HEALTH APPLICATION USER INTERFACES

Abstract

The present disclosure generally relates to health-related user interfaces. In some embodiments, user interfaces for managing health-related data are described. In some embodiments, user interfaces for viewing health data are described. In some embodiments, user interfaces related to sharing health data are described.

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Background/Summary

CROSS-REFERENCE TO RELATED APPLICATIONS [0001] This application is a continuation of U.S. patent application Ser. No. 18/370,833, filed on Sep. 20, 2023, entitled "HEALTH APPLICATION USER INTERFACES," which is a continuation of U.S. patent application Ser. No. 18/078,444, now U.S. Pat. No. 11,842,806, filed on Dec. 9, 2022, entitled "HEALTH APPLICATION USER INTERFACES," which is a continuation of U.S. patent application Ser. No. 17/041,415, now U.S. Pat. No. 11,527,316, filed on Sep. 24, 2020, entitled "HEALTH APPLICATION USER INTERFACES," which is a U.S. National Stage patent application of PCT/US2020/035164, filed on May 29, 2020, entitled "HEALTH APPLICATION USER INTERFACES," which is a continuation of U.S. patent application Ser. No. 16/880,714, now U.S. Pat. No. 11,152,100, filed on May 21, 2020, entitled "HEALTH APPLICATION USER INTERFACES," which claims priority to U.S. Provisional Patent Application Ser. No. 62/856,061, filed on Jun. 1, 2019, entitled "HEALTH APPLICATION USER INTERFACES," the contents of each of which are hereby incorporated by reference in their entirety.

FIELD
[0002] The present disclosure relates generally to computer user interfaces, and more specifically to techniques and user interfaces for managing health information and functions.
BACKGROUND
[0003] Electronic devices collect, store, and access health-related information for users. Such devices provide the user with the ability to manage health information and corresponding functions using the electronic device.
BRIEF SUMMARY
[0004] Some techniques for managing health information and functions using electronic devices, however, are generally cumbersome and inefficient. For example, some existing techniques use a complex and time-consuming user interface, which may include multiple key presses or keystrokes. Existing techniques require more time than necessary, wasting user time and device energy. This latter consideration is particularly important in battery-operated devices.
[0005] Accordingly, the present technique provides electronic devices with faster, more efficient methods and interfaces for managing health information and functions. Such methods and interfaces optionally complement or replace other methods for managing health information and functions. Such methods and interfaces reduce the cognitive burden on a user and produce a more efficient human-machine interface. For battery-operated computing devices, such methods and interfaces conserve power and increase the time between battery charges.
[0006] In accordance with some embodiments, a method is described. In some embodiments, the method is performed at an electronic device with a display device. In some embodiments, the method comprises: displaying, via the display device, a first instance of a first user interface including a first notification that, when selected, causes display of a first set of data; and after displaying the first instance of the first user interface, displaying a second instance of the first user interface, where: in accordance with a determination that a set of interaction criteria are met, the set of interaction criteria including a criterion that is met when the first set of data has been displayed, and in accordance with a determination that a first set of removal criteria are not met, the first set of

removal criteria including a first criterion that is based on a first period of time, the second instance of the first user interface includes the first notification; in accordance with a determination that the set of interaction criteria are met and in accordance with a determination that the first set of removal criteria are met, the second instance of the first user interface does not include the first notification; in accordance with a determination that the set of interaction criteria are not met and in accordance with a determination that a second set of removal criteria are not met, the second set of removal criteria including a second criterion that is based on a second period of time that is greater than the first period of time, the second instance of the first user interface includes the first notification; and in accordance with a determination that the set of interaction criteria are not met and in accordance with a determination that the second set of removal criteria are met, the second instance of the first user interface does not include the first notification.

[0007] In accordance with some embodiments, a non-transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device with a display device is described. In some embodiments, the one or more programs include instructions for: displaying, via the display device, a first instance of a first user interface including a first notification that, when selected, causes display of a first set of data; and after displaying the first instance of the first user interface, displaying a second instance of the first user interface, where: in accordance with a determination that a set of interaction criteria are met, the set of interaction criteria including a criterion that is met when the first set of data has been displayed, and in accordance with a determination that a first set of removal criteria are not met, the first set of removal criteria including a first criterion that is based on a first period of time, the second instance of the first user interface includes the first notification; in accordance with a determination that the set of interaction criteria are met and in accordance with a determination that the first set of removal criteria are met, the second instance of the first user interface does not include the first notification; in accordance with a determination that the set of interaction criteria are not met and in accordance with a determination that a second set of removal criteria are not met, the second set of removal criteria including a second criterion that is based on a second period of time that is greater than the first period of time, the second instance of the first user interface includes the first notification; and in accordance with a determination that the set of interaction criteria are not met and in accordance with a determination that the second set of removal criteria are met, the second instance of the first user interface does not include the first notification.

[0008] In accordance with some embodiments, a transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device with a display device is described. In some embodiments, the one or more programs include instructions for: displaying, via the display device, a first instance of a first user interface including a first notification that, when selected, causes display of a first set of data; and after displaying the first instance of the first user interface, displaying a second instance of the first user interface, where: in accordance with a determination that a set of interaction criteria are met, the set of interaction criteria including a criterion that is met when the first set of data has been displayed, and in accordance with a determination that a first set of removal criteria are not met, the first set of removal criteria including a first criterion that is based on a first period of time, the second instance of the first user interface includes the first notification; in accordance with a determination that the set of interaction criteria are met and in accordance with a determination that the first set of removal criteria are met, the second instance of the first user interface does not include the first notification; in accordance with a determination that the set of interaction criteria are not met and in accordance with a determination that a second set of removal criteria are not met, the second set of removal criteria including a second criterion that is based on a second period of time that is greater than the first period of time, the second instance of the first user interface includes the first notification; and in accordance with a determination that the set of interaction criteria are not met and in accordance with a determination that the second set of removal criteria are met, the second

instance of the first user interface does not include the first notification.

[0009] In accordance with some embodiments, an electronic device is described. In some embodiments, the electronic device includes: a display device; one or more processors; and memory storing one or more programs configured to be executed by the one or more processors, the one or more programs including instructions for: displaying, via the display device, a first instance of a first user interface including a first notification that, when selected, causes display of a first set of data; and after displaying the first instance of the first user interface, displaying a second instance of the first user interface, where: in accordance with a determination that a set of interaction criteria are met, the set of interaction criteria including a criterion that is met when the first set of data has been displayed, and in accordance with a determination that a first set of removal criteria are not met, the first set of removal criteria including a first criterion that is based on a first period of time, the second instance of the first user interface includes the first notification; in accordance with a determination that the set of interaction criteria are met and in accordance with a determination that the first set of removal criteria are met, the second instance of the first user interface does not include the first notification; in accordance with a determination that the set of interaction criteria are not met and in accordance with a determination that a second set of removal criteria are not met, the second set of removal criteria including a second criterion that is based on a second period of time that is greater than the first period of time, the second instance of the first user interface includes the first notification; and in accordance with a determination that the set of interaction criteria are not met and in accordance with a determination that the second set of removal criteria are met, the second instance of the first user interface does not include the first notification.

[0010] In accordance with some embodiments, an electronic device is described. In some embodiments, the electronic device includes: a display device; means for displaying, via the display device, a first instance of a first user interface including a first notification that, when selected, causes display of a first set of data; and means, after displaying the first instance of the first user interface, for displaying a second instance of the first user interface, where: in accordance with a determination that a set of interaction criteria are met, the set of interaction criteria including a criterion that is met when the first set of data has been displayed, and in accordance with a determination that a first set of removal criteria are not met, the first set of removal criteria including a first criterion that is based on a first period of time, the second instance of the first user interface includes the first notification; in accordance with a determination that the set of interaction criteria are met and in accordance with a determination that the first set of removal criteria are met, the second instance of the first user interface does not include the first notification; in accordance with a determination that the set of interaction criteria are not met and in accordance with a determination that a second set of removal criteria are not met, the second set of removal criteria including a second criterion that is based on a second period of time that is greater than the first period of time, the second instance of the first user interface includes the first notification; and in accordance with a determination that the set of interaction criteria are not met and in accordance with a determination that the second set of removal criteria are met, the second instance of the first user interface does not include the first notification.

[0011] In accordance with some embodiments, a method is described. In some embodiments, the method is performed at an electronic device with a display device. In some embodiments, the method comprises: receiving first health data; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface including: a first region: in accordance with a determination that a type of data corresponding to the first health data has been identified by user input, including a first representation of the first health data; and in accordance with a determination that the type of data corresponding to the first health data has not been identified by user input, not including the representation of the first health data; and a second region: in accordance with a determination that a first set of highlight criteria are met,

including a second representation of the first health data different from the first representation; and in accordance with a determination that the first set of highlight criteria are not met, not including the second representation of the first health data.

[0012] In accordance with some embodiments, a non-transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device with a display device is described. In some embodiments, the one or more programs include instructions for: receiving first health data; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface including: a first region: in accordance with a determination that a type of data corresponding to the first health data has been identified by user input, including a first representation of the first health data; and in accordance with a determination that the type of data corresponding to the first health data has not been identified by user input, not including the representation of the first health data; and a second region: in accordance with a determination that a first set of highlight criteria are met, including a second representation of the first health data different from the first representation; and in accordance with a determination that the first set of highlight criteria are not met, not including the second representation of the first health data.

[0013] In accordance with some embodiments, a transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device with a display device is described. In some embodiments, the one or more programs include instructions for: receiving first health data; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface including: a first region: in accordance with a determination that a type of data corresponding to the first health data has been identified by user input, including a first representation of the first health data; and in accordance with a determination that the type of data corresponding to the first health data has not been identified by user input, not including the representation of the first health data; and a second region: in accordance with a determination that a first set of highlight criteria are met, including a second representation of the first health data different from the first representation; and in accordance with a determination that the first set of highlight criteria are not met, not including the second representation of the first health data.

[0014] In accordance with some embodiments, an electronic device is described. In some embodiments, the electronic device includes: a display device; one or more processors; and memory storing one or more programs configured to be executed by the one or more processors, the one or more programs including instructions for: receiving first health data; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface including: first region: in accordance with a determination that a type of data corresponding to the first health data has been identified by user input, including a first representation of the first health data; and in accordance with a determination that the type of data corresponding to the first health data has not been identified by user input, not including the representation of the first health data; and a second region: in accordance with a determination that a first set of highlight criteria are met, including a second representation of the first health data different from the first representation; and in accordance with a determination that the first set of highlight criteria are not met, not including the second representation of the first health data.

[0015] In accordance with some embodiments, an electronic device is described. In some embodiments, the electronic device includes: a display device; means for receiving first health data; means for receiving a request to display a first user interface; and means, responsive to receiving the request, for displaying, via the display device, the first user interface including: a first region: in accordance with a determination that a type of data corresponding to the first health data has been identified by user input, including a first representation of the first health data; and in accordance with a determination that the type of data corresponding to the first health data has not been identified by user input, not including the representation of the first health data; and a second

region: in accordance with a determination that a first set of highlight criteria are met, including a second representation of the first health data different from the first representation; and in accordance with a determination that the first set of highlight criteria are not met, not including the second representation of the first health data.

[0016] In accordance with some embodiments, a method is described. In some embodiments, the method is performed at an electronic device with a display device. In some embodiments, the method comprises: receiving clinical health record data corresponding to a particular health institution; receiving a request to display a first user interface; and in response to receiving the request, displaying, via the display device, the first user interface including: a first region corresponding to a first type of clinical health record, where the first region includes: in accordance with a determination that a first clinical health record of the first type of clinical health record fails to meet a first set of graphing criteria, a first textual representation for the first clinical health record based on the clinical health record data, where the first user interface does not include a graphical representation for the first clinical health record; and in accordance with a determination that the first clinical health meets the first set of graphing criteria, a first graphical representation for the first clinical health record based on the clinical health record data; and a second region corresponding to a second type of clinical health record, where the second region includes: in accordance with a determination that a second clinical health record of the second type of clinical health record fails to meet the first set of graphing criteria, a second textual representation for the second clinical health record based on the clinical health record data, where the user interface does not include a graphical representation for the second clinical health record; and in accordance with a determination that the second clinical health record meets the first set of graphing criteria, a second graphical representation for the second clinical health record based on the clinical health record data.

[0017] In accordance with some embodiments, a non-transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device with a display device is described. In some embodiments, the one or more programs include instructions for: receiving clinical health record data corresponding to a particular health institution; receiving a request to display a first user interface; and in response to receiving the request, displaying, via the display device, the first user interface including: a first region corresponding to a first type of clinical health record, where the first region includes: in accordance with a determination that a first clinical health record of the first type of clinical health record fails to meet a first set of graphing criteria, a first textual representation for the first clinical health record based on the clinical health record data, where the first user interface does not include a graphical representation for the first clinical health record; and in accordance with a determination that the first clinical health meets the first set of graphing criteria, a first graphical representation for the first clinical health record based on the clinical health record data; and a second region corresponding to a second type of clinical health record, where the second region includes: in accordance with a determination that a second clinical health record of the second type of clinical health record fails to meet the first set of graphing criteria, a second textual representation for the second clinical health record based on the clinical health record data, where the user interface does not include a graphical representation for the second clinical health record; and in accordance with a determination that the second clinical health record meets the first set of graphing criteria, a second graphical representation for the second clinical health record based on the clinical health record data.

[0018] In accordance with some embodiments, a transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device with a display device is described. In some embodiments, the one or more programs include instructions for: receiving clinical health record data corresponding to a particular health institution; receiving a request to display a first user interface; and in response to receiving the

request, displaying, via the display device, the first user interface including: a first region corresponding to a first type of clinical health record, where the first region includes: in accordance with a determination that a first clinical health record of the first type of clinical health record fails to meet a first set of graphing criteria, a first textual representation for the first clinical health record based on the clinical health record data, where the first user interface does not include a graphical representation for the first clinical health record; and in accordance with a determination that the first clinical health meets the first set of graphing criteria, a first graphical representation for the first clinical health record based on the clinical health record data; and a second region corresponding to a second type of clinical health record, where the second region includes: in accordance with a determination that a second clinical health record of the second type of clinical health record fails to meet the first set of graphing criteria, a second textual representation for the second clinical health record based on the clinical health record data, where the user interface does not include a graphical representation for the second clinical health record; and in accordance with a determination that the second clinical health record meets the first set of graphing criteria, a second graphical representation for the second clinical health record based on the clinical health record data.

[0019] In accordance with some embodiments, an electronic device is described. In some embodiments, the electronic device includes: a display device; one or more processors; and memory storing one or more programs configured to be executed by the one or more processors, the one or more programs including instructions for: receiving clinical health record data corresponding to a particular health institution; receiving a request to display a first user interface; and in response to receiving the request, displaying, via the display device, the first user interface including: a first region corresponding to a first type of clinical health record, where the first region includes: in accordance with a determination that a first clinical health record of the first type of clinical health record fails to meet a first set of graphing criteria, a first textual representation for the first clinical health record based on the clinical health record data, where the first user interface does not include a graphical representation for the first clinical health record; and in accordance with a determination that the first clinical health meets the first set of graphing criteria, a first graphical representation for the first clinical health record based on the clinical health record data; and a second region corresponding to a second type of clinical health record, where the second region includes: in accordance with a determination that a second clinical health record of the second type of clinical health record fails to meet the first set of graphing criteria, a second textual representation for the second clinical health record based on the clinical health record data, where the user interface does not include a graphical representation for the second clinical health record; and in accordance with a determination that the second clinical health record meets the first set of graphing criteria, a second graphical representation for the second clinical health record based on the clinical health record data.

[0020] In accordance with some embodiments, an electronic device is described. In some embodiments, the electronic device includes: a display device; means for receiving clinical health record data corresponding to a particular health institution; means for receiving a request to display a first user interface; and means, responsive to receiving the request, for displaying, via the display device, the first user interface including: a first region corresponding to a first type of clinical health record, where the first region includes: in accordance with a determination that a first clinical health record of the first type of clinical health record fails to meet a first set of graphing criteria, a first textual representation for the first clinical health record based on the clinical health record data, where the first user interface does not include a graphical representation for the first clinical health record; and in accordance with a determination that the first clinical health meets the first set of graphing criteria, a first graphical representation for the first clinical health record based on the clinical health record data; and a second region corresponding to a second type of clinical health record, where the second region includes: in accordance with a determination that a second

clinical health record of the second type of clinical health record fails to meet the first set of graphing criteria, a second textual representation for the second clinical health record based on the clinical health record data, where the user interface does not include a graphical representation for the second clinical health record; and in accordance with a determination that the second clinical health record meets the first set of graphing criteria, a second graphical representation for the second clinical health record based on the clinical health record data.

[0021] In accordance with some embodiments, a method is described. In some embodiments, the method is performed at an electronic device with a display device. In some embodiments, the method comprises: receiving clinical health record data, including: first clinical health record data corresponding to a first type of clinical health record; and second clinical health record data corresponding to a second type of clinical health record; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface, including: a first representation, based on the first clinical health record data, for a first clinical health record of the first type of clinical health record; while displaying the first user interface, receiving first user input corresponding to selection of the first representation; in response to receiving the first user input: displaying, via the display device, a second user interface, including: a second representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, where the second representation is different from the first representation; and a third representation, based on the first clinical health record data, for a second clinical health record of the first type of clinical health record, where the third representation is different from the second representation and the second clinical health record of the first type is different from the first clinical health record of the first type; while displaying the second user interface, receiving second user input corresponding to selection of the third representation; and in response to receiving the second user input: displaying, via the display device, a third user interface, including a fourth representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, where the fourth representation is different from the first representation, and where the fourth representation is different from the second representation.

[0022] In accordance with some embodiments, a non-transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device with a display device is described. In some embodiments, the one or more programs include instructions for: receiving clinical health record data, including: first clinical health record data corresponding to a first type of clinical health record; and second clinical health record data corresponding to a second type of clinical health record; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface, including: a first representation, based on the first clinical health record data, for a first clinical health record of the first type of clinical health record; while displaying the first user interface, receiving first user input corresponding to selection of the first representation; in response to receiving the first user input: displaying, via the display device, a second user interface, including: a second representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, where the second representation is different from the first representation; and a third representation, based on the first clinical health record data, for a second clinical health record of the first type of clinical health record, where the third representation is different from the second representation and the second clinical health record of the first type is different from the first clinical health record of the first type; while displaying the second user interface, receiving second user input corresponding to selection of the third representation; and in response to receiving the second user input: displaying, via the display device, a third user interface, including a fourth representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, where the fourth representation is different from the first representation, and where the fourth representation

is different from the second representation.

[0023] In accordance with some embodiments, a transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device with a display device is described. In some embodiments, the one or more programs include instructions for: receiving clinical health record data, including: first clinical health record data corresponding to a first type of clinical health record; and second clinical health record data corresponding to a second type of clinical health record; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface, including: a first representation, based on the first clinical health record data, for a first clinical health record of the first type of clinical health record; while displaying the first user interface, receiving first user input corresponding to selection of the first representation; in response to receiving the first user input: displaying, via the display device, a second user interface, including: a second representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, where the second representation is different from the first representation; and a third representation, based on the first clinical health record data, for a second clinical health record of the first type of clinical health record, where the third representation is different from the second representation and the second clinical health record of the first type is different from the first clinical health record of the first type; while displaying the second user interface, receiving second user input corresponding to selection of the third representation; and in response to receiving the second user input: displaying, via the display device, a third user interface, including a fourth representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, where the fourth representation is different from the first representation, and where the fourth representation is different from the second representation.

[0024] In accordance with some embodiments, an electronic device is described. In some embodiments, the electronic device includes: a display device; one or more processors; and memory storing one or more programs configured to be executed by the one or more processors, the one or more programs including instructions for: receiving clinical health record data, including: first clinical health record data corresponding to a first type of clinical health record; and second clinical health record data corresponding to a second type of clinical health record; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface, including: a first representation, based on the first clinical health record data, for a first clinical health record of the first type of clinical health record; while displaying the first user interface, receiving first user input corresponding to selection of the first representation; in response to receiving the first user input: displaying, via the display device, a second user interface, including: a second representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, where the second representation is different from the first representation; and a third representation, based on the first clinical health record data, for a second clinical health record of the first type of clinical health record, where the third representation is different from the second representation and the second clinical health record of the first type is different from the first clinical health record of the first type; while displaying the second user interface, receiving second user input corresponding to selection of the third representation; and in response to receiving the second user input: displaying, via the display device, a third user interface, including a fourth representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, where the fourth representation is different from the first representation, and where the fourth representation is different from the second representation.

[0025] In accordance with some embodiments, an electronic device is described. In some embodiments, the electronic device includes: a display device; means for receiving clinical health record data, including: first clinical health record data corresponding to a first type of clinical

health record; and second clinical health record data corresponding to a second type of clinical health record; means for receiving a request to display a first user interface; means, responsive to receiving the request, for displaying, via the display device, the first user interface, including: a first representation, based on the first clinical health record data, for a first clinical health record of the first type of clinical health record; means, while displaying the first user interface, for receiving first user input corresponding to selection of the first representation; means, responsive to receiving the first user input, for: displaying, via the display device, a second user interface, including: a second representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, where the second representation is different from the first representation; and a third representation, based on the first clinical health record data, for a second clinical health record of the first type of clinical health record, where the third representation is different from the second representation and the second clinical health record of the first type is different from the first clinical health record of the first type; means, while displaying the second user interface, for receiving second user input corresponding to selection of the third representation; and means, responsive to receiving the second user input, for: displaying, via the display device, a third user interface, including a fourth representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, where the fourth representation is different from the first representation, and where the fourth representation is different from the second representation.

[0026] In accordance with some embodiments, a method is described. In some embodiments, the method is performed at an electronic device with a display device, where the electronic device is associated with a first user account. In some embodiments, the method comprises: receiving a request to display a first user interface; in response to receiving the first request, displaying, via the display device, the first user interface, including: a first portion, including a first category affordance; and a second portion including a first shared affordance corresponding to a second user account; while displaying the first user interface: receiving first user input corresponding to selection of the first category affordance; and receiving second user input corresponding to selection of the first shared affordance; in response to receiving the first user input, displaying, via the display device, a second user interface, including a representation of first health data associated with the first user account for the first category; in response to receiving the second user input, displaying, via the display device, a third user interface, including: a first portion, including: a second category affordance corresponding to health data associated with the second user account for the first category; while displaying the third user interface, receiving third user input corresponding to selection of the second category affordance; and in response to receiving the third user input, displaying, via the display device, a fourth user interface, including a representation of health data associated with the second user account for the first category.

[0027] In some embodiments, a non-transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device, associated with a first user account, with a display device is described. In some embodiments, the one or more programs include instructions for: receiving a request to display a first user interface; in response to receiving the first request, displaying, via the display device, the first user interface, including: a first portion, including a first category affordance; and a second portion including a first shared affordance corresponding to a second user account; while displaying the first user interface: receiving first user input corresponding to selection of the first category affordance; and receiving second user input corresponding to selection of the first shared affordance; in response to receiving the first user input, displaying, via the display device, a second user interface, including a representation of first health data associated with the first user account for the first category; in response to receiving the second user input, displaying, via the display device, a third user interface, including: a first portion, including: a second category affordance corresponding to health data associated with the second user account for the first category; while displaying the third user

interface, receiving third user input corresponding to selection of the second category affordance; and in response to receiving the third user input, displaying, via the display device, a fourth user interface, including a representation of health data associated with the second user account for the first category.

[0028] In some embodiments, a transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device, associated with a first user account, with a display device is described. In some embodiments, the one or more programs include instructions for: receiving a request to display a first user interface; in response to receiving the first request, displaying, via the display device, the first user interface, including: a first portion, including a first category affordance; and a second portion including a first shared affordance corresponding to a second user account; while displaying the first user interface: receiving first user input corresponding to selection of the first category affordance; and receiving second user input corresponding to selection of the first shared affordance; in response to receiving the first user input, displaying, via the display device, a second user interface, including a representation of first health data associated with the first user account for the first category; in response to receiving the second user input, displaying, via the display device, a third user interface, including: a first portion, including: a second category affordance corresponding to health data associated with the second user account for the first category; while displaying the third user interface, receiving third user input corresponding to selection of the second category affordance; and in response to receiving the third user input, displaying, via the display device, a fourth user interface, including a representation of health data associated with the second user account for the first category.

[0029] In accordance with some embodiments, an electronic device associated with a first user account is disclosed. In some embodiments, the electronic device includes: a display device; one or more processors; and memory storing one or more programs configured to be executed by the one or more processors, the one or more programs including instructions for: receiving a request to display a first user interface; in response to receiving the first request, displaying, via the display device, the first user interface, including: a first portion, including a first category affordance; and a second portion including a first shared affordance corresponding to a second user account; while displaying the first user interface: receiving first user input corresponding to selection of the first category affordance; and receiving second user input corresponding to selection of the first shared affordance; in response to receiving the first user input, displaying, via the display device, a second user interface, including a representation of first health data associated with the first user account for the first category; in response to receiving the second user input, displaying, via the display device, a third user interface, including: a first portion, including: a second category affordance corresponding to health data associated with the second user account for the first category; while displaying the third user interface, receiving third user input corresponding to selection of the second category affordance; and in response to receiving the third user input, displaying, via the display device, a fourth user interface, including a representation of health data associated with the second user account for the first category.

[0030] In accordance with some embodiments, an electronic device associated with a first user account is disclosed. In some embodiments, the electronic device includes: a display device; means for receiving a request to display a first user interface; means, responsive to receiving the first request, for displaying, via the display device, the first user interface, including: a first portion, including a first category affordance; and a second portion including a first shared affordance corresponding to a second user account; means, while displaying the first user interface, for: receiving first user input corresponding to selection of the first category affordance; and receiving second user input corresponding to selection of the first shared affordance; means, responsive to receiving the first user input, for displaying, via the display device, a second user interface, including a representation of first health data associated with the first user account for the first

category; means, responsive to receiving the second user input, for displaying, via the display device, a third user interface, including: a first portion, including: a second category affordance corresponding to health data associated with the second user account for the first category; means, while displaying the third user interface, for receiving third user input corresponding to selection of the second category affordance; and means, in response to receiving the third user input, for displaying, via the display device, a fourth user interface, including a representation of health data associated with the second user account for the first category.

[0031] In accordance with some embodiments, a method is described. In some embodiments, the method is performed at a first electronic device with a display device. In some embodiments, the method comprises: receiving a request to share health data associated with the first electronic device; in response to receiving the request, displaying, via the display device at a first time, a first notification, including a first affordance that, when selected, initiates a process for sharing of health data, associated with the first electronic device, with a second electronic device; while displaying the notification, receiving a first user input corresponding to selection of the first affordance; in response to receiving the first user input, initiating a process for sharing of health data, associated with the first electronic device, with the second electronic device; and after receiving the first user input: sharing health data associated with the first electronic device with the second electronic device; and displaying, via the display device at a second time, a second notification corresponding to the sharing of health data, the second notification including a second affordance that, when selected, initiates a process to end sharing of health data, associated with the first electronic device, with the second electronic device.

[0032] In accordance with some embodiments, a non-transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of a first electronic device with a display device is described. In some embodiments, the one or more programs include instructions for: receiving a request to share health data associated with the first electronic device; in response to receiving the request, displaying, via the display device at a first time, a first notification, including a first affordance that, when selected, initiates a process for sharing of health data, associated with the first electronic device, with a second electronic device; while displaying the notification, receiving a first user input corresponding to selection of the first affordance; in response to receiving the first user input, initiating a process for sharing of health data, associated with the first electronic device, with the second electronic device; and after receiving the first user input: sharing health data associated with the first electronic device with the second electronic device; and displaying, via the display device at a second time, a second notification corresponding to the sharing of health data, the second notification including a second affordance that, when selected, initiates a process to end sharing of health data, associated with the first electronic device, with the second electronic device.

[0033] In accordance with some embodiments, a transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of a first electronic device with a display device is described. In some embodiments, the one or more programs include instructions for: receiving a request to share health data associated with the first electronic device; in response to receiving the request, displaying, via the display device at a first time, a first notification, including a first affordance that, when selected, initiates a process for sharing of health data, associated with the first electronic device, with a second electronic device; while displaying the notification, receiving a first user input corresponding to selection of the first affordance; in response to receiving the first user input, initiating a process for sharing of health data, associated with the first electronic device, with the second electronic device; and after receiving the first user input: sharing health data associated with the first electronic device with the second electronic device; and displaying, via the display device at a second time, a second notification corresponding to the sharing of health data, the second notification including a second affordance that, when selected, initiates a process to end sharing of health data, associated with the

first electronic device, with the second electronic device.

[0034] In accordance with some embodiments, a first electronic device is described. In some embodiments, the first electronic device includes: a display device; one or more processors; and memory storing one or more programs configured to be executed by the one or more processors, the one or more programs including instructions for: receiving a request to share health data associated with the first electronic device; in response to receiving the request, displaying, via the display device at a first time, a first notification, including a first affordance that, when selected, initiates a process for sharing of health data, associated with the first electronic device, with a second electronic device; while displaying the notification, receiving a first user input corresponding to selection of the first affordance; in response to receiving the first user input, initiating a process for sharing of health data, associated with the first electronic device, with the second electronic device; and after receiving the first user input: sharing health data associated with the first electronic device with the second electronic device; and displaying, via the display device at a second time, a second notification corresponding to the sharing of health data, the second notification including a second affordance that, when selected, initiates a process to end sharing of health data, associated with the first electronic device, with the second electronic device.

[0035] In accordance with some embodiments, a first electronic device is described. In some embodiments, the first electronic device includes: a display device; means for receiving a request to share health data associated with the first electronic device; means, responsive to receiving the request, for displaying, via the display device at a first time, a first notification, including a first affordance that, when selected, initiates a process for sharing of health data, associated with the first electronic device, with a second electronic device; means, while displaying the notification, for receiving a first user input corresponding to selection of the first affordance; means, responsive to receiving the first user input, for initiating a process for sharing of health data, associated with the first electronic device, with the second electronic device; and means, after receiving the first user input, for: sharing health data associated with the first electronic device with the second electronic device; and displaying, via the display device at a second time, a second notification corresponding to the sharing of health data, the second notification including a second affordance that, when selected, initiates a process to end sharing of health data, associated with the first electronic device, with the second electronic device.

[0036] Executable instructions for performing these functions are, optionally, included in a non-transitory computer-readable storage medium or other computer program product configured for execution by one or more processors. Executable instructions for performing these functions are, optionally, included in a transitory computer-readable storage medium or other computer program product configured for execution by one or more processors.

