

CLAIMS

1. A method for launching an activity pop-up component in an Android-based system, wherein the method comprises:

in response to detecting a trigger event prompted by a pop-up, launching (101) an activity pop-up component to output the pop-up, wherein the launch mode of the activity pop-up component is preconfigured as a single task mode;

determining (102) whether the activity pop-up component is obscured by another activity component, the determining comprising i) determining whether an onStop method of the activity pop-up component is called and ii) in response to determining that the onStop method of the activity pop-up component is called, determining that the activity pop-up component is obscured by another activity component; and

in response to determining that the activity pop-up component is obscured by another activity component, determining whether an onPause method of the activity pop-up component is called; and

either

a) in response to determining that the onPause method of the activity pop-up component is called, relaunching (103) the activity pop-up component based on the onPause method 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, or

b) in response to determining that the onPause method of the activity pop-up component is not called, relaunching (103) the activity pop-up component based on the onStop method to trigger movement of the activity pop-up component to the top of an activity stack, so wherein the pop-up is displayed on a system front end.

2. The method according to claim 1, 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 a 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.

3. The method according to claim 1, wherein relaunching the activity pop-up component based on the onPause method comprises calling the onPause method of the activity pop-up component, the calling comprising:

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.

4. The method according to claim 3, wherein determining whether the onPause method of the activity pop-up component is called comprises determining whether there is a corresponding mark in the class file of the activity pop-up component.

5. The method according to claim 3 or 4, 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.

6. The method according to claim 5, 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.

7. The method according to claim 6, 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.

8. The method according to claim 7, further comprising, in response to determining that the onPause method or the onStop method is called:

determining 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 a user for the disabling event of the activity pop-up component; and

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

9. The method according to any one of claims 1 to 8, wherein the trigger event prompted by the pop-up comprises a single device login event.

10. The method according to any one of claims 1 to 8, wherein the trigger event prompted by the pop-up comprises an incoming call event.

11. 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 10.