

CLAIMS

1. An Android-based pop-up prompt method, wherein the method comprises:
 - in response to detecting a trigger event prompted by a pop-up, launching an activity pop-up component to output the pop-up, wherein a launch mode of the activity pop-up component is preconfigured as a single task mode (101);
 - determining whether the activity pop-up component is obscured by another activity component (102); and
 - in response to determining that the activity pop-up component is obscured by another activity component, relaunching the activity pop-up component to trigger movement of the activity pop-up component to the top of an activity stack, wherein the pop-up is displayed on a system front end (103).
2. The method according to claim 1, wherein determining whether the activity pop-up component is obscured by another activity component comprises:
 - determining whether an onPause or onStop method of the activity pop-up component is called; and
 - in response to determining that the onPause or onStop method of the activity pop-up component is called, determining that the activity pop-up component is obscured by another activity component.
3. The method according to claim 2, wherein:
 - an onPause method of an activity pop-up component switches the activity pop-up component to a pause state where the activity pop-up component is obscured by another non-full-sized or semitransparent activity component and is no longer at the top of the activity stack, but is still visible and can interact with the user, and
 - an onStop method of an activity pop-up component switches the activity pop-up component to a stop state where the activity component is completely obscured by another activity component and is no longer on the top of the activity stack, and the interaction interface of the activity component is completely hidden.
4. The method according to claim 2 or 3, wherein relaunching the activity pop-up component

when the activity pop-up component is obscured by another activity component comprises:

in response to determining that the onPause method of the activity pop-up component is called, relaunching the activity pop-up component based on the onPause method; and

in response to determining that the onStop method of the activity pop-up component is called:

determining whether the onPause method of the activity pop-up component is already called, and

in response to determining that the onPause method is not called, relaunching the activity pop-up component based on the onStop method.

5. The method according to claim 4, wherein calling the onPause method of the activity pop-up component comprises:

calling relaunching logic loaded in the onPause method; and

adding a mark to the to a class file of the activity pop-up component, wherein the mark indicates that: the activity pop-up component is already processed based on the relaunching logic loaded in the onPause method and the activity pop-up component does not need to be repeatedly processed.

6. The method according to claim 5, wherein determining whether the onPause method of the activity pop-up component is already called comprises checking whether there is a corresponding mark in the class file of the activity pop-up component.

7. The method according to any one of claims 4-6, wherein relaunching the activity pop-up component based on the onPause method or the onStop method comprises:

determining whether the call of the onPause method or the onStop method is triggered by a disabling event for the activity pop-up component; and

in response to determining that the call of the onPause method or the onStop method is not triggered by the disabling event for the activity pop-up component, relaunching the activity pop-up component based on the onPause method or the onStop method.

8. The method according to claim 7, wherein the method further comprises:

in response to determining that the call of the onPause method or the onStop method is triggered by the disabling event for the activity pop-up component, normally disabling the activity pop-up component.

9. The method according to claim 8, further comprising adding a mark to a class file of the activity pop-up component, wherein the mark indicates that the call of the onPause method or the onStop method is triggered by the disabling event for the activity pop-up component.

10. The method according to claim 9, further comprising, in response to determining that the onPause method or the onStop method is called:

checking whether there is a mark in the class file of the activity pop-up component that indicates that the call of the onPause method and the onStop method is triggered by the user for the disabling event of the activity pop-up component; and

if there is a mark in the class file, responding to the normal disabling procedure for the activity pop-up component.

11. The method according to any one of claims 1 to 10, wherein the trigger event prompted by the pop-up comprises a single device login event.

12. The method according to any one of claims 1 to 10, wherein the trigger event prompted by the pop-up comprises an incoming call event.

13. An Android-based pop-up prompt device (20), wherein the device comprises multiple modules configured to perform operations according to the method of any one of claims 1 to 12.