[0037] Thus, devices are provided with faster, more efficient methods and interfaces for managing health information and functions, thereby increasing the effectiveness, efficiency, and user satisfaction with such devices. Such methods and interfaces may complement or replace other methods for managing health information and functions.

Description

DESCRIPTION OF THE FIGURES

[0038] For a better understanding of the various described embodiments, reference should be made to the Description of Embodiments below, in conjunction with the following drawings in which like reference numerals refer to corresponding parts throughout the figures.

[0039] FIG. **1**A is a block diagram illustrating a portable multifunction device with a touch-sensitive display in accordance with some embodiments.

[0040] FIG. **1**B is a block diagram illustrating exemplary components for event handling in

accordance with some embodiments.

[0041] FIG. **2** illustrates a portable multifunction device having a touch screen in accordance with some embodiments.

[0042] FIG. **3** is a block diagram of an exemplary multifunction device with a display and a touch-sensitive surface in accordance with some embodiments.

[0043] FIG. **4**A illustrates an exemplary user interface for a menu of applications on a portable multifunction device in accordance with some embodiments.

[0044] FIG. **4**B illustrates an exemplary user interface for a multifunction device with a touch-sensitive surface that is separate from the display in accordance with some embodiments.

[0045] FIG. **5**A illustrates a personal electronic device in accordance with some embodiments.

[0046] FIG. **5**B is a block diagram illustrating a personal electronic device in accordance with some embodiments.

[0047] FIGS. **5**C-**5**D illustrate exemplary components of a personal electronic device having a touch-sensitive display and intensity sensors in accordance with some embodiments.

[0048] FIGS. **5**E-**5**H illustrate exemplary components and user interfaces of a personal electronic device in accordance with some embodiments.

[0049] FIGS. **6**A-**6**Z illustrate exemplary user interfaces related to viewing health data using an electronic device, in accordance with some embodiments.

[0050] FIGS. **7**A-**7**B are a flow diagram illustrating a method for managing notifications using an electronic device, in accordance with some embodiments.

[0051] FIGS. **8**A-**8**B are a flow diagram illustrating a method for managing display of health-related information using an electronic device, in accordance with some embodiments.

[0052] FIGS. **9**A-**9**B are a flow diagram illustrating a method for managing display of clinical health record representations using an electronic device, in accordance with some embodiments.

[0053] FIGS. **10**A-**10**B are a flow diagram illustrating a method for managing display of clinical health record representations using an electronic device, in accordance with some embodiments.

[0054] FIGS. **11**A-**11**C are a flow diagram illustrating a method for managing display of health-related information for various user accounts using an electronic device, in accordance with some embodiments.

[0055] FIGS. **12**AA-**12**I illustrate exemplary user interfaces related to viewing health data using an electronic device, in accordance with some embodiments.

[0056] FIGS. **13**A-**13**G illustrate exemplary user interfaces related to sharing health data using an electronic device, in accordance with some embodiments.

[0057] FIGS. **14**A-**14**B are a flow diagram illustrating methods related to sharing health data, in accordance with some embodiments.

[0058] FIGS. **15**A-**15**F illustrate exemplary user interfaces related to viewing health data using an electronic device, in accordance with some embodiments.

DESCRIPTION OF EMBODIMENTS

[0059] The following description sets forth exemplary methods, parameters, and the like. It should be recognized, however, that such description is not intended as a limitation on the scope of the present disclosure but is instead provided as a description of exemplary embodiments.

[0060] There is a need for electronic devices that provide efficient methods and interfaces for managing health information and functions. For example, it is advantageous to provide timely health-related notifications and cease to display unhelpful notifications. For another example, it is advantageous to emphasize certain health-related information for the user. Such techniques can reduce the cognitive burden on a user who manage health information and functions, thereby enhancing productivity. Further, such techniques can reduce processor and battery power otherwise wasted on redundant user inputs.

[0061] Below, FIGS. **1**A-**1**B, **2**, **3**, **4**A-**4**B, and **5**A-**5**H provide a description of exemplary devices for performing the techniques for managing event notifications. FIGS. **6**A-**6**Z illustrate exemplary

user interfaces related to viewing health data using an electronic device, in accordance with some embodiments. FIGS. **7**A-**7**B are a flow diagram illustrating a method for managing notifications using an electronic device, in accordance with some embodiments. FIGS. **8**A-**8**B are a flow diagram illustrating a method for managing display of health-related information using an electronic device, in accordance with some embodiments. FIGS. **9**A-**9**B are a flow diagram illustrating a method for managing display of clinical health record representations using an electronic device, in accordance with some embodiments. FIGS. **10**A-**10**B are a flow diagram illustrating a method for managing display of clinical health record representations using an electronic device, in accordance with some embodiments. FIGS. **11**A-**11**C are a flow diagram illustrating a method for managing display of health-related information for various user accounts using an electronic device, in accordance with some embodiments. The user interfaces in FIGS. **6**A-**6**Z are used to illustrate the processes described below, including the processes in FIGS. **7**A-**7**B, **8**A-**8**B, **9**A-**9**B, **10**A-**10**B, **11**A-**11**C. FIGS. **12**AA-**12**I illustrate exemplary user interfaces related to viewing health data using an electronic device, in accordance with some embodiments. FIGS. **13**A-**13**G illustrate exemplary user interfaces related to sharing health data using an electronic device, in accordance with some embodiments. FIGS. **14**A-**14**B are a flow diagram illustrating methods related to sharing health data, in accordance with some embodiments. The user interfaces in FIGS. **13**A-**13**G are used to illustrate the processes described below, including the processes in FIGS. **14**A-**14**B. FIGS. **15**A-**15**F illustrate exemplary user interfaces related to viewing health data using an electronic device, in accordance with some embodiments.

[0062] Although the following description uses terms "first," "second," etc. to describe various elements, these elements should not be limited by the terms. These terms are only used to distinguish one element from another. For example, a first touch could be termed a second touch, and, similarly, a second touch could be termed a first touch, without departing from the scope of the various described embodiments. The first touch and the second touch are both touches, but they are not the same touch.

[0063] The terminology used in the description of the various described embodiments herein is for the purpose of describing particular embodiments only and is not intended to be limiting. As used in the description of the various described embodiments and the appended claims, the singular forms "a," "an," and "the" are intended to include the plural forms as well, unless the context clearly indicates otherwise. It will also be understood that the term "and/or" as used herein refers to and encompasses any and all possible combinations of one or more of the associated listed items. It will be further understood that the terms "includes," "including," "comprises," and/or "comprising," when used in this specification, specify the presence of stated features, integers, steps, operations, elements, and/or components, but do not preclude the presence or addition of one or more other features, integers, steps, operations, elements, components, and/or groups thereof.

[0064] The term "if" is, optionally, construed to mean "when" or "upon" or "in response to determining" or "in response to detecting," depending on the context. Similarly, the phrase "if it is determined" or "if [a stated condition or event] is detected" is, optionally, construed to mean "upon determining" or "in response to determining" or "upon detecting [the stated condition or event]" or "in response to detecting [the stated condition or event]," depending on the context.

[0065] Embodiments of electronic devices, user interfaces for such devices, and associated processes for using such devices are described. In some embodiments, the device is a portable communications device, such as a mobile telephone, that also contains other functions, such as PDA and/or music player functions. Exemplary embodiments of portable multifunction devices include, without limitation, the iPhone®, iPod Touch®, and iPad® devices from Apple Inc. of Cupertino, California. Other portable electronic devices, such as laptops or tablet computers with touch-sensitive surfaces (e.g., touch screen displays and/or touchpads), are, optionally, used. It should also be understood that, in some embodiments, the device is not a portable communications device, but is a desktop computer with a touch-sensitive surface (e.g., a touch screen display and/or

a touchpad).

[0066] In the discussion that follows, an electronic device that includes a display and a touch-sensitive surface is described. It should be understood, however, that the electronic device optionally includes one or more other physical user-interface devices, such as a physical keyboard, a mouse, and/or a joystick.

[0067] The device typically supports a variety of applications, such as one or more of the following: a drawing application, a presentation application, a word processing application, a website creation application, a disk authoring application, a spreadsheet application, a gaming application, a telephone application, a video conferencing application, an e-mail application, an instant messaging application, a workout support application, a photo management application, a digital camera application, a digital video camera application, a web browsing application, a digital music player application, and/or a digital video player application.

[0068] The various applications that are executed on the device optionally use at least one common physical user-interface device, such as the touch-sensitive surface. One or more functions of the touch-sensitive surface as well as corresponding information displayed on the device are, optionally, adjusted and/or varied from one application to the next and/or within a respective application. In this way, a common physical architecture (such as the touch-sensitive surface) of the device optionally supports the variety of applications with user interfaces that are intuitive and transparent to the user.

[0069] Attention is now directed toward embodiments of portable devices with touch-sensitive displays. FIG. **1**A is a block diagram illustrating portable multifunction device **100** with touch-sensitive display system **112** in accordance with some embodiments. Touch-sensitive display **112** is sometimes called a "touch screen" for convenience and is sometimes known as or called a "touch-sensitive display system." Device **100** includes memory **102** (which optionally includes one or more computer-readable storage media), memory controller **122**, one or more processing units (CPUs) **120**, peripherals interface **118**, RF circuitry **108**, audio circuitry **110**, speaker **111**, microphone **113**, input/output (I/O) subsystem **106**, other input control devices **116**, and external port **124**. Device **100** optionally includes one or more optical sensors **164**. Device **100** optionally includes one or more contact intensity sensors **165** for detecting intensity of contacts on device **100** (e.g., a touch-sensitive surface such as touch-sensitive display system **112** of device **100**). Device **100** optionally includes one or more tactile output generators **167** for generating tactile outputs on device **100** (e.g., generating tactile outputs on a touch-sensitive surface such as touch-sensitive display system **112** of device **100** or touchpad **355** of device **300**). These components optionally communicate over one or more communication buses or signal lines **103**.

[0070] As used in the specification and claims, the term "intensity" of a contact on a touch-sensitive surface refers to the force or pressure (force per unit area) of a contact (e.g., a finger contact) on the touch-sensitive surface, or to a substitute (proxy) for the force or pressure of a contact on the touch-sensitive surface. The intensity of a contact has a range of values that includes at least four distinct values and more typically includes hundreds of distinct values (e.g., at least 256). Intensity of a contact is, optionally, determined (or measured) using various approaches and various sensors or combinations of sensors. For example, one or more force sensors underneath or adjacent to the touch-sensitive surface are, optionally, used to measure force at various points on the touch-sensitive surface. In some implementations, force measurements from multiple force sensors are combined (e.g., a weighted average) to determine an estimated force of a contact. Similarly, a pressure-sensitive tip of a stylus is, optionally, used to determine a pressure of the stylus on the touch-sensitive surface. Alternatively, the size of the contact area detected on the touch-sensitive surface and/or changes thereto, the capacitance of the touch-sensitive surface proximate to the contact and/or changes thereto, and/or the resistance of the touch-sensitive surface proximate to the contact and/or changes thereto are, optionally, used as a substitute for the force or pressure of the contact on the touch-sensitive surface. In some implementations, the substitute

measurements for contact force or pressure are used directly to determine whether an intensity threshold has been exceeded (e.g., the intensity threshold is described in units corresponding to the substitute measurements). In some implementations, the substitute measurements for contact force or pressure are converted to an estimated force or pressure, and the estimated force or pressure is used to determine whether an intensity threshold has been exceeded (e.g., the intensity threshold is a pressure threshold measured in units of pressure). Using the intensity of a contact as an attribute of a user input allows for user access to additional device functionality that may otherwise not be accessible by the user on a reduced-size device with limited real estate for displaying affordances (e.g., on a touch-sensitive display) and/or receiving user input (e.g., via a touch-sensitive display, a touch-sensitive surface, or a physical/mechanical control such as a knob or a button).

[0071] As used in the specification and claims, the term "tactile output" refers to physical displacement of a device relative to a previous position of the device, physical displacement of a component (e.g., a touch-sensitive surface) of a device relative to another component (e.g., housing) of the device, or displacement of the component relative to a center of mass of the device that will be detected by a user with the user's sense of touch. For example, in situations where the device or the component of the device is in contact with a surface of a user that is sensitive to touch (e.g., a finger, palm, or other part of a user's hand), the tactile output generated by the physical displacement will be interpreted by the user as a tactile sensation corresponding to a perceived change in physical characteristics of the device or the component of the device. For example, movement of a touch-sensitive surface (e.g., a touch-sensitive display or trackpad) is, optionally, interpreted by the user as a "down click" or "up click" of a physical actuator button. In some cases, a user will feel a tactile sensation such as an "down click" or "up click" even when there is no movement of a physical actuator button associated with the touch-sensitive surface that is physically pressed (e.g., displaced) by the user's movements. As another example, movement of the touch-sensitive surface is, optionally, interpreted or sensed by the user as "roughness" of the touch-sensitive surface, even when there is no change in smoothness of the touch-sensitive surface. While such interpretations of touch by a user will be subject to the individualized sensory perceptions of the user, there are many sensory perceptions of touch that are common to a large majority of users. Thus, when a tactile output is described as corresponding to a particular sensory perception of a user (e.g., an "up click," a "down click," "roughness"), unless otherwise stated, the generated tactile output corresponds to physical displacement of the device or a component thereof that will generate the described sensory perception for a typical (or average) user.

[0072] It should be appreciated that device **100** is only one example of a portable multifunction device, and that device **100** optionally has more or fewer components than shown, optionally combines two or more components, or optionally has a different configuration or arrangement of the components. The various components shown in FIG. **1**A are implemented in hardware, software, or a combination of both hardware and software, including one or more signal processing and/or application-specific integrated circuits.

[0073] Memory **102** optionally includes high-speed random access memory and optionally also includes non-volatile memory, such as one or more magnetic disk storage devices, flash memory devices, or other non-volatile solid-state memory devices. Memory controller **122** optionally controls access to memory **102** by other components of device **100**.

[0074] Peripherals interface **118** can be used to couple input and output peripherals of the device to CPU **120** and memory **102**. The one or more processors **120** run or execute various software programs (such as computer programs (e.g., including instructions)) and/or sets of instructions stored in memory **102** to perform various functions for device **100** and to process data. In some embodiments, peripherals interface **118**, CPU **120**, and memory controller **122** are, optionally, implemented on a single chip, such as chip **104**. In some other embodiments, they are, optionally, implemented on separate chips.

[0075] RF (radio frequency) circuitry **108** receives and sends RF signals, also called

electromagnetic signals. RF circuitry **108** converts electrical signals to/from electromagnetic signals and communicates with communications networks and other communications devices via the electromagnetic signals. RF circuitry **108** optionally includes well-known circuitry for performing these functions, including but not limited to an antenna system, an RF transceiver, one or more amplifiers, a tuner, one or more oscillators, a digital signal processor, a CODEC chipset, a subscriber identity module (SIM) card, memory, and so forth. RF circuitry **108** optionally communicates with networks, such as the Internet, also referred to as the World Wide Web (WWW), an intranet and/or a wireless network, such as a cellular telephone network, a wireless local area network (LAN) and/or a metropolitan area network (MAN), and other devices by wireless communication. The RF circuitry **108** optionally includes well-known circuitry for detecting near field communication (NFC) fields, such as by a short-range communication radio. The wireless communication optionally uses any of a plurality of communications standards, protocols, and technologies, including but not limited to Global System for Mobile Communications (GSM), Enhanced Data GSM Environment (EDGE), high-speed downlink packet access (HSDPA), high-speed uplink packet access (HSUPA), Evolution, Data-Only (EV-DO), HSPA, HSPA+, Dual-Cell HSPA (DC-HSPDA), long term evolution (LTE), near field communication (NFC), wideband code division multiple access (W-CDMA), code division multiple access (CDMA), time division multiple access (TDMA), Bluetooth, Bluetooth Low Energy (BTLE), Wireless Fidelity (Wi-Fi) (e.g., IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, and/or IEEE 802.11ac), voice over Internet Protocol (VoIP), Wi-MAX, a protocol for e-mail (e.g., Internet message access protocol (IMAP) and/or post office protocol (POP)), instant messaging (e.g., extensible messaging and presence protocol (XMPP), Session Initiation Protocol for Instant Messaging and Presence Leveraging Extensions (SIMPLE), Instant Messaging and Presence Service (IMPS)), and/or Short Message Service (SMS), or any other suitable communication protocol, including communication protocols not yet developed as of the filing date of this document.

[0076] Audio circuitry **110**, speaker **111**, and microphone **113** provide an audio interface between a user and device **100**. Audio circuitry **110** receives audio data from peripherals interface **118**, converts the audio data to an electrical signal, and transmits the electrical signal to speaker **111**. Speaker **111** converts the electrical signal to human-audible sound waves. Audio circuitry **110** also receives electrical signals converted by microphone **113** from sound waves. Audio circuitry **110** converts the electrical signal to audio data and transmits the audio data to peripherals interface **118** for processing. Audio data is, optionally, retrieved from and/or transmitted to memory **102** and/or RF circuitry **108** by peripherals interface **118**. In some embodiments, audio circuitry **110** also includes a headset jack (e.g., **212**, FIG. **2**). The headset jack provides an interface between audio circuitry **110** and removable audio input/output peripherals, such as output-only headphones or a headset with both output (e.g., a headphone for one or both ears) and input (e.g., a microphone).

[0077] I/O subsystem **106** couples input/output peripherals on device **100**, such as touch screen **112** and other input control devices **116**, to peripherals interface **118**. I/O subsystem **106** optionally includes display controller **156**, optical sensor controller **158**, depth camera controller **169**, intensity sensor controller **159**, haptic feedback controller **161**, and one or more input controllers **160** for other input or control devices. The one or more input controllers **160** receive/send electrical signals from/to other input control devices **116**. The other input control devices **116** optionally include physical buttons (e.g., push buttons, rocker buttons, etc.), dials, slider switches, joysticks, click wheels, and so forth. In some embodiments, input controller(s) **160** are, optionally, coupled to any (or none) of the following: a keyboard, an infrared port, a USB port, and a pointer device such as a mouse. The one or more buttons (e.g., **208**, FIG. **2**) optionally include an up/down button for volume control of speaker **111** and/or microphone **113**. The one or more buttons optionally include a push button (e.g., **206**, FIG. **2**).

[0078] A quick press of the push button optionally disengages a lock of touch screen **112** or

optionally begins a process that uses gestures on the touch screen to unlock the device, as described in U.S. patent application Ser. No. 11/322,549, "Unlocking a Device by Performing Gestures on an Unlock Image," filed Dec. 23, 2005, U.S. Pat. No. 7,657,849, which is hereby incorporated by reference in its entirety. A longer press of the push button (e.g., **206**) optionally turns power to device **100** on or off. The functionality of one or more of the buttons are, optionally, user-customizable. Touch screen **112** is used to implement virtual or soft buttons and one or more soft keyboards.

[0079] Touch-sensitive display **112** provides an input interface and an output interface between the device and a user. Display controller **156** receives and/or sends electrical signals from/to touch screen **112**. Touch screen **112** displays visual output to the user. The visual output optionally includes graphics, text, icons, video, and any combination thereof (collectively termed "graphics"). In some embodiments, some or all of the visual output optionally corresponds to user-interface objects.

[0080] Touch screen **112** has a touch-sensitive surface, sensor, or set of sensors that accepts input from the user based on haptic and/or tactile contact. Touch screen **112** and display controller **156** (along with any associated modules and/or sets of instructions in memory **102**) detect contact (and any movement or breaking of the contact) on touch screen **112** and convert the detected contact into interaction with user-interface objects (e.g., one or more soft keys, icons, web pages, or images) that are displayed on touch screen **112**. In an exemplary embodiment, a point of contact between touch screen **112** and the user corresponds to a finger of the user.

[0081] Touch screen **112** optionally uses LCD (liquid crystal display) technology, LPD (light emitting polymer display) technology, or LED (light emitting diode) technology, although other display technologies are used in other embodiments. Touch screen **112** and display controller **156** optionally detect contact and any movement or breaking thereof using any of a plurality of touch sensing technologies now known or later developed, including but not limited to capacitive, resistive, infrared, and surface acoustic wave technologies, as well as other proximity sensor arrays or other elements for determining one or more points of contact with touch screen **112**. In an exemplary embodiment, projected mutual capacitance sensing technology is used, such as that found in the iPhone® and iPod Touch® from Apple Inc. of Cupertino, California.

[0082] A touch-sensitive display in some embodiments of touch screen **112** is, optionally, analogous to the multi-touch sensitive touchpads described in the following U.S. Pat. No. 6,323,846 (Westerman et al.), U.S. Pat. No. 6,570,557 (Westerman et al.), and/or U.S. Pat. No. 6,677,932 (Westerman), and/or U.S. Patent Publication 2002/0015024A1, each of which is hereby incorporated by reference in its entirety. However, touch screen **112** displays visual output from device **100**, whereas touch-sensitive touchpads do not provide visual output.

[0083] A touch-sensitive display in some embodiments of touch screen **112** is described in the following applications: (1) U.S. patent application Ser. No. 11/381,313, "Multipoint Touch Surface Controller," filed May 2, 2006; (2) U.S. patent application Ser. No. 10/840,862, "Multipoint Touchscreen," filed May 6, 2004; (3) U.S. patent application Ser. No. 10/903,964, "Gestures For Touch Sensitive Input Devices," filed Jul. 30, 2004; (4) U.S. patent application Ser. No. 11/048,264, "Gestures For Touch Sensitive Input Devices," filed Jan. 31, 2005; (5) U.S. patent application Ser. No. 11/038,590, "Mode-Based Graphical User Interfaces For Touch Sensitive Input Devices," filed Jan. 18, 2005; (6) U.S. patent application Ser. No. 11/228,758, "Virtual Input Device Placement On A Touch Screen User Interface," filed Sep. 16, 2005; (7) U.S. patent application Ser. No. 11/228,700, "Operation Of A Computer With A Touch Screen Interface," filed Sep. 16, 2005; (8) U.S. patent application Ser. No. 11/228,737, "Activating Virtual Keys Of A Touch-Screen Virtual Keyboard," filed Sep. 16, 2005; and (9) U.S. patent application Ser. No. 11/367,749, "Multi-Functional Hand-Held Device," filed Mar. 3, 2006. All of these applications are incorporated by reference herein in their entirety.

[0084] Touch screen **112** optionally has a video resolution in excess of 100 dpi. In some

embodiments, the touch screen has a video resolution of approximately 160 dpi. The user optionally makes contact with touch screen **112** using any suitable object or appendage, such as a stylus, a finger, and so forth. In some embodiments, the user interface is designed to work primarily with finger-based contacts and gestures, which can be less precise than stylus-based input due to the larger area of contact of a finger on the touch screen. In some embodiments, the device translates the rough finger-based input into a precise pointer/cursor position or command for performing the actions desired by the user.

[0085] In some embodiments, in addition to the touch screen, device **100** optionally includes a touchpad for activating or deactivating particular functions. In some embodiments, the touchpad is a touch-sensitive area of the device that, unlike the touch screen, does not display visual output. The touchpad is, optionally, a touch-sensitive surface that is separate from touch screen **112** or an extension of the touch-sensitive surface formed by the touch screen.

[0086] Device **100** also includes power system **162** for powering the various components. Power system **162** optionally includes a power management system, one or more power sources (e.g., battery, alternating current (AC)), a recharging system, a power failure detection circuit, a power converter or inverter, a power status indicator (e.g., a light-emitting diode (LED)) and any other components associated with the generation, management and distribution of power in portable devices.

[0087] Device **100** optionally also includes one or more optical sensors **164**. FIG. **1**A shows an optical sensor coupled to optical sensor controller **158** in I/O subsystem **106**. Optical sensor **164** optionally includes charge-coupled device (CCD) or complementary metal-oxide semiconductor (CMOS) phototransistors. Optical sensor **164** receives light from the environment, projected through one or more lenses, and converts the light to data representing an image. In conjunction with imaging module **143** (also called a camera module), optical sensor **164** optionally captures still images or video. In some embodiments, an optical sensor is located on the back of device **100**, opposite touch screen display **112** on the front of the device so that the touch screen display is enabled for use as a viewfinder for still and/or video image acquisition. In some embodiments, an optical sensor is located on the front of the device so that the user's image is, optionally, obtained for video conferencing while the user views the other video conference participants on the touch screen display. In some embodiments, the position of optical sensor **164** can be changed by the user (e.g., by rotating the lens and the sensor in the device housing) so that a single optical sensor **164** is used along with the touch screen display for both video conferencing and still and/or video image acquisition.

[0088] Device **100** optionally also includes one or more depth camera sensors **175**. FIG. **1**A shows a depth camera sensor coupled to depth camera controller **169** in I/O subsystem **106**. Depth camera sensor **175** receives data from the environment to create a three dimensional model of an object (e.g., a face) within a scene from a viewpoint (e.g., a depth camera sensor). In some embodiments, in conjunction with imaging module **143** (also called a camera module), depth camera sensor **175** is optionally used to determine a depth map of different portions of an image captured by the imaging module **143**. In some embodiments, a depth camera sensor is located on the front of device **100** so that the user's image with depth information is, optionally, obtained for video conferencing while the user views the other video conference participants on the touch screen display and to capture selfies with depth map data. In some embodiments, the depth camera sensor **175** is located on the back of device, or on the back and the front of the device **100**. In some embodiments, the position of depth camera sensor **175** can be changed by the user (e.g., by rotating the lens and the sensor in the device housing) so that a depth camera sensor **175** is used along with the touch screen display for both video conferencing and still and/or video image acquisition.

[0089] Device **100** optionally also includes one or more contact intensity sensors **165**. FIG. **1**A shows a contact intensity sensor coupled to intensity sensor controller **159** in I/O subsystem **106**. Contact intensity sensor **165** optionally includes one or more piezoresistive strain gauges,

capacitive force sensors, electric force sensors, piezoelectric force sensors, optical force sensors, capacitive touch-sensitive surfaces, or other intensity sensors (e.g., sensors used to measure the force (or pressure) of a contact on a touch-sensitive surface). Contact intensity sensor **165** receives contact intensity information (e.g., pressure information or a proxy for pressure information) from the environment. In some embodiments, at least one contact intensity sensor is collocated with, or proximate to, a touch-sensitive surface (e.g., touch-sensitive display system **112**). In some embodiments, at least one contact intensity sensor is located on the back of device **100**, opposite touch screen display **112**, which is located on the front of device **100**.

[0090] Device **100** optionally also includes one or more proximity sensors **166**. FIG. **1**A shows proximity sensor **166** coupled to peripherals interface **118**. Alternately, proximity sensor **166** is, optionally, coupled to input controller **160** in I/O subsystem **106**. Proximity sensor **166** optionally performs as described in U.S. patent application Ser. No. 11/241,839, "Proximity Detector In Handheld Device"; Ser. No. 11/240,788, "Proximity Detector In Handheld Device"; Ser. No. 11/620,702, "Using Ambient Light Sensor To Augment Proximity Sensor Output"; Ser. No. 11/586,862, "Automated Response To And Sensing Of User Activity In Portable Devices"; and Ser. No. 11/638,251, "Methods And Systems For Automatic Configuration Of Peripherals," which are hereby incorporated by reference in their entirety. In some embodiments, the proximity sensor turns off and disables touch screen **112** when the multifunction device is placed near the user's ear (e.g., when the user is making a phone call).

[0091] Device **100** optionally also includes one or more tactile output generators **167**. FIG. **1**A shows a tactile output generator coupled to haptic feedback controller **161** in I/O subsystem **106**. Tactile output generator **167** optionally includes one or more electroacoustic devices such as speakers or other audio components and/or electromechanical devices that convert energy into linear motion such as a motor, solenoid, electroactive polymer, piezoelectric actuator, electrostatic actuator, or other tactile output generating component (e.g., a component that converts electrical signals into tactile outputs on the device). Contact intensity sensor **165** receives tactile feedback generation instructions from haptic feedback module **133** and generates tactile outputs on device **100** that are capable of being sensed by a user of device **100**. In some embodiments, at least one tactile output generator is collocated with, or proximate to, a touch-sensitive surface (e.g., touch-sensitive display system **112**) and, optionally, generates a tactile output by moving the touch-sensitive surface vertically (e.g., in/out of a surface of device **100**) or laterally (e.g., back and forth in the same plane as a surface of device **100**). In some embodiments, at least one tactile output generator sensor is located on the back of device **100**, opposite touch screen display **112**, which is located on the front of device **100**.

[0092] Device **100** optionally also includes one or more accelerometers **168**. FIG. **1**A shows accelerometer **168** coupled to peripherals interface **118**. Alternately, accelerometer **168** is, optionally, coupled to an input controller **160** in I/O subsystem **106**. Accelerometer **168** optionally performs as described in U.S. Patent Publication No. 20050190059, "Acceleration-based Theft Detection System for Portable Electronic Devices," and U.S. Patent Publication No. 20060017692, "Methods And Apparatuses For Operating A Portable Device Based On An Accelerometer," both of which are incorporated by reference herein in their entirety. In some embodiments, information is displayed on the touch screen display in a portrait view or a landscape view based on an analysis of data received from the one or more accelerometers. Device **100** optionally includes, in addition to accelerometer(s) **168**, a magnetometer and a GPS (or GLONASS or other global navigation system) receiver for obtaining information concerning the location and orientation (e.g., portrait or landscape) of device **100**.

[0093] In some embodiments, the software components stored in memory **102** include operating system **126**, communication module (or set of instructions) **128**, contact/motion module (or set of instructions) **130**, graphics module (or set of instructions) **132**, text input module (or set of instructions) **134**, Global Positioning System (GPS) module (or set of instructions) **135**, and

applications (or sets of instructions) **136**. Furthermore, in some embodiments, memory **102** (FIG. **1**A) or **370** (FIG. **3**) stores device/global internal state **157**, as shown in FIGS. **1**A and **3**. Device/global internal state **157** includes one or more of: active application state, indicating which applications, if any, are currently active; display state, indicating what applications, views or other information occupy various regions of touch screen display **112**; sensor state, including information obtained from the device's various sensors and input control devices **116**; and location information concerning the device's location and/or attitude.

[0094] Operating system **126** (e.g., Darwin, RTXC, LINUX, UNIX, OS X, iOS, WINDOWS, or an embedded operating system such as VxWorks) includes various software components and/or drivers for controlling and managing general system tasks (e.g., memory management, storage device control, power management, etc.) and facilitates communication between various hardware and software components.

