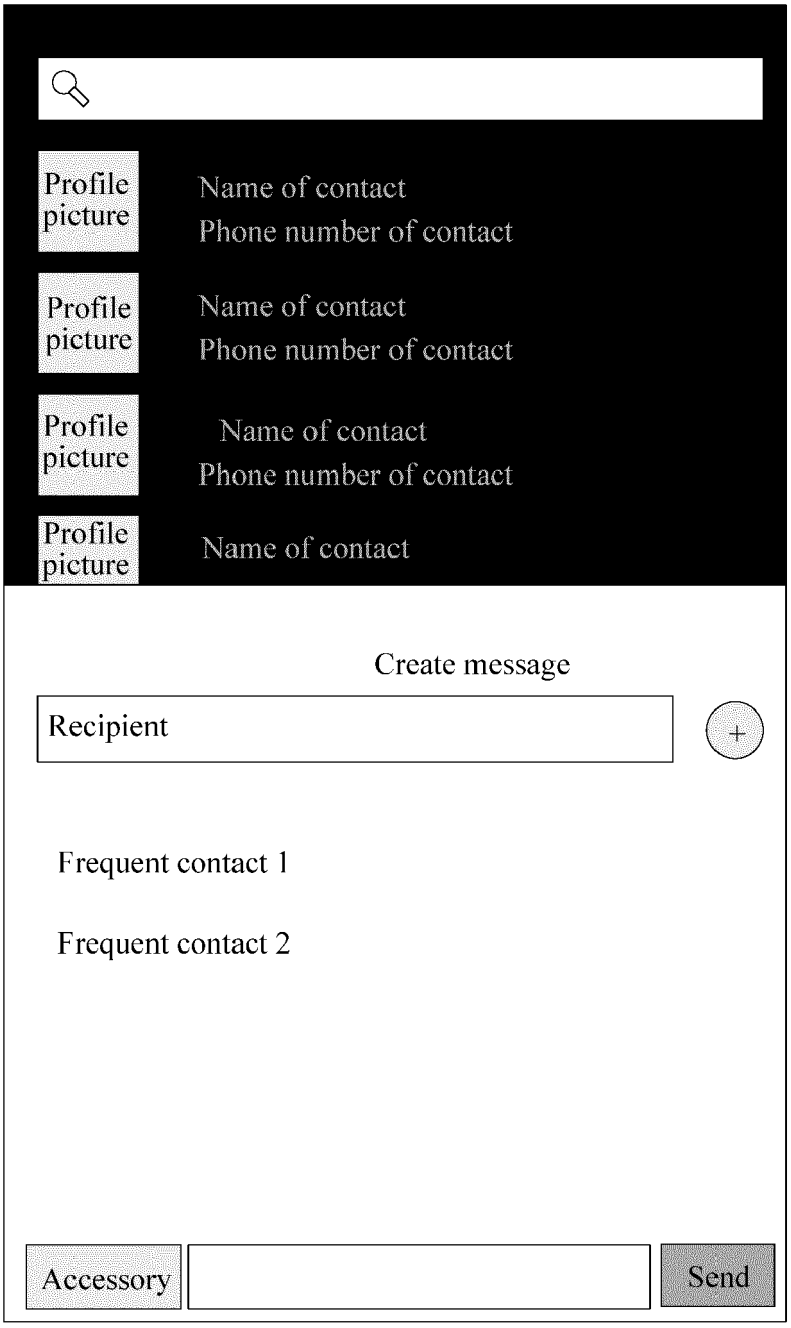
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Create message
Recipient
Frequent contact 1
Frequent contact 2
Accessory
Send

