

WHAT IS CLAIMED IS:

1. A method for form operation on a mobile terminal, the method comprising:
adding a hand gesture to a correspondence by detecting an input customized hand gesture on a screen and storing the detected customized hand gesture in the correspondence;

detecting an input hand gesture on a screen, and acquiring a trajectory of the input hand gesture;

matching, in accordance with hand-gesture comparison rules, the acquired trajectory of the input hand gesture with one or more hand gestures of a hand-gesture trigger template included in the correspondence and having a higher priority in accordance with priorities of hand-gesture trigger templates, wherein the priorities of hand-gesture trigger templates are sorted in accordance with historically cumulative operational numbers of hand gestures in the templates;

triggering a corresponding form operation in response to a match,

wherein detecting the input customized hand gesture on the screen includes:

determining whether complexity of the detected customized hand gesture meets a criterion; and

in response to the complexity of the detected customized hand gesture not meeting the criterion, detecting another input customized hand gesture.

2. The method for form operation on the mobile terminal according to claim 1, wherein adding the hand gesture to the correspondence is further performed by:

prompting whether to add the hand gesture to the correspondence;

in response to receiving the input to add the hand gesture:

displaying a hand-gesture setting page,

detecting the input customized hand gesture on the screen, and

setting a corresponding hand-gesture comparison rule and a corresponding

form operation; and

storing the detected customized hand gesture, the corresponding hand-gesture comparison rule, and the corresponding form operation in the correspondence.

3. The method for form operation on the mobile terminal according to claim 2, wherein the criterion for the complexity of the customized hand gesture includes:

whether a number of inflections of a hand-gesture trajectory is within a preset inflection threshold.

4. The method for form operation on the mobile terminal according to claim 2, wherein after storing the detected customized hand gesture, the corresponding hand-gesture comparison rule, and the corresponding form operation in the correspondence, the method further comprises:

querying whether to replace an input password by the stored customized hand gesture; and

in response to receiving an input to replace the input password:

displaying a password-setting page, and

storing a set password in the correspondence,

wherein triggering the corresponding form operation if the matching is successful includes retrieving the stored password from the correspondence, and triggering a password verification operation.

5. The method for form operation on the mobile terminal according to claim 2, wherein before storing the detected customized hand gesture, the corresponding hand-gesture comparison rule, and the corresponding form operation in the correspondence, the method further comprises:

prompting the user to input one or more other customized hand gestures;

detecting whether the input customized hand gesture corresponds with at least some of the one or more other input customized hand gestures; and

in response to one or more correspondences, storing the input customized hand gesture and the corresponding input customized hand gestures into the correspondence.

6. The method for form operation on the mobile terminal according to claim 1, wherein matching the acquired trajectory of the input hand gesture with the hand gestures in the correspondence in accordance with the hand-gesture comparison rules includes:

extracting a feature value of the input hand gesture,

comparing the feature value with a feature value of a first hand-gesture comparison rule in the correspondence; and

calculating a number of inflections of the input hand gesture, and comparing the calculated number of inflections with an inflection threshold of the first hand-gesture comparison rule in the correspondence.

7. The method for form operation on the mobile terminal according to claim 1, wherein the correspondence includes at least one set of a hand gesture, a hand-gesture comparison rule, and a corresponding form operation, each set constituting a hand-gesture

trigger template.

8. A method for submitting a form on a mobile terminal, the method comprising:

adding a preset hand gesture to a correspondence by detecting an input customized hand gesture on a screen and storing the detected customized hand gesture in the correspondence;

detecting an input hand gesture on a screen, and acquiring a trajectory of the input hand gesture;

determining, in accordance with hand-gesture comparison rules, whether the acquired trajectory of the input hand gesture matches a preset hand gesture of a hand-gesture trigger template included in the correspondence and having a higher priority in accordance with priorities of hand-gesture trigger templates, wherein the priorities of hand-gesture trigger templates are sorted in accordance with historically cumulative operational numbers of hand gestures in the templates;

in response to a match, submitting the form,

wherein detecting the input customized hand gesture on the screen further includes:

determining whether complexity of the detected customized hand gesture meets a criterion; and

in response to the complexity of the detected customized hand gesture not meeting the criterion, detecting another input customized hand gesture.