[0095] Communication module **128** facilitates communication with other devices over one or more external ports **124** and also includes various software components for handling data received by RF circuitry **108** and/or external port **124**. External port **124** (e.g., Universal Serial Bus (USB), FIREWIRE, etc.) is adapted for coupling directly to other devices or indirectly over a network (e.g., the Internet, wireless LAN, etc.). In some embodiments, the external port is a multi-pin (e.g., 30-pin) connector that is the same as, or similar to and/or compatible with, the 30-pin connector used on iPod® (trademark of Apple Inc.) devices.

[0096] Contact/motion module **130** optionally detects contact with touch screen **112** (in conjunction with display controller **156**) and other touch-sensitive devices (e.g., a touchpad or physical click wheel). Contact/motion module **130** includes various software components for performing various operations related to detection of contact, such as determining if contact has occurred (e.g., detecting a finger-down event), determining an intensity of the contact (e.g., the force or pressure of the contact or a substitute for the force or pressure of the contact), determining if there is movement of the contact and tracking the movement across the touch-sensitive surface (e.g., detecting one or more finger-dragging events), and determining if the contact has ceased (e.g., detecting a finger-up event or a break in contact). Contact/motion module **130** receives contact data from the touch-sensitive surface. Determining movement of the point of contact, which is represented by a series of contact data, optionally includes determining speed (magnitude), velocity (magnitude and direction), and/or an acceleration (a change in magnitude and/or direction) of the point of contact. These operations are, optionally, applied to single contacts (e.g., one finger contacts) or to multiple simultaneous contacts (e.g., "multitouch"/multiple finger contacts). In some embodiments, contact/motion module **130** and display controller **156** detect contact on a touchpad.

[0097] In some embodiments, contact/motion module **130** uses a set of one or more intensity thresholds to determine whether an operation has been performed by a user (e.g., to determine whether a user has "clicked" on an icon). In some embodiments, at least a subset of the intensity thresholds are determined in accordance with software parameters (e.g., the intensity thresholds are not determined by the activation thresholds of particular physical actuators and can be adjusted without changing the physical hardware of device **100**). For example, a mouse "click" threshold of a trackpad or touch screen display can be set to any of a large range of predefined threshold values without changing the trackpad or touch screen display hardware. Additionally, in some implementations, a user of the device is provided with software settings for adjusting one or more of the set of intensity thresholds (e.g., by adjusting individual intensity thresholds and/or by adjusting a plurality of intensity thresholds at once with a system-level click "intensity" parameter).

[0098] Contact/motion module **130** optionally detects a gesture input by a user. Different gestures on the touch-sensitive surface have different contact patterns (e.g., different motions, timings, and/or intensities of detected contacts). Thus, a gesture is, optionally, detected by detecting a particular contact pattern. For example, detecting a finger tap gesture includes detecting a finger-

down event followed by detecting a finger-up (liftoff) event at the same position (or substantially the same position) as the finger-down event (e.g., at the position of an icon). As another example, detecting a finger swipe gesture on the touch-sensitive surface includes detecting a finger-down event followed by detecting one or more finger-dragging events, and subsequently followed by detecting a finger-up (liftoff) event.

[0099] Graphics module **132** includes various known software components for rendering and displaying graphics on touch screen **112** or other display, including components for changing the visual impact (e.g., brightness, transparency, saturation, contrast, or other visual property) of graphics that are displayed. As used herein, the term "graphics" includes any object that can be displayed to a user, including, without limitation, text, web pages, icons (such as user-interface objects including soft keys), digital images, videos, animations, and the like.

[0100] In some embodiments, graphics module **132** stores data representing graphics to be used. Each graphic is, optionally, assigned a corresponding code. Graphics module **132** receives, from applications etc., one or more codes specifying graphics to be displayed along with, if necessary, coordinate data and other graphic property data, and then generates screen image data to output to display controller **156**.

[0101] Haptic feedback module **133** includes various software components for generating instructions used by tactile output generator(s) **167** to produce tactile outputs at one or more locations on device **100** in response to user interactions with device **100**.

[0102] Text input module **134**, which is, optionally, a component of graphics module **132**, provides soft keyboards for entering text in various applications (e.g., contacts module **137**, e-mail client module **140**, IM module **141**, browser module **147**, and any other application that needs text input).

[0103] GPS module **135** determines the location of the device and provides this information for use in various applications (e.g., to telephone module **138** for use in location-based dialing; to camera module **143** as picture/video metadata; and to applications that provide location-based services such as weather widgets, local yellow page widgets, and map/navigation widgets).

[0104] Applications **136** optionally include the following modules (or sets of instructions), or a subset or superset thereof: [0105] Contacts module **137** (sometimes called an address book or contact list); [0106] Telephone module **138**; [0107] Video conference module **139**; [0108] E-mail client module **140**; [0109] Instant messaging (IM) module **141**; [0110] Workout support module **142**; [0111] Camera module **143** for still and/or video images; [0112] Image management module **144**; [0113] Video player module; [0114] Music player module; [0115] Browser module **147**; [0116] Calendar module **148**; [0117] Widget modules **149**, which optionally include one or more of: weather widget **149-1**, stocks widget **149-2**, calculator widget **149-3**, alarm clock widget **149-4**, dictionary widget **149-5**, and other widgets obtained by the user, as well as user-created widgets **149-6**; [0118] Widget creator module **150** for making user-created widgets **149-6**; [0119] Search module **151**; [0120] Video and music player module **152**, which merges video player module and music player module; [0121] Notes module **153**; [0122] Map module **154**; and/or [0123] Online video module **155**.

[0124] Examples of other applications **136** that are, optionally, stored in memory **102** include other word processing applications, other image editing applications, drawing applications, presentation applications, JAVA-enabled applications, encryption, digital rights management, voice recognition, and voice replication.

[0125] In conjunction with touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, and text input module **134**, contacts module **137** are, optionally, used to manage an address book or contact list (e.g., stored in application internal state **192** of contacts module **137** in memory **102** or memory **370**), including: adding name(s) to the address book; deleting name(s) from the address book; associating telephone number(s), e-mail address(es), physical address(es) or other information with a name; associating an image with a name; categorizing and sorting names; providing telephone numbers or e-mail addresses to initiate and/or

facilitate communications by telephone module **138**, video conference module **139**, e-mail client module **140**, or IM module **141**; and so forth.

[0126] In conjunction with RF circuitry **108**, audio circuitry **110**, speaker **111**, microphone **113**, touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, and text input module **134**, telephone module **138** are optionally, used to enter a sequence of characters corresponding to a telephone number, access one or more telephone numbers in contacts module **137**, modify a telephone number that has been entered, dial a respective telephone number, conduct a conversation, and disconnect or hang up when the conversation is completed. As noted above, the wireless communication optionally uses any of a plurality of communications standards, protocols, and technologies.

[0127] In conjunction with RF circuitry **108**, audio circuitry **110**, speaker **111**, microphone **113**, touch screen **112**, display controller **156**, optical sensor **164**, optical sensor controller **158**, contact/motion module **130**, graphics module **132**, text input module **134**, contacts module **137**, and telephone module **138**, video conference module **139** includes executable instructions to initiate, conduct, and terminate a video conference between a user and one or more other participants in accordance with user instructions.

[0128] In conjunction with RF circuitry **108**, touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, and text input module **134**, e-mail client module **140** includes executable instructions to create, send, receive, and manage e-mail in response to user instructions. In conjunction with image management module **144**, e-mail client module **140** makes it very easy to create and send e-mails with still or video images taken with camera module **143**.

[0129] In conjunction with RF circuitry **108**, touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, and text input module **134**, the instant messaging module **141** includes executable instructions to enter a sequence of characters corresponding to an instant message, to modify previously entered characters, to transmit a respective instant message (for example, using a Short Message Service (SMS) or Multimedia Message Service (MMS) protocol for telephony-based instant messages or using XMPP, SIMPLE, or IMPS for Internet-based instant messages), to receive instant messages, and to view received instant messages. In some embodiments, transmitted and/or received instant messages optionally include graphics, photos, audio files, video files and/or other attachments as are supported in an MMS and/or an Enhanced Messaging Service (EMS). As used herein, "instant messaging" refers to both telephony-based messages (e.g., messages sent using SMS or MMS) and Internet-based messages (e.g., messages sent using XMPP, SIMPLE, or IMPS).

[0130] In conjunction with RF circuitry **108**, touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, text input module **134**, GPS module **135**, map module **154**, and music player module, workout support module **142** includes executable instructions to create workouts (e.g., with time, distance, and/or calorie burning goals); communicate with workout sensors (sports devices); receive workout sensor data; calibrate sensors used to monitor a workout; select and play music for a workout; and display, store, and transmit workout data.

[0131] In conjunction with touch screen **112**, display controller **156**, optical sensor(s) **164**, optical sensor controller **158**, contact/motion module **130**, graphics module **132**, and image management module **144**, camera module **143** includes executable instructions to capture still images or video (including a video stream) and store them into memory **102**, modify characteristics of a still image or video, or delete a still image or video from memory **102**.

[0132] In conjunction with touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, text input module **134**, and camera module **143**, image management module **144** includes executable instructions to arrange, modify (e.g., edit), or otherwise manipulate, label, delete, present (e.g., in a digital slide show or album), and store still and/or video images.

[0133] In conjunction with RF circuitry **108**, touch screen **112**, display controller **156**,

contact/motion module **130**, graphics module **132**, and text input module **134**, browser module **147** includes executable instructions to browse the Internet in accordance with user instructions, including searching, linking to, receiving, and displaying web pages or portions thereof, as well as attachments and other files linked to web pages.

[0134] In conjunction with RF circuitry **108**, touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, text input module **134**, e-mail client module **140**, and browser module **147**, calendar module **148** includes executable instructions to create, display, modify, and store calendars and data associated with calendars (e.g., calendar entries, to-do lists, etc.) in accordance with user instructions.

[0135] In conjunction with RF circuitry **108**, touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, text input module **134**, and browser module **147**, widget modules **149** are mini-applications that are, optionally, downloaded and used by a user (e.g., weather widget **149-1**, stocks widget **149-2**, calculator widget **149-3**, alarm clock widget **149-4**, and dictionary widget **149-5**) or created by the user (e.g., user-created widget **149-6**). In some embodiments, a widget includes an HTML (Hypertext Markup Language) file, a CSS (Cascading Style Sheets) file, and a JavaScript® file. In some embodiments, a widget includes an XML (Extensible Markup Language) file and a JavaScript® file (e.g., Yahoo!® Widgets).

[0136] In conjunction with RF circuitry **108**, touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, text input module **134**, and browser module **147**, the widget creator module **150** are, optionally, used by a user to create widgets (e.g., turning a user-specified portion of a web page into a widget).

[0137] In conjunction with touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, and text input module **134**, search module **151** includes executable instructions to search for text, music, sound, image, video, and/or other files in memory **102** that match one or more search criteria (e.g., one or more user-specified search terms) in accordance with user instructions.

[0138] In conjunction with touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, audio circuitry **110**, speaker **111**, RF circuitry **108**, and browser module **147**, video and music player module **152** includes executable instructions that allow the user to download and play back recorded music and other sound files stored in one or more file formats, such as MP3 or AAC files, and executable instructions to display, present, or otherwise play back videos (e.g., on touch screen **112** or on an external, connected display via external port **124**). In some embodiments, device **100** optionally includes the functionality of an MP3 player, such as an iPod (trademark of Apple Inc.).

[0139] In conjunction with touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, and text input module **134**, notes module **153** includes executable instructions to create and manage notes, to-do lists, and the like in accordance with user instructions.

[0140] In conjunction with RF circuitry **108**, touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, text input module **134**, GPS module **135**, and browser module **147**, map module **154** are, optionally, used to receive, display, modify, and store maps and data associated with maps (e.g., driving directions, data on stores and other points of interest at or near a particular location, and other location-based data) in accordance with user instructions.

[0141] In conjunction with touch screen **112**, display controller **156**, contact/motion module **130**, graphics module **132**, audio circuitry **110**, speaker **111**, RF circuitry **108**, text input module **134**, e-mail client module **140**, and browser module **147**, online video module **155** includes instructions that allow the user to access, browse, receive (e.g., by streaming and/or download), play back (e.g., on the touch screen or on an external, connected display via external port **124**), send an e-mail with a link to a particular online video, and otherwise manage online videos in one or more file formats,

such as H.264. In some embodiments, instant messaging module **141**, rather than e-mail client module **140**, is used to send a link to a particular online video. Additional description of the online video application can be found in U.S. Provisional Patent Application No. 60/936,562, "Portable Multifunction Device, Method, and Graphical User Interface for Playing Online Videos," filed Jun. 20, 2007, and U.S. patent application Ser. No. 11/968,067, "Portable Multifunction Device, Method, and Graphical User Interface for Playing Online Videos," filed Dec. 31, 2007, the contents of which are hereby incorporated by reference in their entirety.

[0142] Each of the above-identified modules and applications corresponds to a set of executable instructions for performing one or more functions described above and the methods described in this application (e.g., the computer-implemented methods and other information processing methods described herein). These modules (e.g., sets of instructions) need not be implemented as separate software programs (such as computer programs (e.g., including instructions)), procedures, or modules, and thus various subsets of these modules are, optionally, combined or otherwise rearranged in various embodiments. For example, video player module is, optionally, combined with music player module into a single module (e.g., video and music player module **152**, FIG. **1**A). In some embodiments, memory **102** optionally stores a subset of the modules and data structures identified above. Furthermore, memory **102** optionally stores additional modules and data structures not described above.

[0143] In some embodiments, device **100** is a device where operation of a predefined set of functions on the device is performed exclusively through a touch screen and/or a touchpad. By using a touch screen and/or a touchpad as the primary input control device for operation of device **100**, the number of physical input control devices (such as push buttons, dials, and the like) on device **100** is, optionally, reduced.

[0144] The predefined set of functions that are performed exclusively through a touch screen and/or a touchpad optionally include navigation between user interfaces. In some embodiments, the touchpad, when touched by the user, navigates device **100** to a main, home, or root menu from any user interface that is displayed on device **100**. In such embodiments, a "menu button" is implemented using a touchpad. In some other embodiments, the menu button is a physical push button or other physical input control device instead of a touchpad.

[0145] FIG. **1**B is a block diagram illustrating exemplary components for event handling in accordance with some embodiments. In some embodiments, memory **102** (FIG. **1**A) or **370** (FIG. **3**) includes event sorter **170** (e.g., in operating system **126**) and a respective application **136-1** (e.g., any of the aforementioned applications **137-151**, **155**, **380-390**).

[0146] Event sorter **170** receives event information and determines the application **136-1** and application view **191** of application **136-1** to which to deliver the event information. Event sorter **170** includes event monitor **171** and event dispatcher module **174**. In some embodiments, application **136-1** includes application internal state **192**, which indicates the current application view(s) displayed on touch-sensitive display **112** when the application is active or executing. In some embodiments, device/global internal state **157** is used by event sorter **170** to determine which application(s) is (are) currently active, and application internal state **192** is used by event sorter **170** to determine application views **191** to which to deliver event information.

[0147] In some embodiments, application internal state **192** includes additional information, such as one or more of: resume information to be used when application **136-1** resumes execution, user interface state information that indicates information being displayed or that is ready for display by application **136-1**, a state queue for enabling the user to go back to a prior state or view of application **136-1**, and a redo/undo queue of previous actions taken by the user.

[0148] Event monitor **171** receives event information from peripherals interface **118**. Event information includes information about a sub-event (e.g., a user touch on touch-sensitive display **112**, as part of a multi-touch gesture). Peripherals interface **118** transmits information it receives from I/O subsystem **106** or a sensor, such as proximity sensor **166**, accelerometer(s) **168**, and/or

microphone **113** (through audio circuitry **110**). Information that peripherals interface **118** receives from I/O subsystem **106** includes information from touch-sensitive display **112** or a touch-sensitive surface.

[0149] In some embodiments, event monitor **171** sends requests to the peripherals interface **118** at predetermined intervals. In response, peripherals interface **118** transmits event information. In other embodiments, peripherals interface **118** transmits event information only when there is a significant event (e.g., receiving an input above a predetermined noise threshold and/or for more than a predetermined duration).

[0150] In some embodiments, event sorter **170** also includes a hit view determination module **172** and/or an active event recognizer determination module **173**.

[0151] Hit view determination module **172** provides software procedures for determining where a sub-event has taken place within one or more views when touch-sensitive display **112** displays more than one view. Views are made up of controls and other elements that a user can see on the display.

[0152] Another aspect of the user interface associated with an application is a set of views, sometimes herein called application views or user interface windows, in which information is displayed and touch-based gestures occur. The application views (of a respective application) in which a touch is detected optionally correspond to programmatic levels within a programmatic or view hierarchy of the application. For example, the lowest level view in which a touch is detected is, optionally, called the hit view, and the set of events that are recognized as proper inputs are, optionally, determined based, at least in part, on the hit view of the initial touch that begins a touch-based gesture.

[0153] Hit view determination module **172** receives information related to sub-events of a touch-based gesture. When an application has multiple views organized in a hierarchy, hit view determination module **172** identifies a hit view as the lowest view in the hierarchy which should handle the sub-event. In most circumstances, the hit view is the lowest level view in which an initiating sub-event occurs (e.g., the first sub-event in the sequence of sub-events that form an event or potential event). Once the hit view is identified by the hit view determination module **172**, the hit view typically receives all sub-events related to the same touch or input source for which it was identified as the hit view.

[0154] Active event recognizer determination module **173** determines which view or views within a view hierarchy should receive a particular sequence of sub-events. In some embodiments, active event recognizer determination module **173** determines that only the hit view should receive a particular sequence of sub-events. In other embodiments, active event recognizer determination module **173** determines that all views that include the physical location of a sub-event are actively involved views, and therefore determines that all actively involved views should receive a particular sequence of sub-events. In other embodiments, even if touch sub-events were entirely confined to the area associated with one particular view, views higher in the hierarchy would still remain as actively involved views.

[0155] Event dispatcher module **174** dispatches the event information to an event recognizer (e.g., event recognizer **180**). In embodiments including active event recognizer determination module **173**, event dispatcher module **174** delivers the event information to an event recognizer determined by active event recognizer determination module **173**. In some embodiments, event dispatcher module **174** stores in an event queue the event information, which is retrieved by a respective event receiver **182**.

[0156] In some embodiments, operating system **126** includes event sorter **170**. Alternatively, application **136-1** includes event sorter **170**. In yet other embodiments, event sorter **170** is a stand-alone module, or a part of another module stored in memory **102**, such as contact/motion module **130**.

[0157] In some embodiments, application **136-1** includes a plurality of event handlers **190** and one

or more application views **191**, each of which includes instructions for handling touch events that occur within a respective view of the application's user interface. Each application view **191** of the application **136-1** includes one or more event recognizers **180**. Typically, a respective application view **191** includes a plurality of event recognizers **180**. In other embodiments, one or more of event recognizers **180** are part of a separate module, such as a user interface kit or a higher level object from which application **136-1** inherits methods and other properties. In some embodiments, a respective event handler **190** includes one or more of: data updater **176**, object updater **177**, GUI updater **178**, and/or event data **179** received from event sorter **170**. Event handler **190** optionally utilizes or calls data updater **176**, object updater **177**, or GUI updater **178** to update the application internal state **192**. Alternatively, one or more of the application views **191** include one or more respective event handlers **190**. Also, in some embodiments, one or more of data updater **176**, object updater **177**, and GUI updater **178** are included in a respective application view **191**.

[0158] A respective event recognizer **180** receives event information (e.g., event data **179**) from event sorter **170** and identifies an event from the event information. Event recognizer **180** includes event receiver **182** and event comparator **184**. In some embodiments, event recognizer **180** also includes at least a subset of: metadata **183**, and event delivery instructions **188** (which optionally include sub-event delivery instructions).

[0159] Event receiver **182** receives event information from event sorter **170**. The event information includes information about a sub-event, for example, a touch or a touch movement. Depending on the sub-event, the event information also includes additional information, such as location of the sub-event. When the sub-event concerns motion of a touch, the event information optionally also includes speed and direction of the sub-event. In some embodiments, events include rotation of the device from one orientation to another (e.g., from a portrait orientation to a landscape orientation, or vice versa), and the event information includes corresponding information about the current orientation (also called device attitude) of the device.

[0160] Event comparator **184** compares the event information to predefined event or sub-event definitions and, based on the comparison, determines an event or sub-event, or determines or updates the state of an event or sub-event. In some embodiments, event comparator **184** includes event definitions **186**. Event definitions **186** contain definitions of events (e.g., predefined sequences of sub-events), for example, event **1** (**187-1**), event **2** (**187-2**), and others. In some embodiments, sub-events in an event (e.g., **187-1** and/or **187-2**) include, for example, touch begin, touch end, touch movement, touch cancellation, and multiple touching. In one example, the definition for event **1** (**187-1**) is a double tap on a displayed object. The double tap, for example, comprises a first touch (touch begin) on the displayed object for a predetermined phase, a first liftoff (touch end) for a predetermined phase, a second touch (touch begin) on the displayed object for a predetermined phase, and a second liftoff (touch end) for a predetermined phase. In another example, the definition for event **2** (**187-2**) is a dragging on a displayed object. The dragging, for example, comprises a touch (or contact) on the displayed object for a predetermined phase, a movement of the touch across touch-sensitive display **112**, and liftoff of the touch (touch end). In some embodiments, the event also includes information for one or more associated event handlers **190**.

[0161] In some embodiments, event definitions **186** include a definition of an event for a respective user-interface object. In some embodiments, event comparator **184** performs a hit test to determine which user-interface object is associated with a sub-event. For example, in an application view in which three user-interface objects are displayed on touch-sensitive display **112**, when a touch is detected on touch-sensitive display **112**, event comparator **184** performs a hit test to determine which of the three user-interface objects is associated with the touch (sub-event). If each displayed object is associated with a respective event handler **190**, the event comparator uses the result of the hit test to determine which event handler **190** should be activated. For example, event comparator **184** selects an event handler associated with the sub-event and the object triggering the hit test.

[0162] In some embodiments, the definition for a respective event (**187**) also includes delayed actions that delay delivery of the event information until after it has been determined whether the sequence of sub-events does or does not correspond to the event recognizer's event type.

[0163] When a respective event recognizer **180** determines that the series of sub-events do not match any of the events in event definitions **186**, the respective event recognizer **180** enters an event impossible, event failed, or event ended state, after which it disregards subsequent sub-events of the touch-based gesture. In this situation, other event recognizers, if any, that remain active for the hit view continue to track and process sub-events of an ongoing touch-based gesture.

[0164] In some embodiments, a respective event recognizer **180** includes metadata **183** with configurable properties, flags, and/or lists that indicate how the event delivery system should perform sub-event delivery to actively involved event recognizers. In some embodiments, metadata **183** includes configurable properties, flags, and/or lists that indicate how event recognizers interact, or are enabled to interact, with one another. In some embodiments, metadata **183** includes configurable properties, flags, and/or lists that indicate whether sub-events are delivered to varying levels in the view or programmatic hierarchy.

[0165] In some embodiments, a respective event recognizer **180** activates event handler **190** associated with an event when one or more particular sub-events of an event are recognized. In some embodiments, a respective event recognizer **180** delivers event information associated with the event to event handler **190**. Activating an event handler **190** is distinct from sending (and deferred sending) sub-events to a respective hit view. In some embodiments, event recognizer **180** throws a flag associated with the recognized event, and event handler **190** associated with the flag catches the flag and performs a predefined process.

[0166] In some embodiments, event delivery instructions **188** include sub-event delivery instructions that deliver event information about a sub-event without activating an event handler. Instead, the sub-event delivery instructions deliver event information to event handlers associated with the series of sub-events or to actively involved views. Event handlers associated with the series of sub-events or with actively involved views receive the event information and perform a predetermined process.

[0167] In some embodiments, data updater **176** creates and updates data used in application **136-1**. For example, data updater **176** updates the telephone number used in contacts module **137**, or stores a video file used in video player module. In some embodiments, object updater **177** creates and updates objects used in application **136-1**. For example, object updater **177** creates a new user-interface object or updates the position of a user-interface object. GUI updater **178** updates the GUI. For example, GUI updater **178** prepares display information and sends it to graphics module **132** for display on a touch-sensitive display.

[0168] In some embodiments, event handler(s) **190** includes or has access to data updater **176**, object updater **177**, and GUI updater **178**. In some embodiments, data updater **176**, object updater **177**, and GUI updater **178** are included in a single module of a respective application **136-1** or application view **191**. In other embodiments, they are included in two or more software modules.

[0169] It shall be understood that the foregoing discussion regarding event handling of user touches on touch-sensitive displays also applies to other forms of user inputs to operate multifunction devices **100** with input devices, not all of which are initiated on touch screens. For example, mouse movement and mouse button presses, optionally coordinated with single or multiple keyboard presses or holds; contact movements such as taps, drags, scrolls, etc. on touchpads; pen stylus inputs; movement of the device; oral instructions; detected eye movements; biometric inputs; and/or any combination thereof are optionally utilized as inputs corresponding to sub-events which define an event to be recognized.

[0170] FIG. **2** illustrates a portable multifunction device **100** having a touch screen **112** in accordance with some embodiments. The touch screen optionally displays one or more graphics within user interface (UI) **200**. In this embodiment, as well as others described below, a user is

enabled to select one or more of the graphics by making a gesture on the graphics, for example, with one or more fingers **202** (not drawn to scale in the figure) or one or more styluses **203** (not drawn to scale in the figure). In some embodiments, selection of one or more graphics occurs when the user breaks contact with the one or more graphics. In some embodiments, the gesture optionally includes one or more taps, one or more swipes (from left to right, right to left, upward and/or downward), and/or a rolling of a finger (from right to left, left to right, upward and/or downward) that has made contact with device **100**. In some implementations or circumstances, inadvertent contact with a graphic does not select the graphic. For example, a swipe gesture that sweeps over an application icon optionally does not select the corresponding application when the gesture corresponding to selection is a tap.

[0171] Device **100** optionally also include one or more physical buttons, such as "home" or menu button **204**. As described previously, menu button **204** is, optionally, used to navigate to any application **136** in a set of applications that are, optionally, executed on device **100**. Alternatively, in some embodiments, the menu button is implemented as a soft key in a GUI displayed on touch screen **112**.

[0172] In some embodiments, device **100** includes touch screen **112**, menu button **204**, push button **206** for powering the device on/off and locking the device, volume adjustment button(s) **208**, subscriber identity module (SIM) card slot **210**, headset jack **212**, and docking/charging external port **124**. Push button **206** is, optionally, used to turn the power on/off on the device by depressing the button and holding the button in the depressed state for a predefined time interval; to lock the device by depressing the button and releasing the button before the predefined time interval has elapsed; and/or to unlock the device or initiate an unlock process. In an alternative embodiment, device **100** also accepts verbal input for activation or deactivation of some functions through microphone **113**. Device **100** also, optionally, includes one or more contact intensity sensors **165** for detecting intensity of contacts on touch screen **112** and/or one or more tactile output generators **167** for generating tactile outputs for a user of device **100**.

[0173] FIG. **3** is a block diagram of an exemplary multifunction device with a display and a touch-sensitive surface in accordance with some embodiments. Device **300** need not be portable. In some embodiments, device **300** is a laptop computer, a desktop computer, a tablet computer, a multimedia player device, a navigation device, an educational device (such as a child's learning toy), a gaming system, or a control device (e.g., a home or industrial controller). Device **300** typically includes one or more processing units (CPUs) **310**, one or more network or other communications interfaces **360**, memory **370**, and one or more communication buses **320** for interconnecting these components. Communication buses **320** optionally include circuitry (sometimes called a chipset) that interconnects and controls communications between system components. Device **300** includes input/output (I/O) interface **330** comprising display **340**, which is typically a touch screen display. I/O interface **330** also optionally includes a keyboard and/or mouse (or other pointing device) **350** and touchpad **355**, tactile output generator **357** for generating tactile outputs on device **300** (e.g., similar to tactile output generator(s) **167** described above with reference to FIG. **1**A), sensors **359** (e.g., optical, acceleration, proximity, touch-sensitive, and/or contact intensity sensors similar to contact intensity sensor(s) **165** described above with reference to FIG. **1**A). Memory **370** includes high-speed random access memory, such as DRAM, SRAM, DDR RAM, or other random access solid state memory devices; and optionally includes non-volatile memory, such as one or more magnetic disk storage devices, optical disk storage devices, flash memory devices, or other non-volatile solid state storage devices. Memory **370** optionally includes one or more storage devices remotely located from CPU(s) **310**. In some embodiments, memory **370** stores programs, modules, and data structures analogous to the programs, modules, and data structures stored in memory **102** of portable multifunction device **100** (FIG. **1**A), or a subset thereof. Furthermore, memory **370** optionally stores additional programs, modules, and data structures not present in memory **102** of portable multifunction device **100**. For example, memory

370 of device **300** optionally stores drawing module **380**, presentation module **382**, word processing module **384**, website creation module **386**, disk authoring module **388**, and/or spreadsheet module **390**, while memory **102** of portable multifunction device **100** (FIG. **1**A) optionally does not store these modules.

[0174] Each of the above-identified elements in FIG. **3** is, optionally, stored in one or more of the previously mentioned memory devices. Each of the above-identified modules corresponds to a set of instructions for performing a function described above. The above-identified modules or computer programs (e.g., sets of instructions or including instructions) need not be implemented as separate software programs (such as computer programs (e.g., including instructions)), procedures, or modules, and thus various subsets of these modules are, optionally, combined or otherwise rearranged in various embodiments. In some embodiments, memory **370** optionally stores a subset of the modules and data structures identified above. Furthermore, memory **370** optionally stores additional modules and data structures not described above.

[0175] Attention is now directed towards embodiments of user interfaces that are, optionally, implemented on, for example, portable multifunction device **100**.