FIG. 7

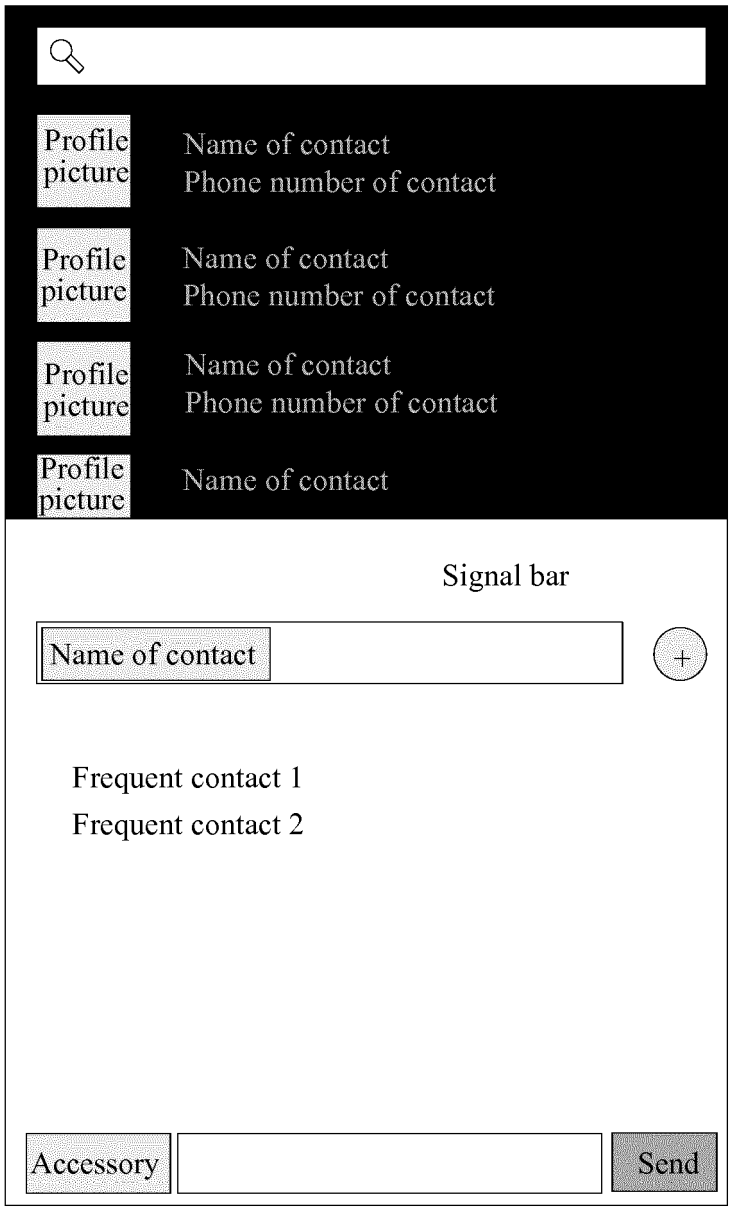
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Signal bar
Name of contact
+
Frequent contact 1
Frequent contact 2
Accessory
Send

FIG. 8

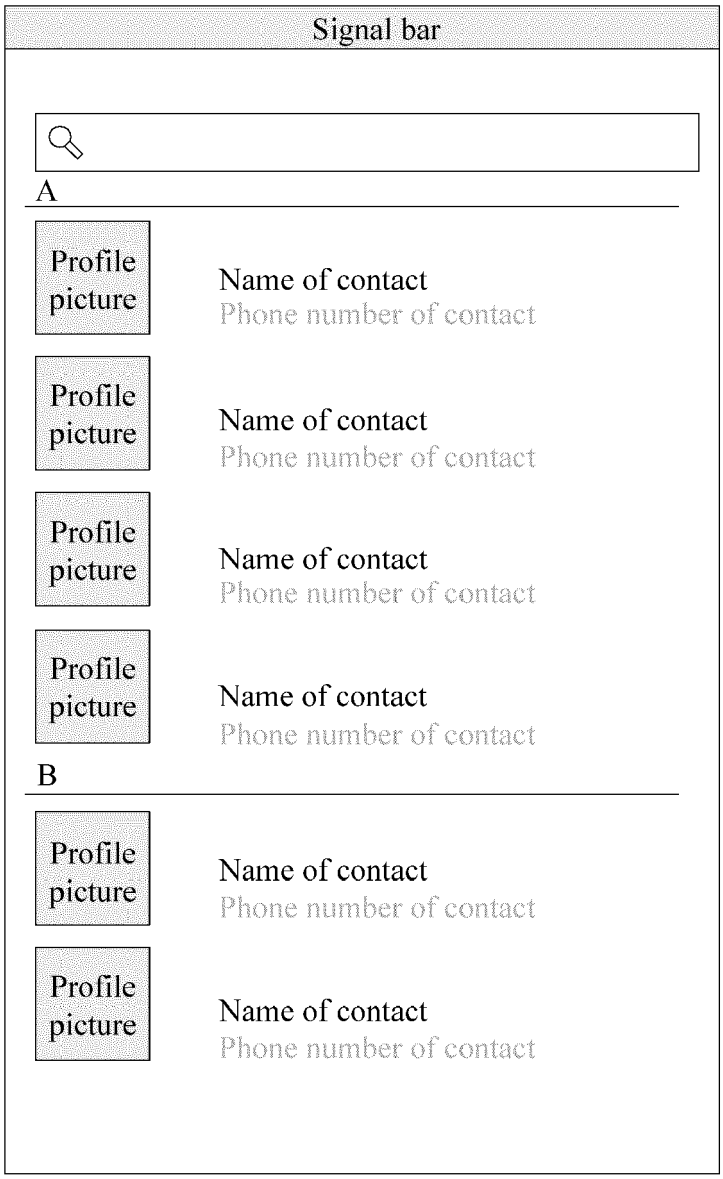
Signal bar
A
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
B
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact

FIG. 9

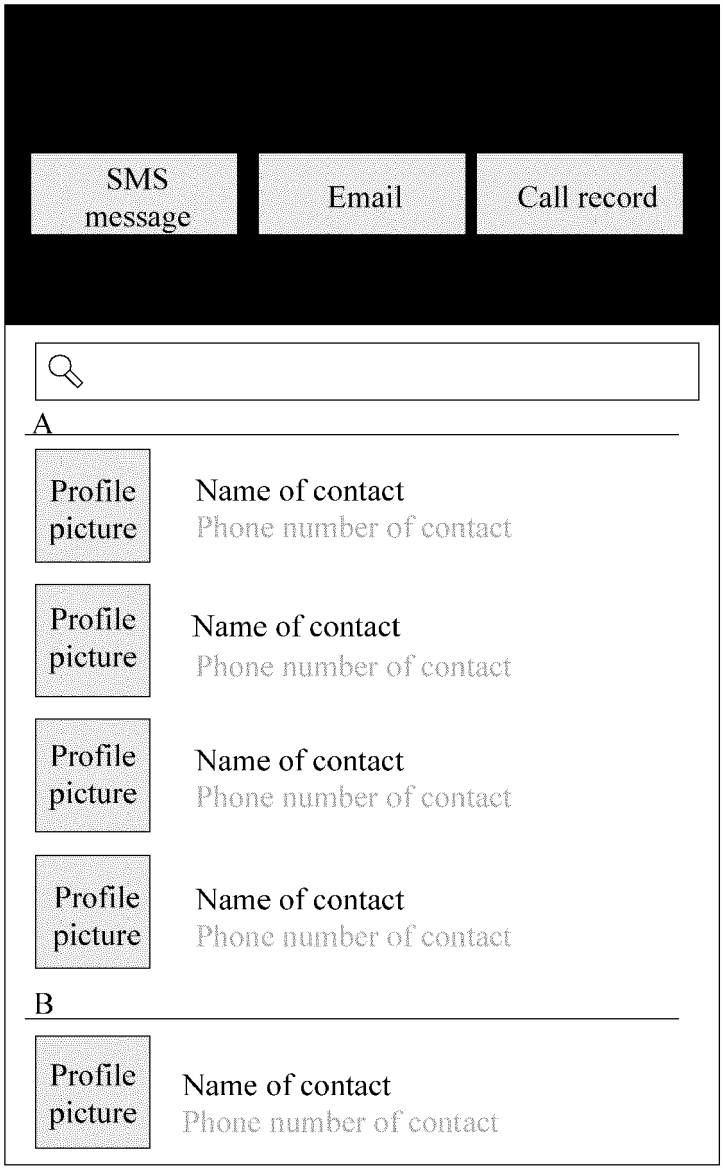
SMS message
Email
Call record
A
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
B
Profile picture
Name of contact
Phone number of contact