9. The method for submitting the form on the mobile terminal according to claim 8, wherein adding the preset hand gesture to the correspondence is further

performed by:

prompting a user whether to add the preset hand gesture;

in response to an indication that the preset hand gesture is to be added:

displaying a hand-gesture setting page, and

detecting the input customized hand gesture on the screen; and

storing the detected customized hand gesture to be the preset hand gesture.

10. The method for submitting the form on the mobile terminal according to claim 9, wherein after storing the detected customized hand gesture to be the preset hand gesture, the method further comprises:

querying whether to replace an input password by the stored customized hand gesture; and

in response to the query to replace the input password:

displaying a password-setting page, and

storing a set password,

wherein submitting the form if the matching is successful further includes retrieving the stored password, and triggering a password verification operation.

11. A mobile terminal apparatus for form operation, the apparatus comprising:
a memory storing a set of instructions; and
one or more processors configured to execute the set of instructions to cause the mobile terminal apparatus to perform:

adding a hand gesture to a correspondence by detecting an input customized hand gesture on a screen and storing the detected customized hand gesture in the correspondence;

detecting an input hand gesture on a screen, and acquiring a trajectory of the input hand gesture;

matching, in accordance with hand-gesture comparison rules, the acquired trajectory of the input hand gesture with one or more hand gestures of a hand-gesture trigger template included in the correspondence and having a higher priority in accordance with priorities of hand-gesture trigger templates, wherein the priorities of hand-gesture trigger templates are sorted in accordance with historically cumulative operational numbers of hand gestures in the templates;

triggering a corresponding form operation in response to the acquired trajectory of the input hand gesture matching the one or more hand gestures,

wherein detecting the input customized hand gesture on the screen further includes:

determining whether complexity of the detected customized hand gesture meets a criterion; and

in response to the complexity of the detected customized hand gesture not meeting the criterion, detecting another input customized hand gesture.

12. The mobile terminal apparatus for form operation according to claim 11, wherein adding the hand gesture to the correspondence is further performed by:

prompting whether to add the hand gesture to the correspondence;

in response to receiving the input to add the hand gesture:

displaying a hand-gesture setting page,

detecting the input customized hand gesture on the screen, and

setting a corresponding customized hand-gesture comparison rule

and a corresponding customized form operation; and

storing the detected customized hand gesture, the corresponding hand-gesture comparison rule, and the corresponding form operation in the correspondence.

13. The mobile terminal apparatus for form operation according to claim 12, wherein the criterion for the complexity of the customized hand gesture includes whether a number of inflections of a hand-gesture trajectory is within a preset inflection threshold.

14. The mobile terminal apparatus for form operation according to claim 12, wherein the one or more processors are configured to execute the set of instructions to cause the mobile terminal apparatus to further perform:

querying whether to replace an input password by the stored customized hand gesture;

in response to receiving an input to replace the input password:

displaying a password-setting page, and

storing a set password in the correspondence,

wherein triggering a corresponding form operation includes:

retrieving the stored password from the correspondence, and triggering a password verification operation.

15. The mobile terminal apparatus for form operation according to claim 12, wherein the one or more processors are configured to execute the set of instructions to cause the mobile terminal apparatus to further perform:

prompting the user to input one or more other customized hand gestures;

detecting whether the input customized hand gesture corresponds with at least

some of the one or more other input customized hand gestures; and

in response to one or more correspondences, storing the input customized hand gesture and the corresponding input customized hand gestures into the correspondence.

16. The mobile terminal apparatus for form operation according to claim 11, wherein the one or more processors are configured to execute the set of instructions to cause the mobile terminal apparatus to further perform:

extracting a feature value of the input hand gesture, and comparing the feature value with a feature value of a first hand-gesture comparison rule in the correspondence; and

calculating a number of inflections of the input hand gesture, and comparing the calculated number of inflections with an inflection threshold of the first hand-gesture comparison rule in the correspondence.

17. The mobile terminal apparatus for form operation according to claim 11, wherein

the correspondence includes at least one set of a hand gesture, a hand-gesture comparison rule, and a corresponding form operation, each set constituting a hand-gesture trigger template.