[0176] FIG. **4**A illustrates an exemplary user interface for a menu of applications on portable multifunction device **100** in accordance with some embodiments. Similar user interfaces are, optionally, implemented on device **300**. In some embodiments, user interface **400** includes the following elements, or a subset or superset thereof: [0177] Signal strength indicator(s) **402** for wireless communication(s), such as cellular and Wi-Fi signals; [0178] Time **404**; [0179] Bluetooth indicator **405**; [0180] Battery status indicator **406**; [0181] Tray **408** with icons for frequently used applications, such as: [0182] Icon **416** for telephone module **138**, labeled "Phone," which optionally includes an indicator **414** of the number of missed calls or voicemail messages; [0183] Icon **418** for e-mail client module **140**, labeled "Mail," which optionally includes an indicator **410** of the number of unread e-mails; [0184] Icon **420** for browser module **147**, labeled "Browser;" and [0185] Icon **422** for video and music player module **152**, also referred to as iPod (trademark of Apple Inc.) module **152**, labeled "iPod;" and [0186] Icons for other applications, such as: [0187] Icon **424** for IM module **141**, labeled "Messages;" [0188] Icon **426** for calendar module **148**, labeled "Calendar;" [0189] Icon **428** for image management module **144**, labeled "Photos;" [0190] Icon **430** for camera module **143**, labeled "Camera;" [0191] Icon **432** for online video module **155**, labeled "Online Video;" [0192] Icon **434** for stocks widget **149-2**, labeled "Stocks;" [0193] Icon **436** for map module **154**, labeled "Maps;" [0194] Icon **438** for weather widget **149-1**, labeled "Weather;" [0195] Icon **440** for alarm clock widget **149-4**, labeled "Clock;" [0196] Icon **442** for workout support module **142**, labeled "Workout Support;" [0197] Icon **444** for notes module **153**, labeled "Notes;" and [0198] Icon **446** for a settings application or module, labeled "Settings," which provides access to settings for device **100** and its various applications **136**.

[0199] It should be noted that the icon labels illustrated in FIG. **4**A are merely exemplary. For example, icon **422** for video and music player module **152** is labeled "Music" or "Music Player." Other labels are, optionally, used for various application icons. In some embodiments, a label for a respective application icon includes a name of an application corresponding to the respective application icon. In some embodiments, a label for a particular application icon is distinct from a name of an application corresponding to the particular application icon.

[0200] FIG. **4**B illustrates an exemplary user interface on a device (e.g., device **300**, FIG. **3**) with a touch-sensitive surface **451** (e.g., a tablet or touchpad **355**, FIG. **3**) that is separate from the display **450** (e.g., touch screen display **112**). Device **300** also, optionally, includes one or more contact intensity sensors (e.g., one or more of sensors **359**) for detecting intensity of contacts on touch-sensitive surface **451** and/or one or more tactile output generators **357** for generating tactile outputs for a user of device **300**.

[0201] Although some of the examples that follow will be given with reference to inputs on touch screen display **112** (where the touch-sensitive surface and the display are combined), in some

embodiments, the device detects inputs on a touch-sensitive surface that is separate from the display, as shown in FIG. **4**B. In some embodiments, the touch-sensitive surface (e.g., touch-sensitive surface **451** in FIG. **4**B) has a primary axis (e.g., **452** in FIG. **4**B) that corresponds to a primary axis (e.g., **453** in FIG. **4**B) on the display (e.g., display **450**). In accordance with these embodiments, the device detects contacts (e.g., contact **460** and contact **462** in FIG. **4**B) with the touch-sensitive surface **451** at locations that correspond to respective locations on the display (e.g., in FIG. **4**B, contact **460** corresponds to **468** and contact **462** corresponds to **470**). In this way, user inputs (e.g., contacts **460** and **462**, and movements thereof) detected by the device on the touch-sensitive surface (e.g., touch-sensitive surface **451** in FIG. **4**B) are used by the device to manipulate the user interface on the display (e.g., display **450** in FIG. **4**B) of the multifunction device when the touch-sensitive surface is separate from the display. It should be understood that similar methods are, optionally, used for other user interfaces described herein.

[0202] Additionally, while the following examples are given primarily with reference to finger inputs (e.g., finger contacts, finger tap gestures, finger swipe gestures), it should be understood that, in some embodiments, one or more of the finger inputs are replaced with input from another input device (e.g., a mouse-based input or stylus input). For example, a swipe gesture is, optionally, replaced with a mouse click (e.g., instead of a contact) followed by movement of the cursor along the path of the swipe (e.g., instead of movement of the contact). As another example, a tap gesture is, optionally, replaced with a mouse click while the cursor is located over the location of the tap gesture (e.g., instead of detection of the contact followed by ceasing to detect the contact). Similarly, when multiple user inputs are simultaneously detected, it should be understood that multiple computer mice are, optionally, used simultaneously, or a mouse and finger contacts are, optionally, used simultaneously.

[0203] FIG. **5**A illustrates exemplary personal electronic device **500**. Device **500** includes body **502**. In some embodiments, device **500** can include some or all of the features described with respect to devices **100** and **300** (e.g., FIGS. **1**A-**4**B). In some embodiments, device **500** has touch-sensitive display screen **504**, hereafter touch screen **504**. Alternatively, or in addition to touch screen **504**, device **500** has a display and a touch-sensitive surface. As with devices **100** and **300**, in some embodiments, touch screen **504** (or the touch-sensitive surface) optionally includes one or more intensity sensors for detecting intensity of contacts (e.g., touches) being applied. The one or more intensity sensors of touch screen **504** (or the touch-sensitive surface) can provide output data that represents the intensity of touches. The user interface of device **500** can respond to touches based on their intensity, meaning that touches of different intensities can invoke different user interface operations on device **500**.

[0204] Exemplary techniques for detecting and processing touch intensity are found, for example, in related applications: International Patent Application Serial No. PCT/US2013/040061, titled "Device, Method, and Graphical User Interface for Displaying User Interface Objects Corresponding to an Application," filed May 8, 2013, published as WIPO Publication No. WO/2013/169849, and International Patent Application Serial No. PCT/US2013/069483, titled "Device, Method, and Graphical User Interface for Transitioning Between Touch Input to Display Output Relationships," filed Nov. 11, 2013, published as WIPO Publication No. WO/2014/105276, each of which is hereby incorporated by reference in their entirety.

[0205] In some embodiments, device **500** has one or more input mechanisms **506** and **508**. Input mechanisms **506** and **508**, if included, can be physical. Examples of physical input mechanisms include push buttons and rotatable mechanisms. In some embodiments, device **500** has one or more attachment mechanisms. Such attachment mechanisms, if included, can permit attachment of device **500** with, for example, hats, eyewear, earrings, necklaces, shirts, jackets, bracelets, watch straps, chains, trousers, belts, shoes, purses, backpacks, and so forth. These attachment mechanisms permit device **500** to be worn by a user.

[0206] FIG. **5**B depicts exemplary personal electronic device **500**. In some embodiments, device

500 can include some or all of the components described with respect to FIGS. **1**A, **1**B, and **3**. Device **500** has bus **512** that operatively couples I/O section **514** with one or more computer processors **516** and memory **518**. I/O section **514** can be connected to display screen **504**, which can have touch-sensitive component **522** and, optionally, intensity sensor **524** (e.g., contact intensity sensor). In addition, I/O section **514** can be connected with communication unit **530** for receiving application and operating system data, using Wi-Fi, Bluetooth, near field communication (NFC), cellular, and/or other wireless communication techniques. Device **500** can include input mechanisms **506** and/or **508**. Input mechanism **506** is, optionally, a rotatable input device or a depressible and rotatable input device, for example. Input mechanism **508** is, optionally, a button, in some examples.

[0207] Input mechanism **508** is, optionally, a microphone, in some examples. Personal electronic device **500** optionally includes various sensors, such as GPS sensor **532**, accelerometer **534**, directional sensor **540** (e.g., compass), gyroscope **536**, motion sensor **538**, and/or a combination thereof, all of which can be operatively connected to I/O section **514**.

[0208] Memory **518** of personal electronic device **500** can include one or more non-transitory computer-readable storage media, for storing computer-executable instructions, which, when executed by one or more computer processors **516**, for example, can cause the computer processors to perform the techniques described below, including processes **700**-**1100** (FIGS. **7**A-**7**B, **8**A-**8**B, **9**A-**9**B, **10**A-**10**B, **11**A-**11**C) and **1400** (FIGS. **14**A-**14**B). A computer-readable storage medium can be any medium that can tangibly contain or store computer-executable instructions for use by or in connection with the instruction execution system, apparatus, or device. In some examples, the storage medium is a transitory computer-readable storage medium. In some examples, the storage medium is a non-transitory computer-readable storage medium. The non-transitory computer-readable storage medium can include, but is not limited to, magnetic, optical, and/or semiconductor storages. Examples of such storage include magnetic disks, optical discs based on CD, DVD, or Blu-ray technologies, as well as persistent solid-state memory such as flash, solid-state drives, and the like. Personal electronic device **500** is not limited to the components and configuration of FIG. **5**B, but can include other or additional components in multiple configurations.

[0209] As used here, the term "affordance" refers to a user-interactive graphical user interface object that is, optionally, displayed on the display screen of devices **100**, **300**, and/or **500** (FIGS. **1**A, **3**, and **5**A-**5**B). For example, an image (e.g., icon), a button, and text (e.g., hyperlink) each optionally constitute an affordance.

[0210] As used herein, the term "focus selector" refers to an input element that indicates a current part of a user interface with which a user is interacting. In some implementations that include a cursor or other location marker, the cursor acts as a "focus selector" so that when an input (e.g., a press input) is detected on a touch-sensitive surface (e.g., touchpad **355** in FIG. **3** or touch-sensitive surface **451** in FIG. **4**B) while the cursor is over a particular user interface element (e.g., a button, window, slider, or other user interface element), the particular user interface element is adjusted in accordance with the detected input. In some implementations that include a touch screen display (e.g., touch-sensitive display system **112** in FIG. **1**A or touch screen **112** in FIG. **4**A) that enables direct interaction with user interface elements on the touch screen display, a detected contact on the touch screen acts as a "focus selector" so that when an input (e.g., a press input by the contact) is detected on the touch screen display at a location of a particular user interface element (e.g., a button, window, slider, or other user interface element), the particular user interface element is adjusted in accordance with the detected input. In some implementations, focus is moved from one region of a user interface to another region of the user interface without corresponding movement of a cursor or movement of a contact on a touch screen display (e.g., by using a tab key or arrow keys to move focus from one button to another button); in these implementations, the focus selector moves in accordance with movement of focus between different regions of the user interface. Without regard to the specific form taken by the focus selector, the focus selector is generally the

user interface element (or contact on a touch screen display) that is controlled by the user so as to communicate the user's intended interaction with the user interface (e.g., by indicating, to the device, the element of the user interface with which the user is intending to interact). For example, the location of a focus selector (e.g., a cursor, a contact, or a selection box) over a respective button while a press input is detected on the touch-sensitive surface (e.g., a touchpad or touch screen) will indicate that the user is intending to activate the respective button (as opposed to other user interface elements shown on a display of the device).

[0211] As used in the specification and claims, the term "characteristic intensity" of a contact refers to a characteristic of the contact based on one or more intensities of the contact. In some embodiments, the characteristic intensity is based on multiple intensity samples. The characteristic intensity is, optionally, based on a predefined number of intensity samples, or a set of intensity samples collected during a predetermined time period (e.g., 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 seconds) relative to a predefined event (e.g., after detecting the contact, prior to detecting liftoff of the contact, before or after detecting a start of movement of the contact, prior to detecting an end of the contact, before or after detecting an increase in intensity of the contact, and/or before or after detecting a decrease in intensity of the contact). A characteristic intensity of a contact is, optionally, based on one or more of: a maximum value of the intensities of the contact, a mean value of the intensities of the contact, an average value of the intensities of the contact, a top 10 percentile value of the intensities of the contact, a value at the half maximum of the intensities of the contact, a value at the 90 percent maximum of the intensities of the contact, or the like. In some embodiments, the duration of the contact is used in determining the characteristic intensity (e.g., when the characteristic intensity is an average of the intensity of the contact over time). In some embodiments, the characteristic intensity is compared to a set of one or more intensity thresholds to determine whether an operation has been performed by a user. For example, the set of one or more intensity thresholds optionally includes a first intensity threshold and a second intensity threshold. In this example, a contact with a characteristic intensity that does not exceed the first threshold results in a first operation, a contact with a characteristic intensity that exceeds the first intensity threshold and does not exceed the second intensity threshold results in a second operation, and a contact with a characteristic intensity that exceeds the second threshold results in a third operation. In some embodiments, a comparison between the characteristic intensity and one or more thresholds is used to determine whether or not to perform one or more operations (e.g., whether to perform a respective operation or forgo performing the respective operation), rather than being used to determine whether to perform a first operation or a second operation.

[0212] FIG. **5**C illustrates detecting a plurality of contacts **552**A-**552**E on touch-sensitive display screen **504** with a plurality of intensity sensors **524**A-**524**D. FIG. **5**C additionally includes intensity diagrams that show the current intensity measurements of the intensity sensors **524**A-**524**D relative to units of intensity. In this example, the intensity measurements of intensity sensors **524**A and **524**D are each 9 units of intensity, and the intensity measurements of intensity sensors **524**B and **524**C are each 7 units of intensity. In some implementations, an aggregate intensity is the sum of the intensity measurements of the plurality of intensity sensors **524**A-**524**D, which in this example is 32 intensity units. In some embodiments, each contact is assigned a respective intensity that is a portion of the aggregate intensity. FIG. **5**D illustrates assigning the aggregate intensity to contacts **552**A-**552**E based on their distance from the center of force **554**. In this example, each of contacts **552**A, **552**B, and **552**E are assigned an intensity of contact of 8 intensity units of the aggregate intensity, and each of contacts **552**C and **552**D are assigned an intensity of contact of 4 intensity units of the aggregate intensity. More generally, in some implementations, each contact j is assigned a respective intensity I_j that is a portion of the aggregate intensity, A, in accordance with a predefined mathematical function, $I_j = A \cdot \text{Math.}(D_j/\Sigma D_i)$, where D_j is the distance of the respective contact j to the center of force, and ΣD_i is the sum of the distances of all the respective contacts (e.g., i=1 to last) to the center of force. The operations described with reference to FIGS. **5**C-**5**D

can be performed using an electronic device similar or identical to device **100**, **300**, or **500**. In some embodiments, a characteristic intensity of a contact is based on one or more intensities of the contact. In some embodiments, the intensity sensors are used to determine a single characteristic intensity (e.g., a single characteristic intensity of a single contact). It should be noted that the intensity diagrams are not part of a displayed user interface, but are included in FIGS. **5**C-**5**D to aid the reader.

[0213] In some embodiments, a portion of a gesture is identified for purposes of determining a characteristic intensity. For example, a touch-sensitive surface optionally receives a continuous swipe contact transitioning from a start location and reaching an end location, at which point the intensity of the contact increases. In this example, the characteristic intensity of the contact at the end location is, optionally, based on only a portion of the continuous swipe contact, and not the entire swipe contact (e.g., only the portion of the swipe contact at the end location). In some embodiments, a smoothing algorithm is, optionally, applied to the intensities of the swipe contact prior to determining the characteristic intensity of the contact. For example, the smoothing algorithm optionally includes one or more of: an unweighted sliding-average smoothing algorithm, a triangular smoothing algorithm, a median filter smoothing algorithm, and/or an exponential smoothing algorithm. In some circumstances, these smoothing algorithms eliminate narrow spikes or dips in the intensities of the swipe contact for purposes of determining a characteristic intensity.

[0214] The intensity of a contact on the touch-sensitive surface is, optionally, characterized relative to one or more intensity thresholds, such as a contact-detection intensity threshold, a light press intensity threshold, a deep press intensity threshold, and/or one or more other intensity thresholds. In some embodiments, the light press intensity threshold corresponds to an intensity at which the device will perform operations typically associated with clicking a button of a physical mouse or a trackpad. In some embodiments, the deep press intensity threshold corresponds to an intensity at which the device will perform operations that are different from operations typically associated with clicking a button of a physical mouse or a trackpad. In some embodiments, when a contact is detected with a characteristic intensity below the light press intensity threshold (e.g., and above a nominal contact-detection intensity threshold below which the contact is no longer detected), the device will move a focus selector in accordance with movement of the contact on the touch-sensitive surface without performing an operation associated with the light press intensity threshold or the deep press intensity threshold. Generally, unless otherwise stated, these intensity thresholds are consistent between different sets of user interface figures.

[0215] An increase of characteristic intensity of the contact from an intensity below the light press intensity threshold to an intensity between the light press intensity threshold and the deep press intensity threshold is sometimes referred to as a "light press" input. An increase of characteristic intensity of the contact from an intensity below the deep press intensity threshold to an intensity above the deep press intensity threshold is sometimes referred to as a "deep press" input. An increase of characteristic intensity of the contact from an intensity below the contact-detection intensity threshold to an intensity between the contact-detection intensity threshold and the light press intensity threshold is sometimes referred to as detecting the contact on the touch-surface. A decrease of characteristic intensity of the contact from an intensity above the contact-detection intensity threshold to an intensity below the contact-detection intensity threshold is sometimes referred to as detecting liftoff of the contact from the touch-surface. In some embodiments, the contact-detection intensity threshold is zero. In some embodiments, the contact-detection intensity threshold is greater than zero.

[0216] In some embodiments described herein, one or more operations are performed in response to detecting a gesture that includes a respective press input or in response to detecting the respective press input performed with a respective contact (or a plurality of contacts), where the respective press input is detected based at least in part on detecting an increase in intensity of the contact (or plurality of contacts) above a press-input intensity threshold. In some embodiments, the

respective operation is performed in response to detecting the increase in intensity of the respective contact above the press-input intensity threshold (e.g., a "down stroke" of the respective press input). In some embodiments, the press input includes an increase in intensity of the respective contact above the press-input intensity threshold and a subsequent decrease in intensity of the contact below the press-input intensity threshold, and the respective operation is performed in response to detecting the subsequent decrease in intensity of the respective contact below the press-input threshold (e.g., an "up stroke" of the respective press input).

[0217] FIGS. **5**E-**5**H illustrate detection of a gesture that includes a press input that corresponds to an increase in intensity of a contact **562** from an intensity below a light press intensity threshold (e.g., "IT.sub.L") in FIG. **5**E, to an intensity above a deep press intensity threshold (e.g., "IT.sub.D") in FIG. **5**H. The gesture performed with contact **562** is detected on touch-sensitive surface **560** while cursor **576** is displayed over application icon **572**B corresponding to App 2, on a displayed user interface **570** that includes application icons **572**A-**572**D displayed in predefined region **574**. In some embodiments, the gesture is detected on touch-sensitive display **504**. The intensity sensors detect the intensity of contacts on touch-sensitive surface **560**. The device determines that the intensity of contact **562** peaked above the deep press intensity threshold (e.g., "IT.sub.D"). Contact **562** is maintained on touch-sensitive surface **560**. In response to the detection of the gesture, and in accordance with contact **562** having an intensity that goes above the deep press intensity threshold (e.g., "IT.sub.D") during the gesture, reduced-scale representations **578**A-**578**C (e.g., thumbnails) of recently opened documents for App 2 are displayed, as shown in FIGS. **5**F-**5**H. In some embodiments, the intensity, which is compared to the one or more intensity thresholds, is the characteristic intensity of a contact. It should be noted that the intensity diagram for contact **562** is not part of a displayed user interface, but is included in FIGS. **5**E-**5**H to aid the reader.

[0218] In some embodiments, the display of representations **578**A-**578**C includes an animation. For example, representation **578**A is initially displayed in proximity of application icon **572**B, as shown in FIG. **5**F. As the animation proceeds, representation **578**A moves upward and representation **578**B is displayed in proximity of application icon **572**B, as shown in FIG. **5**G. Then, representations **578**A moves upward, **578**B moves upward toward representation **578**A, and representation **578**C is displayed in proximity of application icon **572**B, as shown in FIG. **5**H. Representations **578**A-**578**C form an array above icon **572**B. In some embodiments, the animation progresses in accordance with an intensity of contact **562**, as shown in FIGS. **5**F-**5**G, where the representations **578**A-**578**C appear and move upwards as the intensity of contact **562** increases toward the deep press intensity threshold (e.g., "IT.sub.D"). In some embodiments, the intensity, on which the progress of the animation is based, is the characteristic intensity of the contact. The operations described with reference to FIGS. **5**E-**5**H can be performed using an electronic device similar or identical to device **100**, **300**, or **500**.

[0219] In some embodiments, the device employs intensity hysteresis to avoid accidental inputs sometimes termed "jitter," where the device defines or selects a hysteresis intensity threshold with a predefined relationship to the press-input intensity threshold (e.g., the hysteresis intensity threshold is X intensity units lower than the press-input intensity threshold or the hysteresis intensity threshold is 75%, 90%, or some reasonable proportion of the press-input intensity threshold). Thus, in some embodiments, the press input includes an increase in intensity of the respective contact above the press-input intensity threshold and a subsequent decrease in intensity of the contact below the hysteresis intensity threshold that corresponds to the press-input intensity threshold, and the respective operation is performed in response to detecting the subsequent decrease in intensity of the respective contact below the hysteresis intensity threshold (e.g., an "up stroke" of the respective press input). Similarly, in some embodiments, the press input is detected only when the device detects an increase in intensity of the contact from an intensity at or below the hysteresis intensity threshold to an intensity at or above the press-input intensity threshold and,

optionally, a subsequent decrease in intensity of the contact to an intensity at or below the hysteresis intensity, and the respective operation is performed in response to detecting the press input (e.g., the increase in intensity of the contact or the decrease in intensity of the contact, depending on the circumstances).

[0220] For ease of explanation, the descriptions of operations performed in response to a press input associated with a press-input intensity threshold or in response to a gesture including the press input are, optionally, triggered in response to detecting either: an increase in intensity of a contact above the press-input intensity threshold, an increase in intensity of a contact from an intensity below the hysteresis intensity threshold to an intensity above the press-input intensity threshold, a decrease in intensity of the contact below the press-input intensity threshold, and/or a decrease in intensity of the contact below the hysteresis intensity threshold corresponding to the press-input intensity threshold. Additionally, in examples where an operation is described as being performed in response to detecting a decrease in intensity of a contact below the press-input intensity threshold, the operation is, optionally, performed in response to detecting a decrease in intensity of the contact below a hysteresis intensity threshold corresponding to, and lower than, the press-input intensity threshold.

[0221] As used herein, an "installed application" refers to a software application that has been downloaded onto an electronic device (e.g., devices **100**, **300**, and/or **500**) and is ready to be launched (e.g., become opened) on the device. In some embodiments, a downloaded application becomes an installed application by way of an installation program that extracts program portions from a downloaded package and integrates the extracted portions with the operating system of the computer system.

[0222] As used herein, the terms "open application" or "executing application" refer to a software application with retained state information (e.g., as part of device/global internal state **157** and/or application internal state **192**). An open or executing application is, optionally, any one of the following types of applications: [0223] an active application, which is currently displayed on a display screen of the device that the application is being used on; [0224] a background application (or background processes), which is not currently displayed, but one or more processes for the application are being processed by one or more processors; and [0225] a suspended or hibernated application, which is not running, but has state information that is stored in memory (volatile and non-volatile, respectively) and that can be used to resume execution of the application.

[0226] As used herein, the term "closed application" refers to software applications without retained state information (e.g., state information for closed applications is not stored in a memory of the device). Accordingly, closing an application includes stopping and/or removing application processes for the application and removing state information for the application from the memory of the device. Generally, opening a second application while in a first application does not close the first application. When the second application is displayed and the first application ceases to be displayed, the first application becomes a background application.

[0227] Attention is now directed towards embodiments of user interfaces ("UI") and associated processes that are implemented on an electronic device, such as portable multifunction device **100**, device **300**, or device **500**.

[0228] FIGS. **6**A-**6**Z illustrate exemplary user interfaces related to viewing health data, in accordance with some embodiments. The user interfaces in these figures are used to illustrate the processes described below, including the processes in FIGS. **7**A-**7**B, **8**A-**8**B, **9**A-**9**B, **10**A-**10**B, and **11**A-**11**C.

[0229] FIG. **6**A depicts first electronic device **600** (e.g., a phone) displaying lock user interface **604** via touch-sensitive display device **602** at a first time (e.g., **9:45**). In some examples, first electronic device **600** includes one or more features of devices **100**, **300**, or **500**.

[0230] In some examples, lock user interface **604** relates to a user interface displayed when first electronic device transitions out of an inactive mode. As depicted in FIG. **6**A, lock user interface

604 includes multiple notifications (e.g., notification **604***a* and notification **604***b*) issued (e.g., caused to be displayed by first electronic device **600**) by processes executing on first electronic device **600**.

[0231] In some examples, notification **604***a* was issued by an activity process corresponding to an activity application (as indicated by icon **604***aa*). In some examples, user interface elements corresponding to the activity application will include icon **604***aa* (or some variant of icon **604***aa*, such as a smaller or larger version of icon **604***aa*). As depicted in FIG. **6**A, notification **604***a* includes (1) a time that notification **604***a* was issued (e.g., time **604***ad*, which indicates "NOW," referring to 9:45) and (2) a description regarding why notification **604***a* was issued (e.g., **604***ac*).

[0232] In some examples, notification **604***b* was issued by a clinical health record (CHR) process corresponding to a CHR application (as indicated by icon **604***ba*). In some examples, user interface elements corresponding to the CHR application will include icon **604***ba* (or some variant of icon **604***ba*, such as a smaller or larger version of icon **604***ba*). As depicted in FIG. **6**A, notification **604***b* includes (1) a time that notification **604***b* was issued (e.g., time **604***bd*, which indicates "8:00 AM") and (2) a description regarding why notification **604***b* was issued (e.g., **604***bc*).

[0233] FIG. **6**B depicts second electronic device **606** (e.g., a watch) displaying notification **610** via touch-sensitive display device **608** at a second time (e.g., 10:24) after the first time. In some examples, second electronic device **606** includes one or more features of devices **100**, **300**, **500**, or **600**.

[0234] In some examples, notification **610** was issued (e.g., caused to be displayed by second electronic device **606**) by a hearing process corresponding to a hearing application (as indicated by icon **610***a*) executing on second electronic device **606**. In some examples, user interface elements corresponding to the hearing application will include icon **610***a* (or some variant of icon **610***a*, such as a smaller or larger version of icon **610***a*). As depicted in FIG. **6**B, notification **610** includes a description regarding why notification **610** was issued (e.g., **610***b*).

[0235] FIG. **6**C depicts first electronic device **600** displaying home user interface **612** via touch-sensitive display device **602** at a third time after the second time. Home user interface **612** includes multiple icons, each icon corresponding to a different application. For example, home user interface **612** includes health icon **612***a* to initiate a health application and/or display a user interface of the health application.

[0236] FIG. **6**C depicts first electronic device **600** receiving user input **613** corresponding to health icon **612***a*. In some examples, user input **613** is received via touch-sensitive display device **602** and corresponds to selection of health icon **612***a* (e.g., a tap gesture on health icon **612***a*). In other examples, other forms of an input can be used, such as a click via a mouse. In some examples, user input **613** causes a different user interface to be displayed via touch-sensitive display device **602**, such as display of a user interface of the health application, as depicted in FIG. **6**DA.

[0237] FIGS. **6**DA-**6**DE depict first electronic device **600** displaying summary user interface **614** via touch-sensitive display device **602** at a fourth time after the third time. In some examples, summary user interface **614** is a user interface of the health application. As depicted in FIGS. **6**DA-**6**DE, summary user interface **614** includes multiple regions that include different affordances, the regions including a notification region (e.g., the notification region including first notification affordance **616**, second notification affordance **618**, and third notification affordance **620**), a logging region (e.g., the logging region including logging affordance **622**), a favorites region (e.g., the favorites region including first favorite affordance **626***a*, second favorite affordance **626***b*, third favorite affordance **626***c*, fourth favorite affordance **626***d*, fifth favorite affordance **626***e*, sixth favorite affordance **626***f*, and show all health data affordance **628**), a highlights region (e.g., the highlights region including first highlight affordance **630**, second highlight affordance **632**, and show all highlights affordance **634**), a health records region (e.g., the health records region including first health records affordance **636**, second health records affordance **638**, and show all records affordance **640**), an education region, a get more from health region, and an apps region.

[0238] In some examples, the notification region includes affordances for health-related notifications that have been issued/displayed by a device associated with an account logged into the health application. For example, the health-related notifications can be from first electronic device **600** (e.g., notification **604***a* and notification **604***b*, as depicted in FIG. **6**A) or another electronic device (e.g., second electronic device **606**) linked (e.g., both logged into a single account or paired, such as is performed with a smart phone and a corresponding smart watch) to either first electronic device **600** or the account (e.g., notification **610**, as depicted in FIG. **6**B). In such examples, the notification region is a location to display information associated with health-related notifications in one location that can be viewed after the health-related notifications are initially displayed.

[0239] As discussed above, the notification region includes first notification affordance **616**, second notification affordance **618**, and third notification affordance **620**. In some examples, first notification affordance **616** corresponds to (e.g., includes information from) notification **610**. In some examples, second notification affordance **618** corresponds to (e.g., includes information from) notification **604***a*. In some examples, third notification affordance **620** corresponds to (e.g., includes information from) notification **604***b*. As depicted in FIG. **6**DA, notification affordances in the notification region are ordered by date that a corresponding notification was initially issued (e.g., a most recent notification is first, a next most recent notification is next, and so on).

[0240] In some examples, notification affordances are removed from the notification region after a particular amount of time has passed. In some examples, the particular amount of time varies based on an amount of user interaction associated with a respective notification affordance or the data related to the affordance. For example, a first notification affordance is removed quicker than a second notification affordance when the first notification affordance (or a notification corresponding to the first notification affordance) is interacted with by a user and the second notification affordance is not interacted with by a user. For another example, a first notification affordance is removed quicker than a second notification affordance when the first notification affordance (or a notification corresponding to the first notification affordance) is displayed for a longer amount of time than the second notification affordance (or a notification corresponding to the second notification affordance). For another example, a first notification affordance is removed quicker than a second notification affordance when the first notification affordance (or a notification corresponding to the first notification affordance) is associated with a type of health data that is viewed (or interacted with) by a user more often than a type of health data that is associated with the second notification affordance (or a notification corresponding to the second notification affordance). For another example, a first notification affordance is removed quicker than a second notification affordance when the first notification affordance (or a notification corresponding to the first notification affordance) has more information (e.g., more detailed information) or more important information (e.g., as defined by the health application) than the second notification affordance (or a notification corresponding to the second notification affordance). For another example, a first notification affordance is removed quicker than a second notification affordance when the data corresponding to the first notification affordance is viewed on another device (e.g., device **608**) (e.g., even if the first notification affordance is not interacted with on device **600**). Such removal criteria is discussed further with respect to FIG. **6**F-**6**H.