FIG. 10

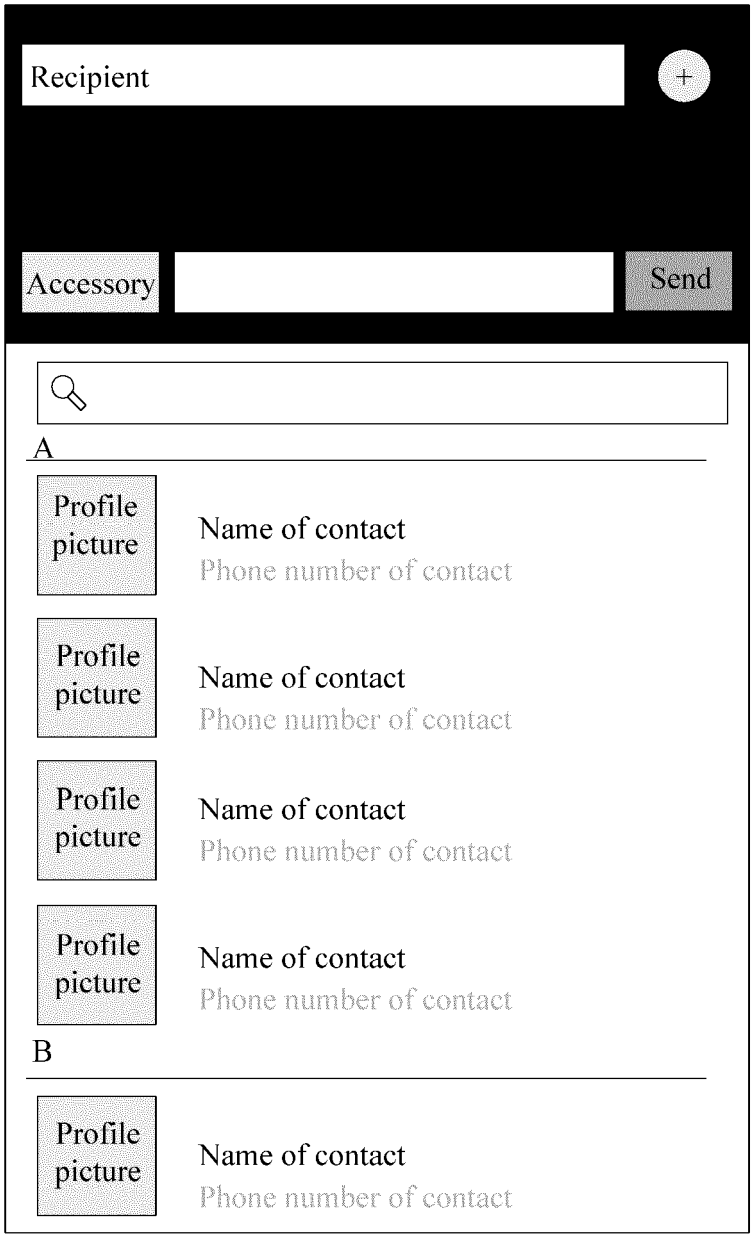
Recipient
+
Accessory
Send
A
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
B
Profile picture
Name of contact
Phone number of contact

FIG. 11

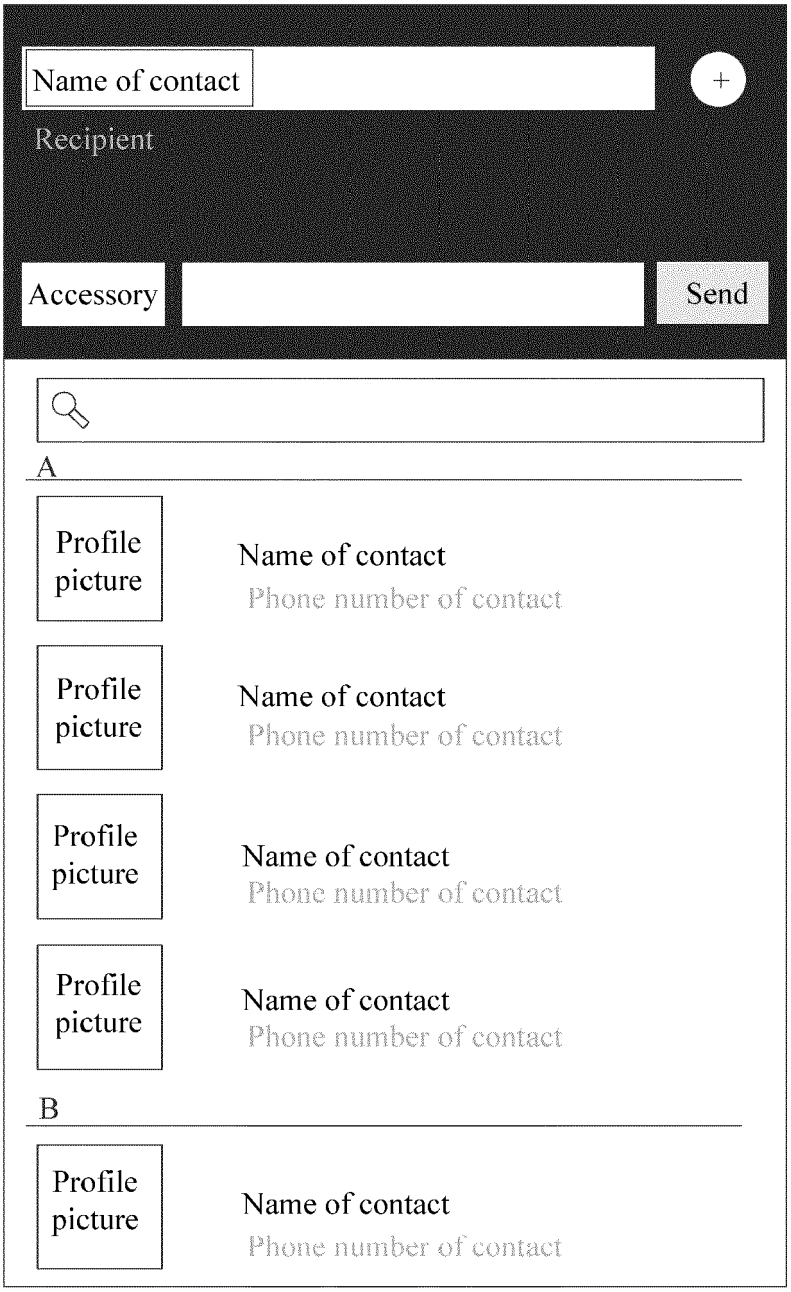
Name of contact
+
Recipient
Accessory
Send
A
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
Profile picture
Name of contact
Phone number of contact
B
Profile picture
Name of contact
Phone number of contact