18. A mobile terminal apparatus for submitting a form, the mobile terminal apparatus comprising:

a memory storing a set of instructions; and

one or more processors configured to execute the set of instructions to cause the mobile terminal apparatus to perform:

adding a preset hand gesture to a correspondence by detecting an input customized hand gesture on a screen and storing the detected customized hand gesture in the correspondence;

detecting an input hand gesture on a screen, and acquiring a trajectory of the input hand gesture;

determining, in accordance with hand-gesture comparison rules, whether the acquired trajectory of the input hand gesture matches a preset hand gesture of a hand-gesture trigger template included in the correspondence and having a higher priority in accordance with priorities of hand-gesture trigger templates, wherein the priorities of hand-gesture trigger templates are sorted in accordance with historically cumulative operational numbers of hand gestures in the templates;

in response to a match, submitting the form, wherein detecting the input customized hand gesture on the screen further includes:

determining whether complexity of the detected customized hand gesture meets a criterion; and

in response to the complexity of the detected customized hand gesture not meeting the criterion, detecting another input customized hand gesture.

19. The mobile terminal apparatus for submitting the form according to claim 18, wherein adding the preset hand gesture to the correspondence is further performed by:

prompting whether to add the preset hand gesture;

in response to an indication that the preset hand gesture is to be added,

displaying a hand-gesture setting page;

detecting the input customized hand gesture on the screen; and

storing the detected customized hand gesture to be the preset hand

gesture.

20. The mobile terminal apparatus for submitting the form according to claim 19, wherein the one or more processors are configured to execute the set of instructions to cause the mobile terminal apparatus to further perform:

querying whether to replace an input password by the stored customized hand gesture;

in response to the query to replace an input password, displaying a password-setting page, and storing a set password, and wherein submitting the form includes:

retrieving the stored password, and triggering a password verification operation.

21. A non-transitory computer readable medium that stores a set of instructions that is executable by at least one processor of an apparatus to cause the apparatus to perform a method for form operation on a mobile terminal, the method comprising:

adding a hand gesture to a correspondence by detecting an input customized hand gesture on a screen and storing the detected customized hand gesture in the correspondence;

detecting an input hand gesture on a screen, and acquiring a trajectory of the input hand gesture;

matching, in accordance with hand-gesture comparison rules, the acquired trajectory of the input hand gesture with one or more hand gestures of a hand-gesture trigger template included in the correspondence and having a higher priority in accordance with priorities of hand-gesture trigger templates, wherein the priorities of hand-gesture

trigger templates are sorted in accordance with historically cumulative operational numbers of hand gestures in the templates;

triggering a corresponding form operation in response to a match,

wherein detecting the input customized hand gesture on the screen further includes:

determining whether complexity of the detected customized hand gesture meets a criterion; and

in response to the complexity of the detected customized hand gesture not meeting the criterion, detecting another input customized hand gesture.

22. The non-transitory computer-readable medium of claim 21, wherein adding the hand gesture to the correspondence is further performed by:

prompting whether to add the hand gesture to the correspondence;

in response to receiving the input to add the hand gesture:

displaying a hand-gesture setting page,

detecting the input customized hand gesture on the screen, and

setting a corresponding hand-gesture comparison rule and a corresponding form operation; and

storing the detected customized hand gesture, the corresponding hand-gesture comparison rule, and the corresponding form operation in the correspondence.

23. The non-transitory computer-readable medium of claim 22, wherein after storing the detected customized hand gesture, the corresponding hand-gesture comparison rule, and the corresponding form operation in the correspondence, the method further comprises:

querying whether to replace an input password by the stored customized hand gesture; and

in response to the query:

displaying a password-setting page, and

storing a set password in the correspondence,

wherein triggering the corresponding form operation if the matching is successful includes retrieving the stored password from the correspondence, and triggering a password verification operation.

24. A non-transitory computer readable medium that stores a set of instructions that is executable by at least one processor of an apparatus to cause the apparatus to perform a method for form operation on a mobile terminal, the method comprising:

adding a preset hand gesture to a correspondence by detecting an input customized hand gesture on a screen and storing the detected customized hand gesture in the correspondence;

detecting an input hand gesture on a screen, and acquiring a trajectory of the input hand gesture;

determining, in accordance with hand-gesture comparison rules, whether the acquired trajectory of the input hand gesture matches a preset hand gesture of a hand-gesture trigger template included in the correspondence and having a higher priority in accordance with priorities of hand-gesture trigger templates, wherein the priorities of hand-gesture trigger templates are sorted in accordance with historically cumulative operational numbers of hand gestures in the templates;

in response to a match, submitting the form,

wherein detecting the input customized hand gesture on the screen further

includes:

determining whether complexity of the detected customized hand gesture meets a criterion; and

in response to the complexity of the detected customized hand gesture not meeting the criterion, detecting another input customized hand gesture.