[0241] First notification affordance **616** includes icon **616***a*, indicating that a notification (e.g., notification **610**) corresponding to first notification affordance **616** was issued by an application (e.g., the hearing application) represented by icon **616***a*. First notification affordance **616** includes a header that is visually distinct from the rest of first notification affordance **616**, the header including title **616***b* (indicating what first notification affordance **616** relates to) and time **616***c* (indicating a time that a notification corresponding to first notification affordance **616** was initially issued). In one example, the header is visually distinct from the rest of first notification affordance **616** by being a particular pattern or color that corresponds to the hearing application. In some examples, user interface elements related to the hearing application will include an element that is

the particular pattern or color. As depicted in FIG. **6**DA, first notification affordance **616** includes content **616***d*, which (in some examples) is at least a portion of content included in the notification corresponding to first notification affordance **616**.

[0242] Second notification affordance **618** includes icon **618***a*, indicating that a notification (e.g., notification **604***a*) corresponding to second notification affordance **618** was issued by an application (e.g., the activity application) represented by icon **618***a*. Second notification affordance **618** includes a header that is visually distinct from the rest of second notification affordance **618** (and visually distinct from the headers of first notification affordance **616** and third notification affordance **620**), the header including title **618***b* (indicating what second notification affordance **618** relates to) and time **618***c* (indicating a time that a notification corresponding to second notification affordance **618** was initially issued). In one example, the header is visually distinct from other elements by being a particular pattern or color that corresponds to the activity application. In some examples, user interface elements related to the activity application will include an element that is the particular pattern or color. As depicted in FIG. **6**DA, second notification affordance **618** includes content **618***d*, which (in some examples) is at least a portion of content included in the notification corresponding to second notification affordance **618**.

[0243] Third notification affordance **620** includes icon **620***a*, indicating that a notification (e.g., notification **604***b*) corresponding to third notification affordance **620** was issued by an application (e.g., the CHR application) represented by icon **620***a*. Third notification affordance **620** includes a header that is visually distinct from the rest of third notification affordance **620** (and visually distinct from the headers of first notification affordance **616** and second notification affordance **618**), the header including title **620***b* (indicating what third notification affordance **620** relates to) and time **620***c* (indicating a time that a notification corresponding to third notification affordance **620** was initially issued). In one example, the header is visually distinct from other elements by being a particular pattern or color that corresponds to the CHR application. In some examples, user interface elements related to the CHR application will include an element that is the particular pattern or color. As depicted in FIG. **6**DA, third notification affordance **620** includes icon **620***d* and content **620***e*, which (in some examples) is at least a portion of content included in the notification corresponding to third notification affordance **620**. In some examples, icon **620***d* corresponds to a clinical institution that generated a notification associated with third notification affordance **620**. In such examples, icon **620***d* is different from icon **620***a*.

[0244] In some examples, selection of a notification affordance causes a user interface of the health application to be displayed, the user interface associated with a corresponding application. For example, selection of first notification affordance **616** causes a user interface of the health application to be displayed, the user interface including information from the hearing application (sometimes referred to as a hearing data room, as depicted in FIG. **6**E and further discussed below).

[0245] In some examples, the logging region includes affordances for logging data. For example, logging affordance **622** relates to logging a cycle. Logging affordance **622** includes icon **622***a*, representative of a logging application corresponding to logging affordance **622** (e.g., a cycle tracking application). Logging affordance **622** also includes content **622***b*, describing logging affordance **622** and indicating a last time that a user has logged information associated with the logging application. Logging affordance **622** also includes graphic **622***c*, indicating whether logging criteria are met (e.g.: when logging criteria are not met, graphic **622***c* is a plus sign, indicating that a user has not logged a minimum number of times; when logging criteria are met, graphic **622***c* is a check mark, indicating that a user has logged a minimum number of times). In some examples, logging affordance **622** when selected, causes a user interface to be displayed that allows a user to log a cycle. In other examples, the act of selecting logging affordance **622** causes a cycle to be logged.

[0246] In some examples, a color or pattern associated with a portion of logging affordance **622** (e.g., a font color of the words "CYCLE TRACKING") are a particular color or pattern

corresponding to the logging application. The particular color or pattern, in some examples, is used on at least a portion of user elements displayed in the health application that correspond to the logging application. In some examples, the particular color or pattern is visually distinct from colors/patterns used for other applications (e.g., the activity application, the hearing application, the CHR application, or other logging applications).

[0247] In some examples, the favorites region includes affordances for health-related data that a user has indicated as one of their favorites (as depicted in FIG. **6**I and discussed below). In some examples, prior to the user indicating a favorite, the favorites region includes one or more pre-defined affordances corresponding to health-related data that a system has determined that the user would favorite (e.g., based on a device owned by the user, interactions of the user, the like, default favorites, or any combination thereof).

[0248] As discussed above, the favorites region includes first favorite affordance **626***a*, second favorite affordance **626***b*, third favorite affordance **626***c*, fourth favorite affordance **626***d*, fifth favorite affordance **626***e*, sixth favorite affordance **626***f*, and show all health data affordance **628**. First favorite affordance **626***a*, second favorite affordance **626***b*, and third favorite affordance **626***c* correspond to health data from an activity application, as indicated by, for example, icon **626***aa*.

[0249] In some examples, at least a portion of each favorite affordance is visually distinct to represent a corresponding application (e.g., a font color of title **626***ab*, in some examples, corresponds to the activity application). In some examples, the element that makes each favorite affordance visually distinct is consistent across different user interface elements (e.g., if a color is the element that is visually distinct, other user interface elements corresponding to the activity application will include the same color (e.g., the header in second notification affordance **618**, in some examples, is the same color as the font of "ACTIVITY" in first favorite affordance **626***a*).

[0250] As depicted in FIG. **6**DA, first favorite affordance **626***a* includes a time stamp for the last time health data **626***ac* (e.g., move, exercise, and stand metrics) was updated.

[0251] As depicted in FIG. **6**DB, fourth favorite affordance **626***d* includes icon **626***da*, which is a smaller version of icon **622***a* depicted in FIG. **6**DA. Such correspondence illustrates that different user interface elements related to the same application, in some examples, include the same icon to represent the application. Icon **626***ea* and icon **626***fa* are further examples of icons corresponding to different applications. In addition, title **626***db*, in some examples, is colored similarly to "CYCLE TRACKING" in content **622***b*, to further indicate that both relate to the same application.

[0252] In some examples, show all health data affordance **628** causes a user interface to be displayed that includes representations of all health data corresponding to the account associated with the health application. An example of such a user interface is depicted in FIGS. **12**AA-**12**AB.

[0253] In some examples, the highlights region includes graphical representations of health data over periods of time that are identified by the health application. For example, a particular graphical representation is displayed when it meets highlight criteria and is not displayed when it does not meet the highlight criteria. In some examples, the highlight criteria is based on differences between health data in time periods, time a user has spent viewing a particular graphic, interaction by a user with a particular graphic or element of interface **614**, or any combination thereof.

[0254] FIG. **6**DB depicts electronic device displaying first highlight affordance **630** in the highlight region of summary user interface **614** via touch-sensitive display device **602**. First highlight affordance **630** includes icon **630***a*, indicating that first highlight affordance **630** primarily relates to a heart rate application (in some examples, first highlight affordance **630** secondarily relates to a second application (e.g., a workout application) such that first highlight affordance **630** is based on data from the second application). In some examples, a portion of first highlight affordance **630** is visually distinguished to identify that first highlight affordance **630** primarily relates to the heart rate application (e.g., a font color for title **630***b*, in some examples, is a particular color corresponding to the heart rate application). First highlight affordance **630** also includes description **630***c* to indicate information illustrated by first highlight affordance **630** (e.g., such as a range of

values reached during a workout).

[0255] As depicted in FIG. **6**DB, first highlight affordance **630** includes graph **630***d* with representations for heart rate during a workout. Graph **630***d* includes minimum indication **630***e*, indicating a minimum value for heart rate during the workout, and maximum indication **630***f,* indicating a maximum value for heart rate during the workout. Such indications are determined by comparing heart rates at different times during a time period corresponding to the workout to identify a minimum and maximum.

[0256] FIG. **6**DC depicts electronic device displaying second highlight affordance **632** in the highlight region of summary user interface **614** via touch-sensitive display device **602**. Second highlight affordance **632** includes icon **630***a*, indicating that second highlight affordance **632** relates to an environmental audio application. In some examples, a portion of second highlight affordance **632** is visually distinguished to identify that second highlight affordance **632** relates to the environmental audio application (e.g., a font color for title **632***b*, in some examples, is a particular color corresponding to the environmental audio application). Second highlight affordance **632** also includes description **632***c* to indicate information illustrated by second highlight affordance **632** (e.g., such as how the average environmental audio level for today is 4 dB higher than the average for yesterday).

[0257] As depicted in FIG. **6**DC, second highlight affordance **632** includes a graph with an average representation for today (e.g., **632***d*) and an average representation for yesterday (e.g., **632***e*). As depicted in FIG. **6**DC, each of the an average representation for today and the average representation for yesterday includes a graphical representation of the average and a textual representation of the average. In some examples, the graph represents an amount of a single health data metric compared between time periods of the same length.

[0258] As discussed above, the highlights region also includes show all highlights affordance **634**. In some examples, selection of show all highlights affordance **634** causes a user interface corresponding to the health application to be displayed, such as show all highlights user interface as depicted in FIGS. **6**MA-**6**MD.

[0259] In some examples, the health records region includes affordances (e.g., first health records affordance **636** and second health records affordance **638**) corresponding to each clinical institution that has sent health record data regarding the account associated with the health application. For example, first health records affordance **636** indicates that it corresponds to XYZ Medical Center in Palo Alto, CA (see **636***d*). For another example, second health records affordance **638** indicates that it corresponds to ABC Urgent Care in San Jose, CA (see **638***d*).

[0260] In some examples, each affordance in the health records region includes a title indicating that the affordance corresponds to health records (e.g., title **636***a* and title **638***a*). As depicted in FIG. **6**DC, each affordance in the health records region also includes an indication of when a most recent health record from the corresponding clinical institution was received (e.g., first health records affordance **636** includes time indication **636***b* of 8:00 AM and second health records affordance **638** includes time indication **638***b* of 6:00 AM). In some examples, the affordances in the health records region are ordered based on when a most recent health record from the corresponding clinical institution was received (e.g., first health records affordance **636** is above second health records affordance **638** based on a most recent health record corresponding to first health records affordance **636** being received after a most recent health record corresponding to second health records affordance **638**). In other examples, the affordances in the health records region are ordered based on when health records updates were initially issued/generated for the account (e.g., first health records affordance **636** is above second health records affordance **638** based on a first health record corresponding to first health records affordance **636** being generated before a second health record corresponding to second health records affordance **638**). In other examples, the affordances in the health records region are ordered based on a user-defined ordering, such as designating primary and secondary institutions (e.g., where primary institutions

are above secondary institutions). In some examples, only primary institutions are represented in the health records region, where secondary institutions can be navigated to using show all health records affordance **640**. In some examples, selection of show all health records affordance **640** causes a user interface of the health application to be displayed, the user interface including all health records received for the account associated with the health application (as depicted in FIGS. **60**A-**60**B).

[0261] In some examples, each affordance in the health records region includes an indication of which records have been received from the corresponding institution. For example, first health records affordance **636** includes indication **636***e*, which indicates that health records corresponding to medications, lab results, and other records have been received from XYZ Medical Center. In some examples, indication **636***e* is ordered based on when health records were received (e.g., medications is before lab results because a health record with health data corresponding to medications was received more recent than a health record with health data corresponding to lab results was received). For another example, second health records affordance **638** includes indication **638***e*, which indicates that health records corresponding to medications have been received from ABC Urgent Care.

[0262] In some examples, the education region includes affordances that, when selected, cause a user interface to be displayed with educational content. In some examples, the get more from health region includes affordances that, when selected, cause a user interface to be displayed to configure the health application. In some examples, the apps region includes affordances corresponding to different applications that are determined to relate to the account of the health application.

[0263] As depicted in FIG. **6**DD, summary user interface **614** includes a pair of affordances (e.g., summary affordance **642***a* and search affordance **642***b*) at the bottom of summary user interface **614** to indicate which section of the health application that a current user interface relates (e.g., the visually distinct affordance (e.g., bolded) indicates which section). In some examples, selection of a section of the health application that a current user interface does not relate (e.g., search affordance **642***b* in FIG. **6**DD) causes a user interface corresponding to the selected section to be displayed (e.g., if search affordance **642***b* is selected, a user interface corresponding to the search section is displayed, as depicted in FIG. **6**TA-**6**TB). In some examples, selection of an affordance corresponding to a section that relates to the current user interface causes a home interface of the selected section to be displayed (e.g., summary user interface **614** as depicted in FIG. **6**DA for the summary section and search user interface **684** as depicted in FIGS. **6**TA-**6**TB).

[0264] FIG. **6**DA depicts first electronic device **600** receiving user input **615** corresponding to first notification affordance **616**. In some examples, user input **615** is received via touch-sensitive display device **602** and corresponds to a selection gesture (e.g., tap) on first notification affordance **616**. In other examples, other forms of selection can be used, such as a click using a mouse. In some examples, user input **615** causes a different user interface to be displayed via touch-sensitive display device **602**, such as display of environmental audio data room user interface **644** of the health application as depicted in FIG. **6**E.

[0265] FIG. **6**E depicts first electronic device **600** displaying environmental audio data room user interface **644** via touch-sensitive display device **602** at a fifth time after the fourth time. In some examples, environmental audio data room user interface **644** is a user interface of the health application with information from the environmental audio application. As depicted in FIG. **6**E, environmental audio data room user interface **644** includes a graph with data indicating noise levels detected by a device throughout a week. In some examples, the data is stored in a location associated with the environmental audio application and can be viewed within a user interface of the environmental audio application.

[0266] Environmental audio data room user interface **644** further includes time scale affordances at the top indicating different time scales (e.g., "D" indicating a day, "W" indicating a week, "M" indicating a month, and "Y" indicating a year). As depicted FIG. **6**E, the time scale affordance

indicating week is selected, causing the graph to indicate noise levels detected throughout a week. In some examples, selection of a different time scale affordance causes the graph to change to indicate noise levels detected throughout a selected time scale.

[0267] As depicted in FIG. **6**E, environmental audio data room user interface **644** includes a number of affordances at the bottom textually indicating information depicted by the graph. For example, there is a first affordance indicating the average throughout the week, a second affordance indicating a daily average throughout the week, a third affordance indicating a range throughout the week, and a number of noise notifications that were issued by the environmental audio application throughout the week. In some examples, selection of one of the affordances causes the graph to be modified to highlight data in the graph that corresponds to the selected affordance. For example, selection of the average affordance can cause a line to be inserted in the graph that indicates the average. For another example, selection of the daily average affordance can cause points to be inserted in each bar for each day in the graph to indicate the average for the respective day. For another example, selection of the range affordance can cause a portion of the graph to be highlighted where the minimum and maximum of the range occurred throughout the week. For another example, selection of the noise notification affordance can cause a portion of the graph to be highlighted that caused the noise notifications to be issued.

[0268] FIG. **6**F depicts first electronic device **600** displaying summary user interface **614** via touch-sensitive display device **602** at a sixth time after the fifth time. In some examples, summary user interface **614** is displayed in response to user input corresponding to selection of the back button at the top left of environmental audio data room user interface **644** (which is depicted in FIG. **6**E without the user input).

[0269] Summary user interface **614** as depicted in FIG. **6**F is scrolled down relative to summary user interface **614** as depicted in FIG. **6**DA (e.g., the text "SUMMARY" at the top left and the icon of the account at the top right are no longer displayed). FIG. **6**F depicts that first notification affordance **616** is still displayed in summary user interface **614** after first notification affordance **616** was interacted with (e.g., selected, as depicted in FIG. 6DA). FIG. **6**F also depicts that second notification affordance **618** and third notification affordance **620** are also still displayed in summary user interface **614**.

[0270] FIG. **6**G depicts first electronic device **600** displaying summary user interface **614** via touch-sensitive display device **602** at a seventh time after the sixth time. In some examples, summary user interface **614** is displayed in response to user input corresponding to re-display of summary user interface **614**.

[0271] FIG. **6**G depicts that first notification affordance **616** is no longer displayed in summary user interface **614**, even though second notification affordance **618** and third notification affordance **620** were received before first notification affordance **616**. Such illustrates that notification affordances that are interacted with are, in some examples, removed in a shorter time than notification affordances that are not interacted with. FIG. **6**G depicts that second notification affordance **618** and third notification affordance **620** are still displayed in summary user interface **614**.

[0272] FIG. **6**H depicts first electronic device **600** displaying summary user interface **614** via touch-sensitive display device **602** at an eighth time after the seventh time. In some examples, summary user interface **614** is re-displayed relative to touch-sensitive display device **602** at the seventh time (as depicted in FIG. **6**G).

[0273] FIG. **6**H depicts that third notification affordance **620** is no longer displayed in summary user interface **614**, due at least partially to (1) a notification corresponding to third notification affordance **620** being issued before a notification corresponding to second notification affordance **618** and (2) neither the notification corresponding to third notification affordance **620**, third notification affordance **620**, the notification corresponding to second notification affordance **618**, nor second notification affordance **618** has been interacted with by a user. Such illustrates that

notification affordances that have not been interacted with are removed based on chronological order when issued (e.g., older notification affordances are removed first). FIG. **6**H depicts that second notification affordance **618** is still displayed in summary user interface **614**.

[0274] FIG. **6**H depicts first electronic device **600** receiving user input **625** corresponding to edit affordance **624**. In some examples, user input **625** is received via touch-sensitive display device **602** and corresponds to a selection gesture (e.g., tap) on edit affordance **624**. In other examples, other forms of selection can be used, such as a click using a mouse. In some examples, user input **625** causes a different user interface to be displayed via touch-sensitive display device **602**, such as display of edit user interface **646** as depicted in FIG. **6**I.

[0275] FIG. **6**I depicts first electronic device **600** displaying edit user interface **646** via touch-sensitive display device **602** at a ninth time after the eighth time. In some examples, edit user interface **646** is a user interface of the health application allowing a user to add and/or remove favorites to be displayed in the favorites region of summary user interface **614**.

[0276] As depicted in FIG. **6**I, edit user interface **646** includes existing data affordance **646***a* and all affordance **646***b* for switching between views of edit user interface **646**. For example, user input corresponding to selection of existing data affordance **646***a* causes edit user interface **646** to display an existing data view, as depicted in FIG. **6**I and discussed below. Similarly, user input corresponding to selection of all affordance **646***b* causes edit user interface **646** to display an all data view (not illustrated), which includes all possible health data types for adding and/or removing from the favorites region.

[0277] In the view corresponding to existing data affordance **646***a* (as depicted in FIG. **6**I), edit user interface **646** includes representations for health data types that the account has at least some health data for (e.g., a representation of a health data type is displayed when the health application has access to health data of the health data type for the account (e.g., there has been at least some health data of the health data type stored for the account)). In such examples, edit user interface **646** in the view corresponding to existing data affordance **646***a* does not include any representations for health data types for which the account has no health data for (e.g., a representation for a health data type is not displayed when the health application does not have access to health data of the health data type for the account (e.g., there is no health data of the health data type stored for the account)).

[0278] In either view, selection of a representation of a health data type causes a favorite affordance for the health data type to be added to the favorites region of summary user interface **614**, allowing a user to view stored data for the health data type from summary user interface **614**. As depicted in FIG. **6**I, a representation of a health data type is indicated as being selected by including an indication that is visually distinct from other indications within the representation. For example, representation **646***c* includes an indication indicating that a favorite affordance for the health data type corresponding to representation **646***c* is to be displayed in the favorites region of summary user interface **614**. For another example, representation **646***d* includes an indication indicating that a favorite affordance for the health data type corresponding to representation **646***c* is not to be displayed in the favorites region of summary user interface **614**. As depicted in FIG. **6**I, groups of representations for health data types are displayed via edit user interface **646**. For example, edit user interface **646** includes a group of representations corresponding to activity, body measurements, and heart, where each representation within a group of representations is related.

[0279] FIG. **6**J depicts first electronic device **600** displaying summary user interface **614** via touch-sensitive display device **602** at a tenth time after the ninth time. In some examples, summary user interface **614** is displayed in response to user input corresponding to selection of the done button at the top right of edit user interface **646** (which is depicted in FIG. **6**I without the user input). Summary user interface **614** as depicted in FIG. **6**J is scrolled down relative to summary user interface **614** as depicted in FIG. **6**H (e.g., logging affordance **622** is no longer displayed in FIG. **6**J).

[0280] FIG. **6**J depicts first electronic device **600** receiving user input **627** corresponding to second favorite affordance **626***b*. In some examples, user input **627** is received via touch-sensitive display device **602** and corresponds to a selection gesture (e.g., tap) on second favorite affordance **626***b*. In other examples, other forms of selection can be used, such as a click using a mouse. In some examples, user input **627** causes a different user interface to be displayed via touch-sensitive display device **602**, such as display of steps data room user interface **648** as depicted in FIGS. **6**KA-**6**KB.

[0281] FIGS. **6**KA-**6**KB depict first electronic device **600** displaying steps data room user interface **648** via touch-sensitive display device **602** at an eleventh time after the tenth time. In some examples, steps data room user interface **648** is displayed in response to user input corresponding to selection of second favorite affordance **626***b* in summary user interface **614**, as depicted in FIG. **6**J.

[0282] In some examples, steps data room user interface **648** is a user interface of the health application with information from the activity application. As depicted in FIG. **6**KA, steps data room user interface **648** includes graph **648***a* with representations of health data associated with steps throughout a day. In some examples, the health data is stored in a location associated with the activity application and can be viewed within a user interface of the activity application.

[0283] Steps data room user interface **648** further includes time scale affordances at the top indicating different time scales (e.g., "D" indicating a day, "W" indicating a week, "M" indicating a month, and "Y" indicating a year). As depicted FIG. **6**KA, the time scale affordance indicating day is selected, causing the graph to indicate number of steps detected throughout a day. In some examples, selection of a different time scale affordance causes the graph to change to indicate number of steps detected throughout a selected time scale.

[0284] Steps data room user interface **648** includes a highlight section including highlights associated with steps. As depicted in FIG. **6**KA, steps data room user interface **648** includes a single highlight (e.g., **648***b*) depicting how the number of steps increased over a time period. It should be recognized that other highlights might be included in the highlight section. In some examples, identifying which highlights to display in steps data room user interface **648** includes a similar determination as discussed above for the highlights region. Steps data room user interface **648** further includes description **648***c* regarding what it means to be a step and add affordance **468** to cause steps to be added to the favorites region in summary user interface **614**.

[0285] Referring to FIG. **6**KB, steps data room user interface **648** includes (1) steps apps section **648***e* with links to suggested apps related to steps (e.g., a link to an app store or a link to an application installed on first electronic device **600**), (2) options section **648***f* with various options related to steps, and (3) education section **648***g* with affordances, which, when selected, cause a user interface to be displayed with content pertaining to steps.

[0286] FIG. **6**L depicts first electronic device **600** displaying summary user interface **614** via touch-sensitive display device **602** at a twelfth time after the eleventh time. In some examples, summary user interface **614** is displayed in response to user input corresponding to selection of the back to summary affordance at the top left of steps data room user interface **648** (which is depicted in FIG. **6**KA without the user input). Summary user interface **614** as depicted in FIG. **6**L is scrolled down relative to summary user interface **614** as depicted in FIG. **6**J (e.g., the favorites region is no longer displayed and the highlights region is displayed in FIG. **6**L).

[0287] FIG. **6**L depicts first electronic device **600** receiving user input **635** corresponding to show all highlights affordance **634**. In some examples, user input **635** is received via touch-sensitive display device **602** and corresponds to a selection gesture (e.g., tap) on show all highlights affordance **634**. In other examples, other forms of selection can be used, such as a click using a mouse. In some examples, user input **635** causes a different user interface to be displayed via touch-sensitive display device **602**, such as display of all highlights user interface **650** as depicted in FIGS. **6**MA-**6**MD.

[0288] FIGS. **6**MA-**6**MD depict first electronic device **600** displaying all highlights user interface **650** via touch-sensitive display device **602** at a thirteenth time after the twelfth time. In some examples, all highlights user interface **650** is displayed in response to user input corresponding to selection of show all highlights affordance **634** in summary user interface **614**, as depicted in FIG. **6**L.

[0289] In some examples, all highlights user interface **650** is a user interface of the health application with a list of highlights currently identified (e.g., identifying is based on the determination discussed above regarding the highlights region, such that not all highlights generated are included in all highlights user interface **650** (e.g., only highlights meeting a display criteria are displayed in all highlights user interface **650**) by the health application for the account. FIG. **6**MA depicts first electronic device **600** displaying first highlight affordance **630** and second highlight affordance **632**, which were also displayed in the highlights region of summary user interface **614** and discussed above.

[0290] FIG. **6**MB depicts first electronic device **600** displaying third highlight affordance **652** via touch-sensitive display device **602**. Third highlight affordance **652** includes icon **652***a*, indicating that third highlight affordance **652** relates to a sleep application. In some examples, a portion of third highlight affordance **652** is visually distinguished to identify that third highlight affordance **652** relates to the sleep application (e.g., a font color for title **652***b*, in some examples, is a particular color corresponding to the sleep application). Second highlight affordance **632** also includes description **652***c* to indicate information illustrated by third highlight affordance **652** (e.g., such as how a user slept an average of 7 hours and 55 minutes this week).

[0291] As depicted in FIG. **6**MB, third highlight affordance **652** includes a graph with representations of how much a user slept each day of the week. The graph also includes average line **652***e* to visually indicate an average over the week. In some examples, the graph represents an average over a time period (e.g., a week) that is broken into sub time periods (e.g., days).

[0292] FIG. **6**MB depicts first electronic device **600** displaying fourth highlight affordance **654** via touch-sensitive display device **602**. Fourth highlight affordance **654** includes icon **654***a*, indicating that fourth highlight affordance **654** primarily relates to a water application (in some examples, fourth highlight affordance **654** secondarily relates to a calendar application). In some examples, a portion of fourth highlight affordance **654** is visually distinguished to identify that fourth highlight affordance **654** relates to the water application (e.g., a font color for title **654***b*, in some examples, is a particular color corresponding to the water application). Fourth highlight affordance **654** also includes description **652***c* to indicate information illustrated by fourth highlight affordance **654** (e.g., such as how a user logged water 21 days in the last 4 weeks).

[0293] As depicted in FIG. **6**MB, fourth highlight affordance **654** includes calendar **654***d* with representations for each day having an indication whether a user logged water for a respective day. As depicted in FIG. **6**MB, representation **654***f* is visually distinguished from some other representations (e.g., representation **654***e*, indicating that a user logged water on a day corresponding to representation **654***f* and did not log water on a day corresponding to representation **654***e*). In some examples, calendar **654***d* represents frequency of a single health data metric compared between time periods of the same length.

[0294] FIG. **6**MC depicts first electronic device **600** displaying fifth highlight affordance **656** via touch-sensitive display device **602**. Fifth highlight affordance **656** includes icon **656***a*, indicating that fifth highlight affordance **656** primarily relates to a navigation application (in some examples, fifth highlight affordance **656** secondarily relates to a workout application). In some examples, a portion of fifth highlight affordance **656** is visually distinguished to identify that fifth highlight affordance **656** primarily relates to the navigation application (e.g., a font color for title **656***b*, in some examples, is a particular color corresponding to the navigation application). Fifth highlight affordance **656** also includes description **656***c* to indicate information illustrated by fifth highlight affordance **656** (e.g., such as that a user logged a run of 3.1 miles at an average pace of 8:51).

[0295] As depicted in FIG. **6**MC, fifth highlight affordance **656** includes map **656***d* with an indication in map **656***d* of a route of the run. Fifth highlight affordance **656** also includes textual information regarding the run, including distance measurement **656***e* (which is in addition to and larger than the distance included in description **656***c*), duration **656***f*, and calories **656***g*.

[0296] FIG. **6**MC depicts first electronic device **600** displaying sixth highlight affordance **658** via touch-sensitive display device **602**. Sixth highlight affordance **658** includes icon **658***a*, indicating that sixth highlight affordance **658** relates to a workout application. In some examples, a portion of sixth highlight affordance **658** is visually distinguished to identify that sixth highlight affordance **658** relates to the workout application (e.g., a font color for title **658***b*, in some examples, is a particular color corresponding to the workout application). Sixth highlight affordance **658** also includes description **658***c* to indicate information illustrated by sixth highlight affordance **658** (e.g., such as that a user burned a total of 6500 calories today).

[0297] As depicted in FIG. **6**MC, sixth highlight affordance **658** includes 4 different representations of different workouts recorded in a day. Each workout includes an icon corresponding to the type of workout, identification information (e.g., a name) of the type of workout, a length of time of the respective workout, and a number of calories burned during the respective workout. In some examples, sixth highlight affordance **658** represents multiple workouts for a single day in a single highlight with heath data for the single day.

[0298] FIG. **6**MD depicts first electronic device **600** displaying seventh highlight affordance **660** via touch-sensitive display device **602**. Seventh highlight affordance **660** includes icon **660***a*, indicating that seventh highlight affordance **660** primarily relates to a vitals application. In some examples, a portion of seventh highlight affordance **660** is visually distinguished to identify that seventh highlight affordance **660** relates to the vitals application (e.g., a font color for title **660***b*, in some examples, is a particular color corresponding to the vitals application). It should be noted that seventh highlight affordance **660** does not include a description to indicate information illustrated by seventh highlight affordance **660**, showing that not all highlights have such a description. As depicted in FIG. **6**MD, seventh highlight affordance **660** includes graph **660***c* depicting a beats per minute for a user over time, illustrating how the beats per minute reduced from a high point to a lower point.

[0299] FIG. **6**MD depicts first electronic device **600** displaying eighth highlight affordance **662** via touch-sensitive display device **602**. Eighth highlight affordance **662** includes icon **662***a*, indicating that eighth highlight affordance **662** relates to an activity application. In some examples, a portion of eighth highlight affordance **662** is visually distinguished to identify that eighth highlight affordance **662** relates to the activity application (e.g., a font color for title **662***b*, in some examples, is a particular color corresponding to the activity application). Eighth highlight affordance **662** also includes description **662***c* to indicate information illustrated by eighth highlight affordance **662** (e.g., such as that a user has taken more steps today than they normally do at this time of day).