FIG. 12

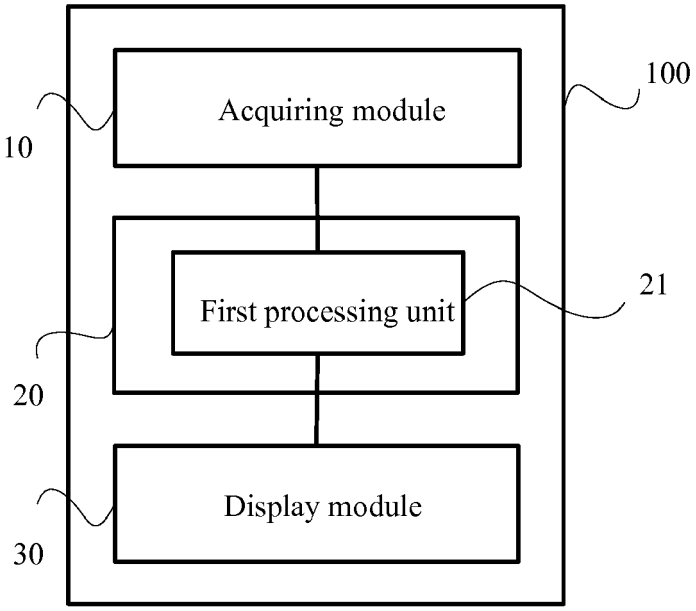
Acquiring module
100
10
First processing unit
21
20
Display module
30

FIG. 13

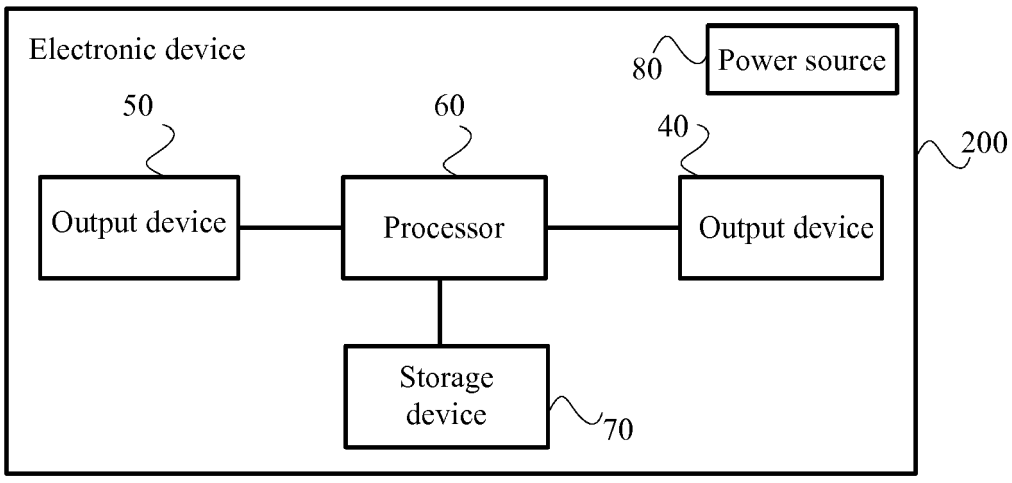
Electronic device
80
Power source
50
60
40
200
Output device
Processor
Output device
Storage device
70

FIG. 14

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- US 2010248788 A1 **[0004]**
- US 2013342482 A1 **[0005]**
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