[0300] As depicted in FIG. **6**MD, eighth highlight affordance **662** includes graph **662***d* comparing an activity metric for a day (e.g., a current day) over a previous average. For example, graph **662***d* includes today line **662***h* and a previous average line (comprising first portion **662***g* and second portion **662***i*). Today line **662***h* depicts a number of steps for a user as time has progressed during a day up until the current time. The previous average line depicts a number of steps for a user as time has progressed on average during a number of days prior to the current day. First portion **662***g* represents time up until the current time and second portion **662***i* represents time after the current time. Graph **662***d* also includes a textual indication regarding a number of steps for today and a number of steps as of this time on average over the number of days prior to the current day. In some examples, sixth highlight affordance **658** represents average over a time period compared to today with instantaneous update of information.

[0301] FIG. **6**N depicts first electronic device **600** displaying summary user interface **614** via touch-sensitive display device **602** at a fourteenth time after the thirteenth time. In some examples,

summary user interface **614** is displayed in response to user input corresponding to selection of summary affordance **642***a* in all highlights user interface **650** (which is depicted in FIG. **6**MD without the user input). Summary user interface **614** as depicted in FIG. **6**N is scrolled down relative to summary user interface **614** as depicted in FIG. **6**L (e.g., the highlights region is no longer displayed and the health records region is displayed in FIG. **6**N).

[0302] FIG. **6**N depicts first electronic device **600** receiving user input **641** corresponding to show all health records affordance **640**. In some examples, user input **641** is received via touch-sensitive display device **602** and corresponds to a selection gesture (e.g., tap) on show all health records affordance **640**. In other examples, other forms of selection can be used, such as a click using a mouse. In some examples, user input **641** causes a different user interface to be displayed via touch-sensitive display device **602**, such as display of all health data user interface **664** as depicted in FIGS. **60**A-**60**B.

[0303] FIGS. **60**A-**60**B depict first electronic device **600** displaying all health data user interface **664** via touch-sensitive display device **602** at a fifteenth time after the fourteenth time. In some examples, all health data user interface **664** is displayed in response to user input corresponding to selection of show all health records affordance **640** in summary user interface **614**, as depicted in FIG. **6**N.

[0304] In some examples, all health data user interface **664** is a user interface of the health application with a list of health data received for the account. As depicted in FIG. **60**A, all health data user interface **664** includes all data affordance **664***a* and health records affordance **664***b* for switching between views of all health data user interface **664**. For example, user input corresponding to selection of all data affordance **664***a* causes all health data user interface **664** to display an all data view, as depicted in FIG. **12**AA. Similarly, user input corresponding to selection of health records affordance **664***b* causes all health data user interface **664** to display a health record view (as depicted in FIGS. **60**A-**60**B), which includes all health records received for the account. In some examples, in response to selection of show all health records affordance **640**, the health record view is displayed instead of the all data view. In such examples, in response to selection of an all health data affordance (e.g., all health data affordance **628**, as depicted in FIG. **6**DB), the all data view is displayed instead of the health record view.

[0305] In the health record view, all health data user interface **664**, in some examples, includes representations for health record types (e.g., representation **666** is for allergies, representation **666***b* is for clinical vitals, representation **666***c* is for conditions, representation **666***d* is for immunizations, representation **666***e* is for lab results, representation **666***f* is for medications, and representation **666***g* is for procedures). In such examples, the representations for health record types are ordered alphabetically (e.g., allergies before clinical vitals before conditions before immunizations before lab results before medications before procedures).

[0306] In some examples, each representation in the health record view includes an icon corresponding to the health record type (e.g., icon **666***aa* corresponds to allergies, icon **666***ba* corresponds to clinical vitals, icon **666***ca* corresponds to conditions, icon **666***da* corresponds to immunizations, icon **666***ea* corresponds to lab results, icon **666***fa* corresponds to medications, icon **666***ga* corresponds to procedures). In some examples, a user interface of the health application that includes a user interface element corresponding to the health record type will include a version of the corresponding icon.

[0307] In some examples, each representation in the health record view includes a list of information corresponding to the respective health record type. For example, representation **666***a*, which corresponds to allergies, includes a list of items for which health records have indicated that a user associated with the account is allergic to (e.g., pollen, mold, avocado, and shellfish). In some examples, the list of information is ordered based on recency (e.g., items that have been more recently identified for a health record type are ordered in front of (e.g., above) items that have less recently been identified for the health record type). In some examples, all health data user interface

664 in the health record view will include a representation for a health record type even when there is no health records for the health record type.

[0308] As depicted in FIG. **60**B, all health data user interface **664** includes external affordance **666***h*. Selection of external affordance **666***h* causes a user interface of the health application to be displayed, the user interface including information from one or more external sources (e.g., sources external to first electronic device **600**). As depicted in FIG. **60**B, all health data user interface **664** includes unreadable data affordance **666***i*. Selection of unreadable data affordance **666***i* causes a user interface of the health application to be displayed, the user interface including representations of health records that could not be parsed by a process associated with the health application.

[0309] FIG. **60**A depicts first electronic device **600** receiving user input **667** corresponding to representation **666***e*. In some examples, user input **667** is received via touch-sensitive display device **602** and corresponds to a selection gesture (e.g., tap) on representation **666***e*. In other examples, other forms of selection can be used, such as a click using a mouse. In some examples, user input **667** causes a different user interface to be displayed via touch-sensitive display device **602**, such as display of lab result data room user interface **668** as depicted in FIGS. **6**PA-**6**PB.

[0310] FIGS. **6**PA-**6**PB depict first electronic device **600** displaying lab result data room user interface **668** via touch-sensitive display device **602** at a sixteenth time after the fifteenth time. In some examples, lab result data room user interface **668** is displayed in response to user input corresponding to selection of representation **666***e* in all health data user interface **664** as depicted in FIG. **60**A. In other examples, lab result data room user interface **668** is displayed in response to user input corresponding to a notification representation in summary user interface **614** indicating that lab results (e.g., and no other health record types) have been updated. In other examples, lab result data room user interface **668** is displayed in response to searching for lab results using search user interface **684** as depicted in FIG. **6**TA and selecting an affordance corresponding to lab result data room user interface **668** in search results.

[0311] As depicted in FIG. **6**PA, lab result data room user interface **668** includes icon **668***a* and title **668***b* corresponding to and indicating the health record type "lab result." In some examples, user interface elements corresponding to the health record type "lab result" include an icon similar to icon **668***a*.

[0312] As depicted in FIG. **6**PA, lab result data room user interface **668** includes last updated affordance **668***c* and A-to-Z affordance **668***d* for switching between views of lab result data room user interface **668**. For example, user input corresponding to selection of last updated affordance **668***c* causes lab result data room user interface **668** to display a first view, as depicted in FIGS. **6**PA-**6**PB. Similarly, user input corresponding to selection of A-to-Z affordance **668***d* causes lab result data room user interface **668** to display a second view, as depicted in FIG. **6**Q.

[0313] As depicted in FIGS. **6**PA-**6**PB, lab result data room user interface **668** includes multiple regions (e.g., region **670** and region **672**), each region corresponding to a different date that health records within the region were generated (e.g., collected, taken, or otherwise created by a clinical institution). In some examples, the multiple regions are ordered by date, such that regions corresponding to more recent dates are before regions corresponding to later dates. For example, lab result data room user interface **668** includes region **670** (which is indicated to correspond to Mar. 29, 2019) (as depicted in FIG. **6**PA) higher in a list than (e.g., before) region **672** (which is indicated to correspond to Aug. 15, 2019) (as depicted in FIG. **6**PB).

[0314] In some examples, each region included in lab result data room user interface **668** includes one or more representations of health records. For example, region **670** includes two representations of two separate health records: representation **670***b* and representation **670***c*. For another example, region **672** includes three representations: representation **672***b*, representation **672***c*, and representation **672***d*.

[0315] In some examples, representations within a region are included in a sub-region corresponding to a clinical institution associated with the health records. For example,

representation **670***b* and representation **670***c* are included in a sub-region that corresponds to XYZ Medical Center, indicating that health records corresponding to representation **670***b* and representation **670***c* were received from (e.g., generated by) XYZ Medical Center. For another example, representation **672***b*, representation **672***c*, and representation **672***d* are included in a sub-region that corresponds to ABC Urgent Care, indicating that the health records corresponding to representation **672***b*, representation **672***c*, and representation **672***d* were received from (e.g., generated by) ABC Urgent Care. Such illustrates that lab result data room user interface **668** can includes representations from multiple clinical institutions.

[0316] In some examples, representations of health records in lab result data room user interface **668** include an icon indicating a corresponding health record type (as discussed above). In some examples, representations of health records in lab result data room user interface **668** include information corresponding to a respective health record. For example, information in **670***b* includes the word "collected," indicating that a corresponding health record was collected on the associated date (e.g., Mar. 29, 2019).

[0317] The information in representation **670***b* further includes a graph illustrating a corresponding health record. The graph in representation **670***b* includes multiple indications of a value (e.g., "125 MG/DL") included in the corresponding health record and a range defined for the value (e.g., 0 to 200, which is a minimum and maximum value). The multiple indications include a textual indication (e.g., the text) and a graphical representation (e.g., the dot in the visual representation of the range). In some examples, the value is considered to meet particular criteria (e.g., criteria related to whether the value is acceptable, such as criteria set by a governing body) when the value is within the range. In some examples, the range is included in the corresponding health record. In other examples, the range is known by the health application, such as from being provided by a remote source (such as a clinical institution).

[0318] FIG. **6**PA depicts representation **670***c* including a graph illustrating a corresponding health record. The graph in representation **670***c* includes multiple indications of a value (e.g., "6.3%") included in the corresponding health record and a range defined for the value (e.g., 5.7 to 6.3, which is a minimum and maximum value). The multiple indications include a textual indication (e.g., the text) and a graphical representation (e.g., the dot in the visual representation of the range). In some examples, the value is considered to meet particular criteria (e.g., criteria related to whether the value is acceptable, such as criteria set by a governing body) when the value is within the range. In some examples, the range is included in the corresponding health record. In other examples, the range is known by the health application, such as from being provided by a remote source (such as a clinical institution).

[0319] FIG. **6**PB depicts representation **672***b* including information from a corresponding health record. The information in representation **672***b* includes a single indication (e.g., a textual indication) of a value (e.g., "40%") included in the corresponding health record and no indication of a range defined for the value. In some examples, the information in representation **672***b* does not include a graph (and/or an indication of a range) because the health application is unable to identify a range for the value (e.g., the corresponding health record did not include the range and/or an institution has not provided the range).

[0320] FIG. **6**PB depicts representation **672***c* including information from a corresponding health record. The information in representation **672***c* includes a single indication (e.g., a textual indication) of a value (e.g., "NEGATIVE") included in the corresponding health record. In some examples, the information in representation **672***b* does not include a graph (and/or an indication of a range) because the value is less than a minimum number of possible values for the corresponding health record (in some examples, the minimum number of possible values is three (e.g., binary values will not be graphed).

[0321] FIG. **6**PB depicts representation **672***d* including a graph illustrating a corresponding health record. The graph in representation **672***d* includes multiple indications of a value (e.g., "4.5

trillion") included in the corresponding health record and a range defined for the value (e.g., 5.32 to 5.72 trillion, which is a minimum and maximum value). The multiple indications include a textual indication (e.g., the text) and a graphical representation (e.g., the dot in the visual representation of the range). In some examples, the value is considered to meet particular criteria (e.g., criteria related to whether the value is acceptable, such as criteria set by a governing body) when the value is within the range. In some examples, the range is included in the corresponding health record. In other examples, the range is known by the health application, such as from being provided by a remote source (such as a clinical institution). FIG. **6**PB illustrates that some representations can include graphs while other representations do not include a graph, even representations corresponding to the same health record type. Such a result, in some examples, is due to some health records not including ranges and/or being binary values.

[0322] FIG. **6**PA depicts first electronic device **600** receiving user input **669** corresponding to A-to-Z affordance **668***d*. In some examples, user input **669** is received via touch-sensitive display device **602** and corresponds to a selection gesture (e.g., tap) on A-to-Z affordance **668***d*. In other examples, other forms of selection can be used, such as a click using a mouse. In some examples, user input **669** causes a different view of lab result data room user interface **668** to be displayed via touch-sensitive display device **602**, such as the A-to-Z view depicted in FIG. **6**Q.

[0323] FIG. **6**Q depicts first electronic device **600** displaying an A-to-Z view of lab result data room user interface **668** via touch-sensitive display device **602** at a seventeenth time after the sixteenth time. In some examples, the A-to-Z view is displayed in response to user input corresponding to selection of A-to-Z affordance **668***d* in lab result data room user interface **668** as depicted in FIG. **6**PA.

[0324] As depicted in FIG. **6**Q, the A-to-Z view includes last updated affordance **668***c* and A-to-Z affordance **668***d* for switching between views of lab result data room user interface **668**. For example, user input corresponding to selection of last updated affordance **668***c* causes lab result data room user interface **668** to display a first view, as depicted in FIGS. **6**PA-**6**PB. Similarly, user input corresponding to selection of A-to-Z affordance **668***d* causes lab result data room user interface **668** to display a second view, as depicted in FIG. **6**Q.

[0325] As depicted in FIG. **6**Q, the A-to-Z view includes a list of affordances for different lab results, each affordance corresponding to a different type of lab result. In some examples, the list of affordances are alphabetically ordered by each affordance's corresponding type of lab result (e.g., a cholesterol affordance (e.g., affordance **674***a*) is before a creatine affordance (e.g., affordance **674***b*)). In some examples, each affordance in the list of affordances includes an indication regarding a number of health records associated with a corresponding type of lab result. For example, the "12" in affordance **674***a* indicates that the health system has received **12** health records corresponding to cholesterol.

[0326] FIG. **6**Q depicts first electronic device **600** receiving user input **675** corresponding to affordance **674***c*. In some examples, user input **675** is received via touch-sensitive display device **602** and corresponds to a selection gesture (e.g., tap) on affordance **674***c*. In other examples, other forms of selection can be used, such as a click using a mouse. In some examples, user input **675** causes a different user interface to be displayed via touch-sensitive display device **602**, such as hemoglobin user interface **676** depicted in FIGS. **6**RA-**6**RB.

[0327] FIGS. **6**RA-**6**RB depict first electronic device **600** displaying hemoglobin user interface **676** via touch-sensitive display device **602** at an eighteenth time after the seventeenth time. In some examples, hemoglobin user interface **676** is displayed in response to user input corresponding to selection of affordance **674***c* in lab result data room user interface **668** as depicted in FIG. **6**Q. In some examples, hemoglobin user interface **676** is displayed in response to user input corresponding to selection of affordance **670***c* in lab result data room user interface **668** as depicted in FIG. **6**PA. In some examples, hemoglobin user interface **676** is a user interface of the health application with information based on health records corresponding to Hemoglobin A1C.

[0328] As depicted in FIG. **6**RA, hemoglobin user interface **676** includes a graph with data indicating values obtained from health records corresponding to Hemoglobin A1C throughout a year. For example, a first health record can indicate that results for a first Hemoglobin A1C test were 6.3% (e.g., the first health record corresponds to affordance **680***a*), a second health record can indicate that results for a second Hemoglobin A1C test were 7.3% (e.g., the second health record corresponds to affordance **680***b*), and a third health record can indicate that results for a third Hemoglobin A1C test were 6% (e.g., the third health record corresponds to affordance **680***c*). With such health records, the graph includes an indication for the first health record (e.g., **676***cc*), the second health record (e.g., **676***ca*), and the third health record (e.g., **676***cb*). In some examples, the graph also includes representation **676***cd*, providing additional information regarding one of the health records in the graph. As depicted in FIG. **6**RA, representation **676***cd* relates to the first health record. In some examples, representation **676***cd* relates to the first health record in response to user input on indication **676***cc* and/or selection of an affordance on a different user inter to cause hemoglobin user interface **676** to be displayed, the affordance corresponding to a health record associated with indication **676***cc* (e.g., affordance **670***c* as depicted in FIG. **6**PA).

[0329] As depicted in FIG. **6**RA, hemoglobin user interface **676** includes time scale affordances at the top indicating different time scales (e.g., "W" indicating a week, "M" indicating a month, "Y" indicating a year, and "5Y" indicating 5 years). As depicted FIG. **6**RA, the time scale affordance indicating year is selected, causing the graph to indicate health records throughout a year. In some examples, selection of a different time scale affordance causes the graph to change to indicate health records detected throughout a selected time scale.

[0330] As depicted in FIG. **6**RA, hemoglobin user interface **676** includes out of range affordance **678**. Selection of out of range affordance **678** causes indications in the graph to be visually distinguished (e.g., highlighted) that correspond to a value that is out of a defined range, as discussed above.

[0331] FIG. **6**RA depicts first electronic device **600** receiving user input **681** corresponding to affordance **680***a*. In some examples, user input **681** is received via touch-sensitive display device **602** and corresponds to a selection gesture (e.g., tap) on affordance **680***a*. In other examples, other forms of selection can be used, such as a click using a mouse. In some examples, user input **681** causes a different user interface to be displayed via touch-sensitive display device **602**, such as lab result record user interface **682** depicted in FIG. **6**SA.

[0332] FIG. **6**SA depicts first electronic device **600** displaying lab result record user interface **682** via touch-sensitive display device **602** at a nineteenth time after the eighteenth time. In some examples, lab result record user interface **682** is displayed in response to user input corresponding to selection of affordance **680***a* in hemoglobin user interface **676** as depicted in FIG. **6**RA. In some examples, lab result record user interface **682** includes detailed information regarding a particular health record. In some examples, the detailed information includes a date when the particular health record was collected, a date when the particular health record was received by the health application, alternate names for the particular health record (e.g., as identified from either a remote source or other health records associated with the account of the health application), a clinical institution associated with the particular health record, and other information included in the particular health record.

[0333] FIGS. **6**SB-**6**SC depict first electronic device **600** displaying XYZ medical center user interface **698** via touch-sensitive display device **602**. In some examples, XYZ medical center user interface **698** is displayed in response to user input corresponding to selection of first health records affordance **636** in the health records region of summary user interface **614** as depicted in FIG. **6**DC.

[0334] As depicted in FIGS. **6**SB-**6**SC, XYZ medical center user interface **698** includes multiple regions (e.g., regions for different days), each region corresponding to a different date that health records within the region were generated (e.g., collected, taken, or otherwise created by a clinical institution). In some examples, the multiple regions are ordered by date, such that regions

corresponding to more recent dates are before regions corresponding to later dates. For example, XYZ medical center user interface **698** includes a region corresponding to Mar. 29, 2019, (as depicted in FIG. **6**SB) higher in a list than (e.g., before) a region corresponding to Nov. 2, 2018 (as depicted in FIG. **6**SC).

[0335] In some examples, each region included in XYZ medical center user interface **698** includes one or more sub-regions, each sub-region corresponding to a different health records type (e.g., allergies, medications, etc.) within the sub-region. In some examples, multiple sub-regions are ordered alphabetically (e.g., allergies before medications) (not illustrated).

[0336] In some examples, each sub-region included in XYZ medical center user interface **698** includes one or more representations of health records. For example, sub-region **698***a* includes four representations of four separate health records, such as representation **670***b* (as also depicted and described in FIG. **6**PA), representation **670***c* (as also depicted and described in FIG. **6**PA), representation **698***b* (similar to **672***b* as depicted and described in FIG. **6**PB, but from XYZ Medical Center instead of ABC Urgent Care), and representation **698***c* (similar to **672***c* as depicted and described in FIG. **6**PB, but from XYZ Medical Center instead of ABC Urgent Care). FIGS. **6**SB-**6**SC illustrate that some representations can include graphs while other representations do not include a graph, even representations corresponding to the same health record type. Such a result, in some examples, is due to some health records not including ranges and/or being binary values. While FIGS. **6**SB-**6**SC depict a user interface for a single clinical institution, it should be recognized that similar techniques can be used for a user interface with representations for health records from multiple clinical institutions.

[0337] FIG. **6**TA depicts first electronic device **600** displaying search user interface **684** via touch-sensitive display device **602** at a twentieth time after the nineteenth time. In some examples, search user interface **684** is displayed in response to user input corresponding to selection of search affordance **642***b* in any user interface of health application, such as summary user interface **614**.

[0338] As depicted in FIG. **6**TA, search user interface **684** includes search area **684***a* for inserting a search query to use to search the health application. For example, when first electronic device **600** receives user input corresponding to a string (e.g., a user types in a string using a keyboard) while focusing on search area **684***a* (e.g., an insertion marker is located within search area **684***a*) and a request to perform a search, first electronic device **600** searches data associated with the health application based on the string, as depicted in FIG. **6**U and further discussed below.

[0339] As depicted in FIG. **6**TA, search user interface **684** includes four groups of affordances: shared health data affordances **684***b*, health categories affordances **684***c*, health records affordances **684***d*, and health content affordances **684***g*. In some examples, search user interface **684** includes less groups of affordances, such as not including shared health data affordances **684***b* when first electronic device **600** is not receiving shared health data from another device.

[0340] In some examples, affordances of shared health data affordances **684***b* relate to other accounts for which are linked with the account associated with the health application. In one example, linking includes a connection between the two accounts such that health data recorded for one account is sent to the other account. For example, FIG. **6**TA depicts that shared health data affordances **684***b* includes affordance **684***ba*. In some examples, affordance **684***ba* relates to an account associated with "Little Appleseed" such that selection of affordance **684***ba* causes display of a user interface for the account associated with "Little Appleseed" (e.g., a user interface allowing a user to view health data associated with the account associated with "Little Appleseed"), as depicted in FIG. **6**XA and discussed below.

[0341] In some examples, affordances of health categories affordances **684***c* relate to categories of health data types. In particular, health categories affordances **684***c* represents a hierarchy of health data, allowing a user to navigate to particular health data through one or more user inputs. For example, health categories affordances **684***c* includes affordance **684***ca* corresponding to activity health data type (e.g., a type of health data corresponding to activity). In some examples, the

activity health data type corresponds to health data stored by an activity application. For another example, health categories affordances **684***c* includes affordance **684***ck* corresponding to vitals health data type (e.g., a type of health data corresponding to vitals). In some examples, the vitals health data type corresponds to health data stored by a vitals application.

[0342] In some examples, selection of an affordance of health categories affordances **684***c* causes a user interface of the health application to be displayed, the user interface including health data associated with a respective health data type, as depicted in FIGS. **6**V-**6**W and discussed below.

[0343] In some examples, affordances of health records affordances **684***d* relate to categories of health records, as discussed above. For example, health records affordances **684***d* represents a hierarchy of health records, allowing a user to navigate to a particular health record through one or more user inputs. For example, health records affordances **684***d* includes affordance **684***de* corresponding to lab results (e.g., a type of health record). In some examples, selection of affordance **684***de* causes a user interface to be displayed, the user interface including lab results health records. Health records affordances **684***d* also include affordances related to clinical institutions (e.g., affordance **684***h*). Selection of an affordance related to a clinical institution causes a user interface of the health application to be displayed, the user interface including heath records gathered by the clinical institution. Selection of an affordance related to all accounts (e.g., affordance **684***dj*) causes a user interface of the health application to be displayed, the user interface including all heath records.

[0344] As depicted in FIG. **6**TB, search user interface **684** includes affordance **684***e* for viewing clinical documents. Selection of affordance **684***e* causes a user interface of the health application to be displayed, the user interface including clinical documents. As depicted in FIG. **6**TB, search user interface **684** includes affordance **684***f* for viewing unreadable data (e.g., data that the health application (or a process related to the health application) is unable to parse (e.g., interpret or read). Selection of affordance **684***f* causes a user interface of the health application to be displayed, the user interface including representations of health records that were unable to be parsed by the health application (or a process related to the health application).

[0345] In some examples, affordances of health content affordances **684***g* relate to links to other health content. For example, health content affordances **684***g* includes an affordance to view educational content. Selection of such an affordance causes a user interface of the health application to be displayed, the user interface including educational content. For another example, health content affordances **684***g* includes an affordance to view highlights, which were discussed above. Selection of such an affordance causes a user interface of the health application to be displayed, the user interface including one or more highlight representations.

[0346] FIG. **6**U depicts first electronic device **600** displaying search user interface **684** via touch-sensitive display device **602** at a twenty-first time after the twentieth time. In some examples, search user interface **684** (as depicted in FIG. **6**U) is displayed in response to a user requesting to search for a string entered into search area **684***a*. For example, FIG. **6**U depicts that a user has entered "BLOOD PRESS" into search area **684***a*, causing search results to be displayed corresponding to a search for "BLOOD PRESS" using the health application. In some examples, the user requesting to search for the string causes the search results to replace (e.g., cease to display) the four groups of affordances in search user interface **684** depicted in FIGS. **6**TA-**6**TB.

[0347] In some examples, the search results include data from different sources. For example, first search result **684***h* includes health data (e.g., health data detected by first electronic device **600** or another device linked to either first electronic device **600** or the account associated with the health application). As depicted in FIG. **6**U, first search result **684***h* includes a representation of blood pressure detected for a user associated with the account. For another example, second search result **684***i* includes health record data (e.g., health records received by first electronic device **600** from, for example, a clinical institution). As depicted in FIG. **6**U, second search result **685***i* includes blood pressure that was included in a health record.

[0348] In some examples, the search results include categories of highlights determined to be related to the string. For example, FIG. **6**U depicts that the search results include heart highlights affordance **685***ja* (e.g., an affordance related to highlights associated with the heart) and vitals highlights affordance **685***jb* (e.g., an affordance related to highlights associated with vitals). In some examples, selection of a highlight affordances causes a user interface of the health application to be displayed, the user interface including one or more highlight representations related to the respective category of highlights.

[0349] In some examples, the search results include categories of health data determined to be related to the string (**684***k*). Such categories correspond to health categories affordances **684***c* discussed above. For example, FIG. **6**U depicts that the search results include heart category affordance **684***ka*, vitals affordance **684***kb*, and clinical vitals affordance **684***kc*. The categories of health data represents a hierarchy of health records, allowing a user to navigate to a particular health record through one or more user inputs. For example, selection of an affordance corresponding to a category of health data causes a user interface to be displayed, the user interface including health records corresponding to the category.

[0350] FIG. **6**V depicts first electronic device **600** displaying activity user interface **686** via touch-sensitive display device **602** at a twenty-second time after the twenty-first time. In some examples, activity user interface **686** is displayed in response to user input corresponding to selection of affordance **684***ca* in search user interface **684**.

[0351] As depicted in FIG. **6**V, activity user interface **686** includes representations of health data related to activity for the account associated with the health application. For example, activity user interface **686** includes representation **686***a* with heart rate data during strength training.

[0352] FIG. **6**W depicts first electronic device **600** displaying vitals user interface **688** via touch-sensitive display device **602** at a twenty-third time after the twenty-second time. In some examples, vitals user interface **688** is displayed in response to user input corresponding to selection of affordance **684***ck* in search user interface **684**.

[0353] As depicted in FIG. **6**W, vitals user interface **688** includes representations of health data related to vitals for the account associated with the health application. For example, activity user interface **686** includes representation **688***a* with heart rate data during strength training. Representation **688***a* is an example that health data included in one category (e.g., vitals) can be included in another category (e.g., activity). Such a result is due to health data having multiple categories for which they are associated. For example, heart rate data during strength training, as depicted in FIGS. **6**V-**6**W, is associated with both activity and vitals. In some examples, health data has a primary and a secondary health category.

[0354] FIGS. **6**XA-**6**XB depict first electronic device **600** displaying child search user interface **690** via touch-sensitive display device **602** at a twenty-fourth time after the twenty-third time. In some examples, child search user interface **690** and user interfaces navigated from affordances included in child search user interface **690** are read-only (as compared to search user interface **684**, which, in some examples, allows a user to add/remove/edit data when navigating to data associated with the account of the health application). In some examples, child search user interface **690** is displayed in response to user input corresponding to selection of affordance **684***ba* in search user interface **684**.

[0355] In some examples, child search user interface **690** is a version of search user interface **684** for an account linked to the account associated with the health application. As depicted in FIGS. **6**XA-**6**XB, child search user interface **690** includes search area **692***a* (similar to search area **684***a* in search user interface **684**, except that search area **692***a* searches data corresponding to Little Appleseed instead of the account associated with the health application), health categories affordances **692***b* (similar to health categories affordances **684***c* in search user interface **684**, except that health categories affordances **692***b* is associated with data corresponding to Little Appleseed instead of the account associated with the health application), health records affordances **692***c*

(similar to health records affordances **684***d* in search user interface **684**, except that health records affordances **692***c* is associated with data corresponding to Little Appleseed instead of the account associated with the health application), and health content affordances **692***e* (similar to health content affordances **684***g* in search user interface **684**). In some examples, child search user interface **690** does not include shared health data affordances (e.g., shared health data affordances **684***ba*). In other examples, child search user interface **690** includes shared health data affordances for devices that are linked to Little Appleseed's account.

[0356] FIG. **6**Y depicts first electronic device **600** displaying activity user interface **694** via touch-sensitive display device **602** at a twenty-fifth time after the twenty-fourth time. In some examples, activity user interface **694** is displayed in response to user input corresponding to selection of activity affordance in child search user interface **690**.

[0357] As depicted in FIG. **6**Y, activity user interface **694** includes representations of health data related to activity for Little Appleseed's account (e.g., as indicated by indication **694***a*). For example, activity user interface **694** includes representation **694***c* with heart rate data during strength training for Little Appleseed.

[0358] FIG. **6**Z depicts first electronic device **600** displaying vitals user interface **696** via touch-sensitive display device **602** at a twenty-sixth time after the twenty-fifth time. In some examples, vitals user interface **696** is displayed in response to user input corresponding to selection of vitals affordance in child search user interface **690**.

[0359] As depicted in FIG. **6**Z, vitals user interface **696** includes representations of health data related to vitals for Little Appleseed's account (e.g., as indicated by indication **696***a*). For example, vitals user interface **696** includes representation **696***c* with heart rate data during strength training for Little Appleseed. Representation **696***c* is an example that health data included in one category (e.g., vitals) can be included in another category (e.g., activity). Such a result is due to health data having multiple categories for which they are associated. For example, heart rate data during strength training, as depicted in FIGS. **6**Y-**6**Z, is associated with both activity and vitals. In some examples, health data has a primary and a secondary health category.

[0360] FIGS. **7**A-**7**B are a flow diagram illustrating a method for managing notifications using an electronic device in accordance with some embodiments. Method **700** is performed at a device (e.g., **100**, **300**, **500**, **600**, **606**) with a display device. Some operations in method **700** are, optionally, combined, the orders of some operations are, optionally, changed, and some operations are, optionally, omitted.

[0361] As described below, method **700** provides an intuitive way for managing notifications. The method reduces the cognitive burden on a user for viewing and acting on notifications, thereby creating a more efficient human-machine interface. For battery-operated computing devices, enabling a user to view and act on notifications faster and more efficiently conserves power and increases the time between battery charges.

[0362] The electronic device displays (**702**), via the display device, a first instance (e.g., **614**, as depicted in FIG. **6**DA) of a first user interface including a first notification (e.g., **616**, **618**, **620**) (e.g., a notification affordance) that, when selected, causes display of a first set of data (e.g., **644**) (e.g., notification data, data generated or received (e.g., from an external device) at a first time; health data; sensor data; biometric data; physical activity data; clinical data).

[0363] In some embodiments, the first notification includes a first visual property (**704**) (e.g., a color (e.g., depicted as pattern in header of **616**, which includes **616***b* and **616***c*, pattern in header of **618**, which includes **618***a*, **618***b* and **618***c*, and pattern in header of **620**, which includes **620***a*, **620***b*, and **620***c*) (e.g., a foreground color, a background color, inclusion (or exclusion) of a respective icon). In some embodiments, in accordance with (**706**) a determination that the first set of data corresponds to (e.g., was generated by) a first application, the first visual property has a first value (e.g., blue). In some embodiments, in accordance with (**708**) a determination that the first set of data corresponds to a second application, the first visual property has a second value (e.g., red)

different from the first value.

[0364] Specifying a visual quality (e.g., color) of a notification based on the corresponding application provides the user with feedback that helps identify the application. Providing improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0365] After displaying the first instance of the first user interface, the electronic device displays (**710**) (e.g., in response to an input corresponding to a request to display the first user interface) a second instance (e.g., **614**, as depicted in FIG. **6**G) of the first user interface.

[0366] In accordance with (**712**) a determination that a set of interaction criteria (a set of criteria relating to whether the first set of data has been interacted with (e.g., via selection of the first notification)) are met, the set of interaction criteria including a criterion that is met when the first set of data has been displayed (e.g., displayed in the first instance of the first user interface, displayed in a subsequent instance of the first user interface, displayed on the electronic device, displayed on a second electronic device that receives the same notifications as the electronic device (e.g., because both are associated with the same user account)), and in accordance with a determination that a first set of removal criteria (e.g., a set of criteria that govern display of a notification that corresponds to data that has been interacted with) are not met, the first set of removal criteria including a first criterion that is based on a first period of time (e.g., a period time that must be exceeded to meet the first criterion; a period of time determined from when the first set of data was received or generated; a period of time determined from when a notification corresponding to the first set of data was first displayed; a non-zero period of time), the second instance of the first user interface includes the first notification (FIG. **6**G-**6**H).

[0367] In accordance with (**714**) a determination that the set of interaction criteria are met and in accordance with a determination that the first set of removal criteria are met, the second instance of the first user interface does not include the first notification (FIG. **6**G-**6**H).

[0368] In accordance with (**716**) a determination that the set of interaction criteria are not met and in accordance with a determination that a second set of removal criteria (e.g., a set of criteria that govern display of a notification that corresponds to data that has not been interacted with) are not met, the second set of removal criteria including a second criterion that is based on a second period of time (e.g., a period time that must be exceeded to meet the second criterion; a period of time determined from when the first set of data was received or generated; a period of time determined from when a notification corresponding to the first set of data was first displayed) that is greater than the first period of time, the second instance of the first user interface includes the first notification (FIG. **6**G-**6**H). In some embodiments, the second period of time is less than the first period of time.

[0369] In accordance with (**718**) a determination that the set of interaction criteria are not met and in accordance with a determination that the second set of removal criteria are met, the second instance of the first user interface does not include the first notification (FIG. **6**G-**6**H). In some embodiments, a notification is displayed (or redisplayed) in a first user interface for a period of time that varies based on whether the notification has been interacted with. In some embodiments, a notification that has not been interacted with is displayed for a period of time that is greater than for a notification that has been interacted with.

[0370] Displaying the first notification based on whether the set of interaction criteria and the sets of removal criteria are met enables the user to view relevant notifications without providing unwanted notifications. Performing an operation when a set of conditions has been met without requiring further user input enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user

mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0371] In some embodiments, prior to displaying the first instance of the first user interface, the electronic device receives, from an external device (e.g., a smart watch that includes one or more sensors (e.g., biometric sensors)), a second set of data, wherein the first set of data corresponds to the second set of data (e.g., **610**). In some embodiments, the external device is in a paired relationship with the electronic device (e.g., both devices are associated with the same user account and have a persistent relationship). In some embodiments, the second set of data is the first set of data. In some embodiments, the second set of data is included in the first set of data. In some embodiments, the first set of data is derived from (e.g., calculated based on) the second set of data. In some embodiments, the second set of data is sensor data from one or more sensors of the external device. In some embodiments, the second set of data includes clinical health data (e.g., **604***b*) (e.g., medical records from a health institution; test results from a clinical testing lab).

[0372] In some embodiments, the electronic device includes a set of one or more sensors (e.g., biometric sensors). In some embodiments, prior to displaying the first instance of the first user interface, the electronic device receives (e.g., detecting), via the set of one or more sensors, a third set of data (e.g., **604***a*). In some embodiments, the first set of data corresponds to the third set of data. In some embodiments, the third set of data is the first set of data. In some embodiments, the third set of data is included in the first set of data. In some embodiments, the first set of data is derived from (e.g., calculated based on) the third set of data. In some embodiments, prior to displaying the first instance of the first user interface, the electronic device displays a second user interface (e.g., any user interface other than the summary tab of the health application, such as a lock screen) including a second notification corresponding to the third set of data. In some embodiments, the second user interface is different from the first user interface. In some embodiments, the second notification includes the same content as the first notification.

[0373] In some embodiments, the first notification is included in a first list of notifications. In some embodiments, the first list of notifications is ordered based on chronological or reverse chronological order (e.g., based on an initial notification issuance time; based on a time when data that is displayed when a respective notification is selected was generated or received) (e.g., FIG. **6**DA).

[0374] Ordering the first list based on chronological or reverse chronological order structures provides the user with feedback about the sequence in which the notifications were generated. Providing improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0375] In some embodiments, while displaying the first notification (e.g., in the first instance or the second instance of the first user interface), the electronic device receives a first input (e.g., **615**) corresponding to selection of the first notification. In some embodiments, in response to receiving the first input, the electronic device displays, via the first display device, a second user interface (e.g., **644**) (e.g., that includes the first set of data. In some embodiments, the first set of data corresponds to a first application and the second user interface includes additional data and/or information from the first application.

[0376] In some embodiments, the first set of data corresponds to a first data type (e.g., biometric data, sensor data). In some embodiments, the second user interface includes: a first affordance that, when selected, causes display of a first value (e.g., a first average) of the first data type; and a second affordance that, when selected, causes display of a second value (e.g., a second average that based on a different filter (e.g., a time filter, a source filter) than the first average) of the first data

type that is different from the first value (e.g., average and daily average affordances in **644**).

[0377] Note that details of the processes described above with respect to method **700** (e.g., FIGS. **7**A-**7**B) are also applicable in an analogous manner to the methods described below/above. For example, methods **800**, **900**, **1000**, **1100**, and **1400** optionally include one or more of the characteristics of the various methods described above with reference to method **700**. For brevity, these details are not repeated below.

[0378] FIGS. **8**A-**8**B are a flow diagram illustrating a method for managing display of health-related information using an electronic device in accordance with some embodiments. Method **800** is performed at a device (e.g., **100**, **300**, **500**, **600**) with a display device. Some operations in method **800** are, optionally, combined, the orders of some operations are, optionally, changed, and some operations are, optionally, omitted.

[0379] As described below, method **800** provides an intuitive way for managing display of health-related information. The method reduces the cognitive burden on a user for viewing health-related information, thereby creating a more efficient human-machine interface. For battery-operated computing devices, enabling a user to view health-related information faster and more efficiently conserves power and increases the time between battery charges.

[0380] The electronic device receives (**802**) first health data (e.g., physical activity performed by a user; data detected via one or more biometric sensors) (e.g., see **626***b*). In some embodiments, the first health data is received over a period of time. In some embodiments, the first health data is received together, as a set.

[0381] The electronic device receives (**804**) a request (e.g., **613**) (e.g., a request to view a summary tab of a health application, such as a user tapping on an icon for the health application or a user tapping on an affordance for the summary tab) to display a first user interface (e.g., **614**).

[0382] In response to receiving the request, the electronic device displays (**806**), via the display device, the first user interface (e.g., **614**) including a first region (e.g., the favorites region in **614**) (**808**) (e.g., favorites section). The first user region, in accordance with (**812**) a determination that a type of data (e.g., activity, environmental noise, etc.) corresponding to the first health data has been identified by user input (e.g., a user has favorited the type of data), includes a first representation (e.g., **626***a*) of the first health data (e.g., a number of steps made during a current day). The first user region, in accordance with (**814**) a determination that the type of data corresponding to the first health data has not been identified by user input (e.g., the user has not favorited the type of data), does not include the representation of the first health data.

[0383] In response to receiving the request, the electronic device displays (**806**), via the display device, the first user interface including a second region (e.g., the highlights region in **614**) (**810**) (e.g., highlights section). The second region, in accordance with (**816**) a determination that a first set of highlight criteria are met (e.g., a system determines that the representation corresponding to the health data should be displayed to a user), includes a second representation (e.g., **630**, **632 652**, **654**, **656**, **658**, **660**, **662**) of the first health data different from the first representation (e.g., a graphical representation comparing health data for a first health metric over a first time period with health data for the first health metric over a second time period different from the first time period). In some embodiments, representations that are displayed in the second region are not user-customizable/user-selectable. In some embodiments, representations that are displayed in the second region include a comparison of the health data to health data that corresponds to a different period of time than the period time of the health data. The second region, in accordance with (**818**) a determination that the first set of highlight criteria are not met (e.g., a system determines that the representation corresponding to the health data should not be displayed to a user), does not include the second representation of the first health data.

[0384] Including the second representation of the first health data based on the first set of highlight criteria being met enables the device to display relevant information and to avoid using display space when the information is not relevant. Performing an operation when a set of conditions has

been met without requiring further user input enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0385] In some embodiments, the health data includes health data for a first plurality of time periods (e.g., days, weeks, months). In some embodiments, the first representation of the health data includes: a first indication (e.g., a text indication, a graphical indication; an indication of a first metric (e.g., steps, miles, calories)) of the health data corresponding to a first time period (e.g., today) of the first plurality of time periods; and a second indication (e.g., a text indication, a graphical indication) of the health data corresponding to a second time period (e.g., yesterday) of the first plurality of time periods that is different from the first time period. In some embodiments, the first representation includes a bar graph having values for today compared to values for yesterday (e.g., **632**).

[0386] Providing different indications for different time periods provides the user with feedback about the stored data that corresponds to the respective time periods. Providing improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0387] In some embodiments, the first time period of the first plurality of time periods corresponds to a specific instance of a recurring time interval (e.g., specific hours of a day, specific day in a week or a month). In some embodiments, the second time period of the first plurality of time periods is a plurality of instances. In some embodiments, all of the instances of the recurring time interval available in the health data) of the recurring time interval (e.g., multiple Mondays of weeks; multiple mornings of days). In some embodiments, the first indication is a value of a health metric for the Mondays of a week and the second indication is an average value of the health metric for all Mondays (e.g., **662**).

[0388] In some embodiments, the health data includes health data for a second plurality of time periods (e.g., days, weeks, months). In some embodiments, the first representation of the health data includes a third indication of the health data corresponding to the frequency (e.g., as a ratio, as a percentage, as a fraction (e.g., 4 days out of the last week)) of the occurrence of a first health event (e.g., a health-related event) within the second plurality of time periods (e.g., a day, a week, a year) (e.g., **654**).

[0389] In some embodiments, the health data includes health data for a third plurality of time periods (e.g., days, weeks, months). In some embodiments, the first representation of the health data includes: a fourth indication of an average value of the health data for the third plurality of time periods (e.g., an average for the week); a fifth indication corresponding to the value of the health data for a first time period of the third plurality of time periods (e.g., a day within the week); and a sixth indication corresponding to the value of the health data for a second time period of the third plurality of time periods (e.g., a day within the week) that is different from the first time period of the plurality of time periods (e.g., **652**).

[0390] In some embodiments, the first representation includes a seventh indication corresponding to a first physical activity tracking session (e.g., a first workout). In some embodiments, the first representation includes an eighth indication corresponding to a second physical activity tracking session. In some embodiments, the first and second physical activity tracking sessions are different types of workouts (e.g., running and swimming). In some embodiments, the first physical activity tracking session and the second physical activity tracking session correspond to the same time period (e.g., same day, same week, same month). In some embodiments, a ninth indication of the health data (e.g., total calories burned, an average pace) that is based on the first physical activity

tracking session and the second physical activity tracking session (e.g., **658**).

[0391] Displaying an indication of the health data that is based on the first and second physical activity tracking sessions provides the user with feedback, using the indication, about both the sessions. Providing improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0392] In some embodiments, the first set of highlight criteria includes a criterion that is based on a factor selected from the group consisting of: a relationship (e.g., a mathematical relationship (e.g., a difference)) between a first portion (e.g., a portion corresponding to a first time period (e.g., a day)) of the health data and a second portion (e.g., a portion corresponding to a second time period (e.g., a week)) of the health data, a degree of user interaction with the health data, and a duration of time in which a representation (e.g., any representation) of the health data has been displayed (e.g., on the electronic device).

[0393] In some embodiments, the first representation is included in a first list of representation. In some embodiments, the first list of representations is ordered based on the types of data of the health data (e.g., physical activity data is grouped together; heart-related data is grouped together) (e.g., **660**).

[0394] Note that details of the processes described above with respect to method **800** (e.g., FIGS. **8**A-**8**B) are also applicable in an analogous manner to the methods described below/above. For example, methods **700**, **900**, **1000**, **1100**, and **1400** optionally include one or more of the characteristics of the various methods described above with reference to method **800**. For brevity, these details are not repeated below.

[0395] FIGS. **9**A-**9**B is a flow diagram illustrating a method for managing display of clinical health record representations using an electronic device in accordance with some embodiments. Method **900** is performed at a device (e.g., **100**, **300**, **500**, **600**, **606**) with a display device. Some operations in method **900** are, optionally, combined, the orders of some operations are, optionally, changed, and some operations are, optionally, omitted.

[0396] As described below, method **900** provides an intuitive way for managing display of clinical health record representations. The method reduces the cognitive burden on a user for accessing clinical health records, thereby creating a more efficient human-machine interface. For battery-operated computing devices, enabling a user to access clinical health records faster and more efficiently conserves power and increases the time between battery charges.

[0397] The electronic device receives (**902**) clinical health record data corresponding to a particular health institution (e.g., **672a**, XYZ Medical Center in **698**). The electronic device receives (**904**) a request (e.g., **667**, tap first health records affordance **636** in summary user interface **614**) (e.g., a request to view all clinical health records for XYZ Medical Center) to display a first user interface (e.g., **668**, **698**).

[0398] In response to receiving the request, the electronic device displays (**906**), via the display device, the first user interface (e.g., **668**, **698**). The first user interface includes a first region (e.g., **672**, **698a**) (**908**) corresponding to a first type of clinical health record (e.g., **668b**, **698a**, a lab results region). The first region includes, in accordance with (**912**) a determination that a first clinical health record of the first type of clinical health record fails to meet a first set of graphing criteria (e.g., the first clinical health record either (1) does not include a range for the first clinical health record or (2) includes binary information (which, in some examples, does not achieve benefit from graphing)), a first textual representation (e.g., **672b**, **672c**, **698b**, **698c**) for the first clinical health record based on the clinical health record data, wherein the first user interface does not include a graphical representation (e.g., a non-textual graphical representation) for the first clinical health record. The first region includes, in accordance with (**914**) a determination that the

first clinical health meets the first set of graphing criteria (e.g., the first clinical health record includes a range for the first clinical health record and includes non-binary information (which, in some examples, achieves benefit from graphing)), a first graphical representation (e.g., **672***d* in **668**) (e.g., **670***b* and **670***c* in **698**) for the first clinical health record based on the clinical health record data.

[0399] In response to receiving the request, the electronic device displays (**906**), via the display device, the first user interface including a second region (e.g., a different date range in **668**, the medications region in **698**) (**910**) corresponding to a second type of clinical health record (e.g., medications region). The second region includes, in accordance with (**916**) a determination that a second clinical health record of the second type of clinical health record fails to meet the first set of graphing criteria (e.g., the second clinical health record either (1) does not include a range for the second clinical health record or (2) includes binary information (which, in some examples, does not achieve benefit from graphing)), a second textual representation for the second clinical health record based on the clinical health record data, wherein the user interface does not include a graphical representation for the second clinical health record. The second reason includes, in accordance with (**918**) a determination that the second clinical health record meets the first set of graphing criteria (e.g., the second clinical health record includes a range for the second clinical health record and includes non-binary information (which, in some examples, achieves benefit from graphing)), a second graphical representation for the second clinical health record based on the clinical health record data.

[0400] Displaying textual representations or graphical representations for health records provides the user with feedback about whether the health record meets the graphing criteria and enables the user to more quickly and efficient access information related to the record. Providing improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0401] In some embodiments, the first set of graphing criteria are met (e.g., the first set of graphing criteria includes a criterion that is met when the clinic health record includes a range for the clinical health record) for a respective clinical health record when the respective clinical health record (e.g., the first clinical health record) corresponds to health data that includes a range of data (e.g., a minimum and maximum value that defines a range, where a data value corresponding to the respective clinical health record is considered to meet particular criteria (e.g., criteria related to whether the data value is acceptable, such as criteria set by a governing body)) (e.g., **670***b*, **670***c*).

[0402] In some embodiments, the first set of graphing criteria are not met (e.g., the first set of graphing criteria includes a criterion that is met when the clinic health record includes non-binary numeric data) for a respective clinical health record when the respective clinical health record (e.g., the first clinical health record) corresponds to health data that is binary (e.g., having binary states (positive or negative; up or down; prescribed or not prescribed)) (e.g., **698***c*).

[0403] In some embodiments, the first region includes a plurality of representations (e.g., textual representations) of clinical health records. In some embodiments, the plurality of representations is ordered primarily by a date (e.g., chronological by the date, reverse chronologically by the date) and secondarily by a health record type associated with each clinical health record of each representation of the plurality of representations. In some embodiments, record types include medications, lab results, symptoms, ailments, treatments.

[0404] Ordering the representations by date first, then by health record type provides the user with feedback about the corresponding date order of the records and the type of record. Providing improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user

mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0405] In some embodiments, the first region includes a second plurality of representations (e.g., textual representations) of clinical health records. In some embodiments, the second plurality of representations is ordered primarily by a health record type and secondarily by a date (e.g., chronological by the date, reverse chronologically by the date) associated with each clinical health record of each representation of the second plurality of representations. In some embodiments, health record types include medications, lab results, symptoms, ailments, treatments.

[0406] Ordering the representations by health record type first, then by date provides the user with feedback about the corresponding type of record and the date order of the records. Providing improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0407] In some embodiments, the first region includes a third plurality of representations (e.g., textual representations) of clinical health records that each correspond to a clinical health record that is associated with a first date (e.g., a date of when the record was received (e.g., received by the electronic device)) and a second date (e.g., a date corresponding to a health event (e.g., when a test was performed, when a prescription was written) of the clinical health record) different from the first date. In some embodiments, the third plurality of representations is ordered by, in accordance with a determination that the first user interface is a user interface of a first interface type (e.g., a summary user interface), the first date. In some embodiments, the third plurality of representations is ordered by, in accordance with a determination that the first user interface is a user interface of a second interface type (e.g., a user interface for a specific type of health data) different from the first interface type, the second date.

[0408] Note that details of the processes described above with respect to method **900** (e.g., FIGS. **9**A-**9**B) are also applicable in an analogous manner to the methods described below/above. For example, methods **700**, **800**, **1000**, **1100**, and **1400** optionally include one or more of the characteristics of the various methods described above with reference to method **900**. For brevity, these details are not repeated below.

[0409] FIGS. **10**A-**10**B is a flow diagram illustrating a method for managing display of clinical health record representations using an electronic device in accordance with some embodiments. Method **1000** is performed at a device (e.g., **100**, **300**, **500**, **600**) with a display device. Some operations in method **1000** are, optionally, combined, the orders of some operations are, optionally, changed, and some operations are, optionally, omitted.

[0410] As described below, method **1000** provides an intuitive way for managing display of clinical health record representations. The method reduces the cognitive burden on a user for accessing clinical health record, thereby creating a more efficient human-machine interface. For battery-operated computing devices, enabling a user to access clinical health record faster and more efficiently conserves power and increases the time between battery charges.

[0411] The electronic device receives (**1002**) clinical health record data, including: first clinical health record data corresponding to a first type of clinical health record (e.g., medication); and second clinical health record data corresponding to a second type of clinical health record (e.g., lab results) (e.g., **668**). The electronic device receives (**1004**) a request (e.g., a request (e.g., **667**, to view all clinical health records for a health record type) to display a first user interface (e.g., **668**).

[0412] In response to receiving the request, the electronic device displays (**1006**), via the display device, the first user interface (e.g., **668**), including a first representation (e.g., **674***c*), based on the first clinical health record data, for a first clinical health record of the first type of clinical health

record (e.g., an Acetaminophen health record (where the type of clinical health record is a medicine)).

[0413] While displaying the first user interface, the electronic device receives (**1008**) first user input (e.g., **675**) corresponding to selection of the first representation.

[0414] In response to receiving the first user input, the electronic device displays (**1010**), via the display device, a second user interface (e.g., **676**) (e.g., an Acetaminophen user interface with representations for different health records corresponding to Acetaminophen). The second user interface includes a second representation (e.g., **680***a*) (**1012**), based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, wherein the second representation is different from the first representation (e.g., a more-detailed representation for the Acetaminophen health record). The second user interface includes a third representation (e.g., **680***b*) (**1014**), based on the first clinical health record data, for a second clinical health record of the first type of clinical health record, wherein the third representation is different from the second representation and the second clinical health record of the first type is different from the first clinical health record (e.g., a more-detailed representation of another Acetaminophen health record) of the first type.

[0415] While displaying the second user interface, the electronic device receives (**1016**) second user input (e.g., **681**) corresponding to selection of the third representation.

[0416] In response to receiving the second user input, the electronic device displays (**1018**), via the display device, a third user interface (e.g., **682**) (e.g., an Acetaminophen user interface with a detailed representation for a particular Acetaminophen record), including a fourth representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record (e.g., a most-detailed representation for the Acetaminophen health record), wherein the fourth representation is different from the first representation, and wherein the fourth representation is different from the second representation.

[0417] In some embodiments, the request to display the first user interface is received while displaying, via the display device, a fourth user interface (e.g., FIG. **12**AA) that includes a fifth representation, based on the second clinical health record data, for a second clinical health record of the second type of clinical health record (e.g., a Cholesterol health record (where the type of clinical health record is a lab result)).

[0418] In some embodiments, the fourth user interface includes a plurality of representations (e.g., representations of clinical health records of the first type and/or second type) of clinical health records. In some embodiments, the plurality of representations is ordered primarily by a date (e.g., chronological by the date, reverse chronologically by the date) and secondarily by a health record type associated with each clinical health record of each representation of the plurality of representations. In some embodiments, health record types include medications, lab results, symptoms, ailments, treatments.

[0419] Ordering the representations by date first, then by health record type provides the user with feedback about the corresponding date order of the records and the type of record. Providing improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0420] In some embodiments, the second user interface includes a second plurality of representations (e.g., representations of clinical health records of the first type and/or second type) of clinical health records. In some embodiments, the second plurality of representations ordered by a date (e.g., chronological by the date, reverse chronologically by the date).

[0421] Ordering the representations by health record type first, then by date provides the user with feedback about the corresponding type of record and the date order of the records. Providing

improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0422] In some embodiments, in accordance with a first set of graphic criteria is met, the first representation includes a graphical indication of the first clinical health record (e.g., a graph of the health data in the clinical health record). In some embodiments, the first set of graphic criteria are met when the clinical health record includes non-binary numeric data (e.g., data sufficient to provide a multi-point graph). In some embodiments, in accordance with the first set of graphic criteria not being met, the first representation does not include the graphical indication of the first clinical health record (e.g., a graph of the health data in the clinical health record). In some embodiments, the first set of graphic criteria are met when the clinical health record includes non-binary numeric data (e.g., data sufficient to provide a multi-point graph).

[0423] In some embodiments, the first representation includes a first detail (e.g., first information, first piece of data, within the record) of the first clinical health record. In some embodiments, the second representation includes the first detail and a second detail, different from the first detail, of the first clinical health record. In some embodiments, the fourth representation includes the first detail, the second detail, and a third detail, different from the first and second details, of the first clinical health record. In some embodiments, the representation of the first clinical health record becomes progressive more detailed, as the hierarchy of the user interface is traversed.

[0424] In some embodiments, the second user interface includes a graphical representation (e.g., a graph) of a first portion (e.g., a portion corresponding to a first time period) of the first clinical health record data. In some embodiments, the graphical representation includes an indication of a relationship (e.g., a comparison) between a first sub-portion of the first clinical health record data and a second sub-portion of the first clinical health record data.

[0425] In some embodiments, the second user interface includes a first affordance. In some embodiments, the electronic device receives an input corresponding to selection of the first affordance. In some embodiments, in response to receiving the input corresponding to selection of the first affordance, the electronic device visually distinguishes (e.g., emphasizing, highlighting, deemphasizing) a portion of the graphical representation that corresponds to a first sub-portion of the first portion of the first clinical health record data that matches a first filter condition (e.g., a filter that identifies data that falls outside of a clinical range (e.g., a healthy range) for the first clinical health record data).

[0426] Visually distinguishing a portion of the graphical representation that corresponds to an aspect that matches a first filter condition provides the user with feedback that the first filter condition has been matched. Providing improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0427] In some embodiments, the first clinical health record of the first type of clinical health record was received from (e.g., was sourced from, was generated by) a first data source (e.g., data supplier; a clinical health data source (e.g., a clinician)). In some embodiments, the second clinical health record of the first type of clinical health record was received from a second data source that is different from the first data source.

[0428] In some embodiments, the fourth representation includes an indication of a data source (e.g., data provider) of the first clinical health record. In some embodiments, the fourth representation includes an indication of a primary identifier (e.g., a primary name, such as Hemoglobin A1c) of the first type of clinical health record and a secondary identifier (e.g., secondary or alternative

name, such as Gylcated Hemoglobin, Glycosylated Hemoglobin, and HbA1c) of the first type of clinical health record. In some embodiments, the fourth representation includes an indication of a first date corresponding to when the first clinical health record was received by the electronic device and an indication of a second date corresponding to when the first clinical health record was created (e.g., created by the electronic device or externally).

[0429] Note that details of the processes described above with respect to method **1000** (e.g., FIGS. **10**A-**10**B) are also applicable in an analogous manner to the methods described below/above. For example, methods **700**, **800**, **900**, **1100**, and **1400** optionally include one or more of the characteristics of the various methods described above with reference to method **1000**. For brevity, these details are not repeated below.

[0430] FIGS. **11**A-**11**C is a flow diagram illustrating a method for display of health-related information using an electronic device in accordance with some embodiments. Method **1100** is performed at a device (e.g., **100**, **300**, **500**, **600**) with a display device. Some operations in method **1100** are, optionally, combined, the orders of some operations are, optionally, changed, and some operations are, optionally, omitted.

[0431] As described below, method **1100** provides an intuitive way for display of health-related information. The method reduces the cognitive burden on a user for viewing health-related information, thereby creating a more efficient human-machine interface. For battery-operated computing devices, enabling a user to view health-related information faster and more efficiently conserves power and increases the time between battery charges.

[0432] The electronic device receives (**1102**) request (e.g., request to view search user interface **684**) to display a first user interface (e.g., search user interface **684**) (e.g., a request to view a search tab of a health application, such as a user tapping on an icon for the health application or a user tapping on an affordance for the search tab).

[0433] In response to receiving the first request, the electronic device displays (**1104**), via the display device, the first user interface (e.g., search user interface **684**) (e.g., the search tab of the health application). The first user interface includes a first portion (e.g., **684**c) (**1106**) (e.g., a health category section), including a first category affordance (e.g., **684**ca) (e.g., activity affordance) (e.g., a category of health data; a category of biometric sensor data; an activity category). The first user interface includes a second portion (e.g., **684**b) (**1108**) (e.g., a shared health data section) including a first shared affordance (e.g., **684**ba) (e.g., Little Appleseed affordance) corresponding to a second user account (e.g., Little Appleseed account). In some embodiments, the second portion is included in the first user interface in accordance with a determination that the first user account is associated with a second user account (e.g., a child account) different from the first user account.

[0434] While (**1110**) displaying the first user interface, the electronic device receives (**1112**) first user input corresponding to selection of the first category affordance. While (**1110**) displaying the first user interface, the electronic device receives (**1114**) second user input corresponding to selection of the first shared affordance.

[0435] In response to receiving the first user input, the electronic device displays (**1116**), via the display device, a second user interface (e.g., **686**) (e.g., a user interface with health data for the selected health category, such as activity, for a user's account associated with the electronic device), including a representation (e.g., **686**a) of first health data (e.g., a first discrete health record) associated with the first user account for the first category (e.g., activity).

[0436] In response to receiving the second user input, the electronic device displays (**1118**), via the display device, a third user interface (e.g., **690**) (e.g., a user interface with health categories for Little Appleseed). The third user interface includes a first portion (e.g., **692**b). The first portion includes a second category affordance (e.g., an activity affordance) corresponding to health data associated with the second user account for the first category (e.g., activity).

[0437] While displaying the third user interface, the electronic device receives (**1120**) third user input corresponding to selection of the second category affordance. In response to receiving the

third user input, the electronic device displays (**1122**), via the display device, a fourth user interface (e.g., **694**) (e.g., a user interface with health data for the selected health category, such as activity, for Little Appleseed), including a representation (e.g., **694***c*) of health data associated with the second user account for the first category.

[0438] In some embodiments, the first health data associated with the first user account for the first category is also associated with the first user account for a second category (e.g., the first health data is represented in multiple categories accessible from the first user interface). In some embodiments, the first user interface includes a second category affordance corresponding to health data associated with the first user account for a second category different from the first category and, in response to a user input corresponding to the second category affordance, an additional (e.g., a fourth) user interface is displayed that includes the first health data (e.g., **688**).

[0439] In some embodiments, the fourth user interface does not include an option (e.g., an editing affordance; any options) for modifying the representation of health data associated with the second user account for the first category (or, in some embodiments, for modifying the health data associated with the second user account for the first category).

[0440] In some embodiments, while displaying the first user interface, the electronic device receives a first set of inputs corresponding to a request to search health data accessible to the electronic device (e.g., health data stored on the electronic device, health data stored on a remote device (e.g., a server) that is accessible to the electronic device), including one or more inputs corresponding to entry of a search string (e.g., a text string of one or more characters). In some embodiments, the first user interface includes a search field and the one or more inputs correspond to entry of the search string are provided in the search field (e.g., FIG. **6**U).

[0441] In some embodiments, in response to receiving the set of inputs, the electronic device displays a plurality of search results including: a first set of one or more search results including a representation of second health data associated with the first user account, wherein the second health data associated with the first user account is associated with a first source (e.g., one or more sensors of the electronic device, one or more sensors of an external device that is associated with the first user account, an external device that is not associated with the first user account (e.g., a clinical source)); and a second set of one or more search results including a representation of third health data associated with the first user account, wherein the third health data associated with the first user account is associated with a second source different from the first source (e.g., FIG. **6**U).

[0442] Displaying search results including representations of health data from different sources provides the user with feedback about health data from varying sources on a single user interface. Providing improved visual feedback to the user enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0443] In some embodiments, as a part of displaying the plurality of search results, the electronic device ceases to display the first portion and the second portion of the first user interface (e.g., FIG. **6**U).

[0444] Ceasing to display the first portion and the second portion of the first user interface enables the device to display other content at those same locations. Increasing the availability of display space for content enhances the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0445] In some embodiments, the first user interface includes a third portion (e.g., **684***d*) including a first health record affordance that, when selected, displays a representation of health data associated with the first user account that was received from a first external source (e.g., clinical

health records; health records provided by a medical professional).

[0446] In some embodiments, the representation of health data associated with the first user account for the first category corresponds to health data that satisfied a set of formatting criteria (e.g., a set of criteria that governs whether data is displayable in the second user interface). In some embodiments, health data (e.g., clinical health data) that is accessible to the first electronic device is sorted based on whether the data is in a format that can be parsed by one or more parsing processes. In some embodiments, the third portion includes a first affordance. In some embodiments, the electronic device receives a fourth user input corresponding to selection of the first affordance. In some embodiments, in response to receiving the fourth user input, the electronic device displays a set of health data that did not satisfy the set of formatting criteria (e.g., **684***f*).

[0447] Note that details of the processes described above with respect to method **1100** (e.g., FIGS. **11**A-**11**C) are also applicable in an analogous manner to the methods described below/above. For example, methods **700**, **800**, **900**, **1000**, and **1400** optionally include one or more of the characteristics of the various methods described above with reference to method **1100**. For brevity, these details are not repeated below.

[0448] FIGS. **12**AA-**12**AB depict an all health data user interface. In some examples, the all health data user interface is displayed in response to selection of all health data affordance **628** depicted in FIG. **6**DA. FIGS. **12**BA-**12**BB depict an XYZ Medical Center user interface. In some examples, the XYZ Medical Center user interface is displayed in response to selection of third notification affordance **620** depicted in FIG. **6**DA, first health records affordance **636** depicts in FIG. **6**DC, or title **670***a* depicted in FIG. **6**PA. FIG. **12**C depicts an albuterol user interface. In some examples, the albuterol user interface is displayed in response to selection of albuterol affordance in FIG. **12**BA. FIG. **12**D depicts a hematocrit user interface. In some examples, the hematocrit user interface is displayed in response to selection of hematocrit affordance in FIG. **6**PB, hematocrit affordance in FIG. **6**Q, or hematocrit affordance in FIG. **12**BB. FIGS. **12**E-**12**F depicts a medications user interface. In some examples, the medications user interface is displayed in response to selection of affordance **666**F in FIG. **60**B, medications affordance in FIG. **12**AA, or medications affordance in FIG. **12**BA. FIGS. **12**G-**12**I depicts user interfaces related to a profile. In some examples, the user interface are navigated to by selecting a picture on a user interface matching the picture at the top of FIG. **12**G.

[0449] FIGS. **13**A-**13**G illustrate exemplary user interfaces related to sharing health data, in accordance with some embodiments. The user interfaces in these figures are used to illustrate the processes described below, including the processes in FIGS. **14**A-**14**B.

[0450] FIG. **13**A depicts first electronic device **600** displaying health user interface **1304** via touch-sensitive display device **602** at a first time. In some examples, first electronic device **600** includes one or more features of devices **100**, **300**, **500**, **606**.

[0451] Health user interface **1304** relates to health data for a user associated with first electronic device **600** (e.g., the user logged into a first account via first electronic device **600**). Health user interface **1304** includes a number of affordances, including child's health data affordance **1304***a*. In some examples, selection of child's health data affordance **1304***a* causes a user interface (e.g., share user interface **1306** as depicted in FIG. **13**B) to be displayed, as further discussed below.

[0452] FIG. **13**A depicts first electronic device **600** receiving user input **1305** corresponding to child's health data affordance **1304***a*. In some examples, user input **1305** is received via touch-sensitive display device **602** and corresponds to a selection gesture (e.g., tap) on child's health data affordance **1304***a*. In other examples, other forms of selection can be used, such as a click using a mouse. In some examples, user input **1305** causes a different user interface to be displayed via touch-sensitive display device **602**, such as display of share user interface **1306** as depicted in FIG. **13**B. In other examples, user input **1305** causes a request to be sent to a second electronic device requesting for the second electronic device to share health data with first electronic device **600**. In such examples, the second electronic device is associated with a second account different from but

linked to the first account (e.g., the second account corresponds to a child account of the first account).

[0453] FIG. **13**B depicts first electronic device **600** displaying share user interface **1306** via touch-sensitive display device **602** at a second time after the first time. In some examples, share user interface **1306** is displayed in response to (e.g., without any additional user input) selection of child's health data affordance **1304***a* on health user interface **1304**, as depicted in **13**A.

[0454] Share user interface **1306** includes request affordance **1304***a*. Selection of request affordance **1304***a* causes a request to be sent to a second electronic device (e.g., second electronic device **1308**) for the second electronic device to share health data with first electronic device **600**. In some examples, before displaying share user interface **1306**, a user interface to identify an account for which to request to share is displayed (e.g., to identify Emma's account) (not illustrated).

[0455] FIG. **13**C depicts second electronic device **1308** displaying notification **1312** via touch-sensitive display device **1310** at a third time after the second time. In some examples, notification **1312** is a notification that was issued (e.g., caused to be displayed by second electronic device **1308**) from a process executing on second electronic device **1308**. For example, the process can be a health process associated with a health application. In some examples, notification **1312** is issued in response to a determination that a user associated with first electronic device **600** has requested for second electronic device **1308** to share health data with first electronic device **600**, as depicted in FIG. **13**B.

[0456] As depicted in FIG. **13**C, notification **1312** includes allow affordance **1323***a* and don't allow affordance **1323***b*. Selection of allow affordance **1323***a* causes second electronic device **1308** to initiate a process for sending health data to first electronic device **600**. For example, second electronic device **1308** transitions into a mode where new health data that is associated with second electronic device **1308** is sent to first electronic device **600** for display via first electronic device **600**. In some examples, selection of allow affordance **1323***a* also causes second electronic device **1308** to initiate a process for sending old health data to first electronic device **600** (e.g., health data associated with second electronic device **1308** that was obtained before selection of allow affordance **1323***a*).

[0457] In some examples, selection of don't allow affordance **1323***b* causes second electronic device **1308** to not share health data with first electronic device **600**. In some examples, selection of don't allow affordance **1323***b* also causes health data from second electronic device **1308** to not be backed up to another device (e.g., a backup server) due to the selection causing there to not be memory allocated for second electronic device **1308** on a backup server (e.g., health cloud space is not created for the second account when second electronic device **1308** selects don't allow affordance **1323***b*). In other examples, selection of don't allow affordance **1323***b* causes health data from second electronic device **1308** to still be backed up to another device (e.g., a backup server) (e.g., health cloud space is created for the second account when second electronic device **1308** selects don't allow affordance **1323***b*). In some examples, backup data associated with second electronic device **1308** is separate from backup data associated with first electronic device **600** (e.g., first electronic device **600** stores its health data in a separate location from second electronic device **1308**).

[0458] FIG. **13**D depicts first electronic device **600** displaying health user interface **1304** via touch-sensitive display device **602** at a fourth time after the third time. Health user interface **1304** depicted in FIG. **13**D is the same user interface depicted in FIG. **13**A. The difference with health user interface **1304** as depicted in FIG. **13**D is that it includes health data section **1314** with multiple affordances associated with second electronic device **1308**. In some examples, health data section **1314** is included in health user interface **1304** in response to selection of allow affordance **1323***a* on second electronic device **1308** (as depicted in FIG. **13**C).

[0459] Health data section **1314** includes health data affordance **1314***a* and stop affordance **1314***b*.

In some examples, health data affordance **1314***a*, when selected, causes first electronic device **600** to display a user interface (e.g., a user interface corresponding to the health application) with health data corresponding to Emma (e.g., the user associated with second electronic device **1308**). An example of such a user interface is depicted in FIGS. **6**XA-**6**XB.

[0460] In some examples, stop affordance **1314***b*, when selected, causes first electronic device **600** to (1) stop receiving health data corresponding to second electronic device **1308** and (2) delete any health data corresponding to second electronic device **1308** that is stored in memory associated with first electronic device **600** (e.g., health data corresponding to second electronic device **1308** is not deleted from second electronic device **1308** or another device used to backup health data corresponding to second electronic device **1308** (e.g., a backup server)).

[0461] FIG. **13**E depicts second electronic device **1308** displaying notification **1316** via touch-sensitive display device **1310** at a fifth time after the fourth time. In some examples, notification **1316** is a notification that was issued (e.g., caused to be displayed by second electronic device **1308**) from a process executing on second electronic device **1308**. For example, the process can be a health process associated with a health application. In some examples, notification **1316** is issued in response to a determination that second electronic device **1308** is sharing health data with first electronic device **600** and a predefined, non-zero amount of time (e.g., a few days, a few weeks, a few months, or the like) has passed since second electronic device **1308** has begun sharing health data with first electronic device **600**. In some examples, multiple such notifications are issued at different times.

[0462] As depicted in FIG. **13**E, notification **1318** includes view affordance **1316***a* and dismiss affordance **1316***b*. Selection of view affordance **1316***a* causes second electronic device **1308** to display a different user interface via touch-sensitive display device **602**, such as sharing options user interface **1318** as depicted in FIG. **13**F. In other examples, selection of view affordance **1316***a* causes first electronic device **600** to (1) stop receiving health data corresponding to second electronic device **1308** and (2) delete any health data corresponding to second electronic device **1308** that is stored in memory associated with first electronic device **600** (e.g., health data corresponding to second electronic device **1308** is not deleted from second electronic device **1308** or another device used to backup health data corresponding to second electronic device **1308** (e.g., a backup server)). Selection of dismiss affordance **1316***b* causes second electronic device **1308** to forgo display of notification **1316**.

[0463] FIG. **13**E depicts second electronic device **1308** receiving user input **1317** corresponding to view affordance **1316***a*. In some examples, user input **1317** is received via touch-sensitive display device **1310** and corresponds to a selection gesture (e.g., tap) on view affordance **1316***a*. In other examples, other forms of selection can be used, such as a click using a mouse. As discussed above, in some examples, user input **1317** causes a different user interface to be displayed (e.g., sharing options user interface **1318**, as depicted in FIG. **13**F).

[0464] FIG. **13**F depicts second electronic device **1308** displaying sharing options user interface **1318** via touch-sensitive display device **1310** at a sixth time after the fifth time. In some examples, sharing options user interface **1318** is displayed in response to (e.g., without any additional user input) selection of view affordance **1316***a* on notification **1316**, as depicted in **13**E.

[0465] Sharing options user interface **1318** includes stop affordance **1318***a*, backup affordance **1318***b*, and off affordance **1318***c*. Selection of stop affordance **1318***a* causes second electronic device **1308** to initiate a process to stop sharing health data with first electronic device **600**. The process causes first electronic device **600** to (1) stop receiving health data corresponding to second electronic device **1308** and (2) delete any health data corresponding to second electronic device **1308** that is stored in memory associated with first electronic device **600** (e.g., health data corresponding to second electronic device **1308** is not deleted from second electronic device **1308** or another device used to backup health data corresponding to second electronic device **1308** (e.g., a backup server)). In some examples, selection of stop affordance **1318***a* causes multiple devices

(in addition to first electronic device **600**) (e.g., all devices for which second electronic device **1308** is sharing health data with) to (1) stop receiving health data corresponding to second electronic device **1308** and (2) delete any health data corresponding to second electronic device **1308** that is stored in memory associated with the respective device **600** (e.g., health data corresponding to second electronic device **1308** is not deleted from second electronic device **1308** or another device used to backup health data corresponding to second electronic device **1308** (e.g., a backup server)).

[0466] In some examples, selection of stop affordance **1318***a* does not stop second electronic device **1308** from sharing health data with another device used to backup health data corresponding to second electronic device **1308** (e.g., a backup server) (e.g., second electronic device **1308** continues to backup health data to the backup server). In some examples, selection of stop affordance **1318***a* also causes health data section **1314** to be removed from health user interface **1304** on first electronic device **600**. In some examples, when first electronic device **600** is receiving health data from at least one other device according to techniques described herein, selection of stop affordance **1318***a* causes user interface elements related to second electronic device **1308** to be removed from health data section **1314** but health data section **1314** will still be included in health user interface **1304** on first electronic device **600** for the other device.

[0467] Selection of backup affordance **1318***b* causes second electronic device **1308** to stop sending health data to another device used to backup health data corresponding to second electronic device **1308** (e.g., a backup server). In some examples, selection of backup affordance **1318***b* also causes the other device to delete health data corresponding to second electronic device **1308** such that the health data corresponding to second electronic device **130** is only stored on second electronic device **1308**.

[0468] Selection of off affordance **1318***c* causes second electronic device **1308** to (1) turn off (e.g., stop) collection of health data corresponding to second electronic device **1308**, (2) stop sending health data to another device used to backup health data corresponding to second electronic device **1308** (e.g., a backup server), (3) cause other devices to delete health data corresponding to second electronic device **1308** such that the health data corresponding to second electronic device **1308** is not stored on other devices, or (4) any combination thereof.

[0469] FIG. **13**F depicts second electronic device **1308** receiving user input **1319** corresponding to stop affordance **1318***a*. In some examples, user input **1319** is received via touch-sensitive display device **1310** and corresponds to a selection gesture (e.g., tap) on stop affordance **1318***a*. In other examples, other forms of selection can be used, such as a click using a mouse. As discussed above, in some examples, user input **1318***a* causes second electronic device **1308** to initiate a process to stop sharing health data with first electronic device **600**. The process causes first electronic device **600** to (1) stop receiving health data corresponding to second electronic device **1308**, (2) delete any health data corresponding to second electronic device **1308** that is stored in memory associated with first electronic device **600** (e.g., health data corresponding to second electronic device **1308** is not deleted from second electronic device **1308** or another device used to backup health data corresponding to second electronic device **1308** (e.g., a backup server)), and (3) health data section **1314** to be removed from health user interface **1304** on first electronic device **600**, as depicted in **13**G.

[0470] FIG. **13**G depicts first electronic device **600** displaying health user interface **1304** via touch-sensitive display device **602** at a seventh time after the sixth time. As depicted in FIG. **13**G, health user interface **1304** no longer includes health data section **1314** (as depicted in FIG. **13**D).

[0471] FIGS. **14**A-**14**B is a flow diagram illustrating a method for managing shared health data using an electronic device in accordance with some embodiments. Method **1400** is performed at a device (e.g., **100**, **300**, **500**, **600**, **606**, **1308**) with a display device. Some operations in method **1400** are, optionally, combined, the orders of some operations are, optionally, changed, and some operations are, optionally, omitted.

[0472] As described below, method **1400** provides an intuitive way for related to sharing health

data. The method reduces the cognitive burden on a user for managing shared health data, thereby creating a more efficient human-machine interface. For battery-operated computing devices, enabling a user to manage shared health data faster and more efficiently conserves power and increases the time between battery charges.

[0473] The first electronic device receives (**1402**) a request (e.g., **1307**) to share health data associated with (e.g., detected by) the first electronic device. In some embodiments, the request to share is sent to the first electronic device in response to a second electronic device requesting that the first electronic device share health data.

[0474] In response to receiving the request, the first electronic device displays (**1404**), via the display device at a first time, a first notification (e.g., **1312**) (e.g., a notification indicating that the second electronic device is requesting that the first electronic device share health data with the first electronic device), including a first affordance (e.g., **1323***a*) (e.g., an allow affordance) that, when selected, initiates a process for sharing of health data, associated with the first electronic device, with a second electronic device.

[0475] While displaying the notification, the first electronic device receives (**1406**) a first user input corresponding to selection of the first affordance.

[0476] In response to receiving the first user input, the first electronic device initiates (**1408**) a process for sharing of health data, associated with the first electronic device, with the second electronic device.

[0477] After (**1410**) receiving the first user input, the first electronic device shares (**1412**) health data associated with the first electronic device with the second electronic device. In some embodiments, the sending is performed in response to receiving the first user input. After (**1410**) receiving the first user input, the first electronic device displays (**1414**), via the display device at a second time, a second notification (e.g., **1316**) (e.g., a notification to confirm that a user associated with the first electronic device wishes to share health data with the second electronic device) corresponding to the sharing of health data, the second notification including a second affordance (e.g., **1316***a*) that, when selected, initiates a process to end sharing of health data, associated with the first electronic device, with the second electronic device. In some embodiments, the second notification is displayed at a different time than the sending, such as a few days after receiving the first user input. In some embodiments, the second notification is displayed after the sending. In some embodiments, while displaying the second notification, receiving a set of one or more inputs that includes an input corresponding to selection of a third affordance (e.g., **1318***a*); and in response to receiving the set of one or more inputs (e.g., **1319**), ceasing to share health data, associated with the first electronic device, with the second electronic device.

[0478] Displaying a notification that enables a user to end sharing of health data provides the user with feedback that the health data is being shared and enables the user to more efficiently access the interface for ending the sharing of the health data. Providing improved visual feedback to the user and reducing the number of inputs needed to perform an operation enhance the operability of the device and makes the user-device interface more efficient (e.g., by helping the user to provide proper inputs and reducing user mistakes when operating/interacting with the device) which, additionally, reduces power usage and improves battery life of the device by enabling the user to use the device more quickly and efficiently.

[0479] In some embodiments, while displaying the second notification, the first electronic device receives a set of one or more inputs that includes an input corresponding to selection of the second affordance (e.g., **1317**). In some embodiments, in response to receiving the set of one or more inputs, the first electronic device ceases to share health data, associated with the first electronic device, with the second electronic device.

[0480] In some embodiments, after receiving the first user input, the first electronic device shares health data associated with the first electronic device with a third electronic device (e.g., a server storing health related data associated with the first electronic device). In some embodiments, after

receiving the set of one or more inputs, the first electronic device continues to share health data associated with the first electronic device with the third electronic device (e.g., selection of the second affordance does not cause the device to stop sharing health data with the third electronic device).

[0481] In some embodiments, the first notification includes a third affordance (e.g., **1323***b*) (e.g., a "do not allow sharing" affordance) that, when selected: causes the first electronic device to forgo initiating a process for sharing of health data, associated with the first electronic device, with the second electronic device (and, in some embodiments, transmitting information to the second electronic device indicating that the request to share health data was not granted); and causes the first electronic device to transmit a request to a fourth electronic device (e.g., a server storing health related data associated with the first electronic device) to accept health data (e.g., to allocate storage resources to accept health data) associated with the first electronic device.

[0482] In some embodiments, the first notification includes a fourth affordance (e.g., **1323***b*) (e.g., a "do not allow sharing" affordance) that, when selected: causes the first electronic device to forgo initiating a process for sharing of health data, associated with the first electronic device, with the second electronic device (and, in some embodiments, transmitting information to the second electronic device indicating that the request to share health data was not granted); and causes the first electronic device to transmit a request to a fifth electronic device (e.g., a server storing health related data associated with the first electronic device) to accept health data (e.g., to allocate storage resources to accept health data) associated with the first electronic device.

[0483] In some embodiments, the first electronic device is associated with a first user account (e.g., a primary user account; a health-related user account) and second electronic device is associated with a second user account that is different from the first user account.

[0484] Note that details of the processes described above with respect to method **1400** (e.g., FIGS. **14**A-**14**B) are also applicable in an analogous manner to the methods described below/above. For example, methods **700**, **800**, **900**, **1000**, and **1100** optionally include one or more of the characteristics of the various methods described above with reference to method **1400**. For brevity, these details are not repeated below.

[0485] FIGS. **15**A-**5**F depict a flow through a heath user interface within a settings user interface on second electronic device **1308**.

[0486] The foregoing description, for purpose of explanation, has been described with reference to specific embodiments. However, the illustrative discussions above are not intended to be exhaustive or to limit the invention to the precise forms disclosed. Many modifications and variations are possible in view of the above teachings. The embodiments were chosen and described in order to best explain the principles of the techniques and their practical applications. Others skilled in the art are thereby enabled to best utilize the techniques and various embodiments with various modifications as are suited to the particular use contemplated.

[0487] Although the disclosure and examples have been fully described with reference to the accompanying drawings, it is to be noted that various changes and modifications will become apparent to those skilled in the art. Such changes and modifications are to be understood as being included within the scope of the disclosure and examples as defined by the claims.

[0488] As described above, one aspect of the present technology is the gathering and use of data available from various sources to improve the management and delivery of health information to users. The present disclosure contemplates that in some instances, this gathered data can include personal information data that uniquely identifies or can be used to contact or locate a specific person. Such personal information data can include demographic data, location-based data, telephone numbers, email addresses, twitter IDs, home addresses, data or records relating to a user's health or level of fitness (e.g., vital signs measurements, medication information, exercise information), date of birth, or any other identifying or personal information.

[0489] The present disclosure recognizes that the use of such personal information data, in the

present technology, can be used to the benefit of users. For example, the personal information data can be used to deliver appropriate notifications and health summaries to the user. Accordingly, use of such personal information data enables users to manage their health information more efficiently. Further, other uses for personal information data that benefit the user are also contemplated by the present disclosure. For instance, health and fitness data can be used to provide insights into a user's general wellness, or can be used as positive feedback to individuals using technology to pursue wellness goals.

[0490] The present disclosure contemplates that the entities responsible for the collection, analysis, disclosure, transfer, storage, or other use of such personal information data will comply with well-established privacy policies and/or privacy practices. In particular, such entities should implement and consistently use privacy policies and practices that are generally recognized as meeting or exceeding industry or governmental requirements for maintaining personal information data private and secure. Such policies should be easily accessible by users, and should be updated as the collection and/or use of data changes. Personal information from users should be collected for legitimate and reasonable uses of the entity and not shared or sold outside of those legitimate uses. Further, such collection/sharing should occur after receiving the informed consent of the users. Additionally, such entities should consider taking any needed steps for safeguarding and securing access to such personal information data and ensuring that others with access to the personal information data adhere to their privacy policies and procedures. Further, such entities can subject themselves to evaluation by third parties to certify their adherence to widely accepted privacy policies and practices. In addition, policies and practices should be adapted for the particular types of personal information data being collected and/or accessed and adapted to applicable laws and standards, including jurisdiction-specific considerations. For instance, in the US, collection of or access to certain health data may be governed by federal and/or state laws, such as the Health Insurance Portability and Accountability Act (HIPAA); whereas health data in other countries may be subject to other regulations and policies and should be handled accordingly. Hence different privacy practices should be maintained for different personal data types in each country.

[0491] Despite the foregoing, the present disclosure also contemplates embodiments in which users selectively block the use of, or access to, personal information data. That is, the present disclosure contemplates that hardware and/or software elements can be provided to prevent or block access to such personal information data. For example, in the case of accessing or storing health information, the present technology can be configured to allow users to select to "opt in" or "opt out" of participation in the collection of personal information data during registration for services or anytime thereafter. In another example, users can select not to provide certain types of health-related information. In yet another example, users can select to limit the length of time health-related information is maintained or entirely prohibit the storage of health-related information. In addition to providing "opt in" and "opt out" options, the present disclosure contemplates providing notifications relating to the access or use of personal information. For instance, a user may be notified upon downloading an app that their personal information data will be accessed and then reminded again just before personal information data is accessed by the app.

[0492] Moreover, it is the intent of the present disclosure that personal information data should be managed and handled in a way to minimize risks of unintentional or unauthorized access or use. Risk can be minimized by limiting the collection of data and deleting data once it is no longer needed. In addition, and when applicable, including in certain health related applications, data de-identification can be used to protect a user's privacy. De-identification may be facilitated, when appropriate, by removing specific identifiers (e.g., date of birth, etc.), controlling the amount or specificity of data stored (e.g., collecting location data a city level rather than at an address level), controlling how data is stored (e.g., aggregating data across users), and/or other methods.

[0493] Therefore, although the present disclosure broadly covers use of personal information data to implement one or more various disclosed embodiments, the present disclosure also contemplates

that the various embodiments can also be implemented without the need for accessing such personal information data. That is, the various embodiments of the present technology are not rendered inoperable due to the lack of all or a portion of such personal information data.

Claims

1. An electronic device, comprising: a display device; one or more processors; and memory storing one or more programs configured to be executed by the one or more processors, the one or more programs including instructions for: receiving clinical health record data, including: first clinical health record data corresponding to a first type of clinical health record; and second clinical health record data corresponding to a second type of clinical health record; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface, including: a first representation, based on the first clinical health record data, for a first clinical health record of the first type of clinical health record; while displaying the first user interface, receiving first user input corresponding to selection of the first representation; in response to receiving the first user input: displaying, via the display device, a second user interface, including: a second representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, wherein the second representation is different from the first representation; and a third representation, based on the first clinical health record data, for a second clinical health record of the first type of clinical health record, wherein the third representation is different from the second representation and the second clinical health record of the first type is different from the first clinical health record of the first type; while displaying the second user interface, receiving second user input corresponding to selection of the third representation; and in response to receiving the second user input: displaying, via the display device, a third user interface, including a fourth representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, wherein the fourth representation is different from the first representation, and wherein the fourth representation is different from the second representation.

2. The electronic device of claim 1, wherein the request to display the first user interface is received while displaying, via the display device, a fourth user interface that includes a fifth representation, based on the second clinical health record data, for a second clinical health record of the second type of clinical health record.

3. The electronic device of claim 2, wherein: the fourth user interface includes a plurality of representations of clinical health records; and the plurality of representations is ordered primarily by a date and secondarily by a health record type associated with each clinical health record of each representation of the plurality of representations.

4. The electronic device of claim 1, wherein: the second user interface includes a second plurality of representations of clinical health records; and the second plurality of representations ordered by a date.

5. The electronic device of claim 1, wherein the first representation: in accordance with a first set of graphic criteria is met, includes a graphical indication of the first clinical health record; and in accordance with the first set of graphic criteria not being met, does not include the graphical indication of the first clinical health record.

6. The electronic device of claim 1, wherein: the first representation includes a first detail of the first clinical health record; the second representation includes the first detail and a second detail, different from the first detail, of the first clinical health record; and the fourth representation includes the first detail, the second detail, and a third detail, different from the first and second details, of the first clinical health record.

7. The electronic device of claim 1, wherein: the second user interface includes a graphical representation of a first portion of the first clinical health record data.

8. The electronic device of claim 7, wherein the second user interface includes a first affordance, the one or more programs further including instructions for: receiving an input corresponding to selection of the first affordance; and in response to receiving the input corresponding to selection of the first affordance, visually distinguishing a portion of the graphical representation that corresponds to a first sub-portion of the first portion of the first clinical health record data that matches a first filter condition.

9. The electronic device of claim 1, wherein: the first clinical health record of the first type of clinical health record was received from a first data source; and the second clinical health record of the first type of clinical health record was received from a second data source that is different from the first data source.

10. The electronic device of claim 1, wherein the fourth representation includes an indication of a data source of the first clinical health record.

11. The electronic device of claim 1, wherein the fourth representation includes an indication of a primary identifier of the first type of clinical health record and a secondary identifier of the first type of clinical health record.

12. The electronic device of claim 1, wherein the fourth representation includes an indication of a first date corresponding to when the first clinical health record was received by the electronic device and an indication of a second date corresponding to when the first clinical health record was created.

13. A non-transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of an electronic device with a display device, the one or more programs including instructions for: receiving clinical health record data, including: first clinical health record data corresponding to a first type of clinical health record; and second clinical health record data corresponding to a second type of clinical health record; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface, including: a first representation, based on the first clinical health record data, for a first clinical health record of the first type of clinical health record; while displaying the first user interface, receiving first user input corresponding to selection of the first representation; in response to receiving the first user input: displaying, via the display device, a second user interface, including: a second representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, wherein the second representation is different from the first representation; and a third representation, based on the first clinical health record data, for a second clinical health record of the first type of clinical health record, wherein the third representation is different from the second representation and the second clinical health record of the first type is different from the first clinical health record of the first type; while displaying the second user interface, receiving second user input corresponding to selection of the third representation; and in response to receiving the second user input: displaying, via the display device, a third user interface, including a fourth representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, wherein the fourth representation is different from the first representation, and wherein the fourth representation is different from the second representation.

14. A method, comprising: at an electronic device with a display device: receiving clinical health record data, including: first clinical health record data corresponding to a first type of clinical health record; and second clinical health record data corresponding to a second type of clinical health record; receiving a request to display a first user interface; in response to receiving the request, displaying, via the display device, the first user interface, including: a first representation, based on the first clinical health record data, for a first clinical health record of the first type of clinical health record; while displaying the first user interface, receiving first user input corresponding to selection of the first representation; in response to receiving the first user input: displaying, via the display device, a second user interface, including: a second representation,

based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, wherein the second representation is different from the first representation; and a third representation, based on the first clinical health record data, for a second clinical health record of the first type of clinical health record, wherein the third representation is different from the second representation and the second clinical health record of the first type is different from the first clinical health record of the first type; while displaying the second user interface, receiving second user input corresponding to selection of the third representation; and in response to receiving the second user input: displaying, via the display device, a third user interface, including a fourth representation, based on the first clinical health record data, for the first clinical health record of the first type of clinical health record, wherein the fourth representation is different from the first representation, and wherein the fourth representation is different from the second representation.