

SUMMARY

[0006] The disclosure provides a method, device and equipment for launching an application, and the specific technical solutions adopted in the embodiments of the disclosure are as follows:

[0007] In one aspect, the disclosure provides a method for launching an application, applied to a hand-held mobile terminal, comprising:

[0008] presetting one or more respective initial positions for one or more applications, wherein the one or more respective initial positions of the one or more applications are located on a virtual plane outside a screen display of the mobile terminal;

[0009] acquiring a first moving direction and a first moving distance of the mobile terminal which moves based on an original position, wherein the original position is a position where the mobile terminal is located before moving;

[0010] determining a current position of the mobile terminal based on the first moving direction and the first moving distance;

~~[0009]~~[0011] determining a target application ~~from~~among the applications ~~according to a~~based on the current position of the mobile terminal and the one or more respective initial positions of the one or more applications;

~~[0010]~~[0012] ~~shortening a distance between the mobile terminal and the target application when a moving operation of a user on the mobile terminal is detected, according to the moving operation, and~~ determining a ~~first~~ distance between the mobile terminal and an initial position of the target application among the one or more respective initial positions of the one or more applications in response to detecting a moving operation of a user on the mobile terminal; and

~~[0011]~~[0013] launching the target application when the ~~first~~ distance between the mobile terminal and the initial position of the target application is less than a preset threshold.

~~[0012]~~[0014] In one embodiment, the presetting one or more respective initial positions for one or more applications comprises:

~~[0013]~~[0015] distributing the one or more applications on a same plane according to a first preset rule; or,

~~[0014]~~[0016] distributing the one or more applications on different planes according to a second preset rule, wherein the planes on which the different

applications are distributed are parallel to one another; or,

~~{0015}~~{0017} distributing the one or more applications in a preset stereoscopic space according to a third preset rule.

~~{0016}—In one embodiment, the current position of the mobile terminal is determined according to the following steps:~~

~~{0017}—acquiring a first moving direction and a first moving distance of the mobile terminal which moves based on an original position, wherein the original position is a position where the mobile terminal is located before moving; and~~

~~{0018}—determining the current position of the mobile terminal according to the first moving direction and the first moving distance.~~

~~{0019}~~{0018} In one embodiment, ~~the shortening the distance between the mobile terminal and the target application when a moving operation of a user on the mobile terminal is detected, according to the moving operation, and~~ determining the first distance between the mobile terminal and an initial position of the target application among the one or more respective initial positions of the one or more applications in response to detecting a moving operation of a user on the mobile terminal further comprises:

~~{0020}~~ ~~detecting the moving operation of the user on the mobile terminal;~~

~~{0021}~~{0019} acquiring, according to the moving operation, a second moving direction and a second moving distance of the mobile terminal which moves based on the current position of the mobile terminal; and

~~{0022}~~{0020} determining the ~~first~~ distance between the mobile terminal and the initial position of the target application ~~according to~~based on the current position of the mobile terminal, the initial position of the target application, the second moving direction and the second moving distance of the mobile terminal.

~~{0023}~~{0021} In one embodiment, the first moving direction and the second moving direction are acquired via at least one of an acceleration sensor, a gyroscope sensor and a camera sensor arranged on the mobile terminal.

~~{0024}~~{0022} In one embodiment, the first moving direction and the second moving direction are at least one of upward, downward, leftward, rightward, forward and backward.

~~{0025}~~{0023} In one embodiment, the first moving distance and the second moving distance of the mobile terminal are determined ~~according to the following steps~~based on:

~~{0026}~~{0024} acquiring a moving speed of the mobile terminal via the acceleration sensor and a timer arranged on the mobile terminal and integrating the moving speed to acquire the first moving distance and the second moving distance; or,

~~{0027}~~{0025} acquiring an ambient image via a camera arranged on the mobile terminal; acquiring a distance between each two adjacent frames in the ambient image; and adding the distances between the adjacent frames together to acquire the first moving distance and the second moving distance.

~~{0028}~~{0026} Yet another aspect of the disclosure provides a device for launching an application, applied to a mobile terminal, comprising:

~~{0029}~~[0027] an initial position setting module configured to preset one or more respective initial positions for one or more applications, wherein the one or more respective initial positions of the one or more applications are located outside the mobile terminal;

~~{0030}~~[0028] a current position determination module configured to determine a target application from the one or more applications according to a current position of the mobile terminal;

Claims

1. A method for launching an application, applied to a hand-held mobile terminal, comprising:

presetting one or more respective initial positions for one or more applications, wherein the one or more respective initial positions of the one or more applications are located on a virtual plane outside a screen display of the mobile terminal;

acquiring a first moving direction and a first moving distance of the mobile terminal which moves based on an original position, wherein the original position is a position where the mobile terminal is located before moving;

determining a current position of the mobile terminal based on the first moving direction and the first moving distance;

determining a target application ~~from~~among the one or more applications ~~according to a~~based on the current position of the mobile terminal and the one or more respective initial positions of the one or more applications;

~~shortening a distance between the mobile terminal and the target application when a moving operation of a user on the mobile terminal is detected, according to the moving operation, and~~ determining a ~~first~~ distance between the mobile terminal and an initial position of the target application among the one or more respective initial positions of the one or more applications in response to detecting a moving operation of a user on the mobile terminal; and

launching the target application when the ~~first~~ distance between the mobile terminal and the initial position of the target application is less than a preset threshold.

2. The method of claim 1, wherein the presetting one or more respective initial positions for one or more applications comprises:

distributing the one or more applications on a same plane according to a first preset rule; or,

distributing the one or more applications on different planes according to a second

preset rule, wherein the planes on which different applications are distributed are parallel to one another; or,

distributing the one or more applications in a preset stereoscopic space according to a third preset rule.

~~3. The method of claim 1, wherein the current position of the mobile terminal is determined according to the following steps:~~

~~acquiring a first moving direction and a first moving distance of the mobile terminal which moves based on an original position, wherein the original position is a position where the mobile terminal is located before moving; and~~

~~determining the current position of the mobile terminal according to the first moving direction and the first moving distance.~~

~~43. The method of claim 1, wherein the shortening a distance between the mobile terminal and the target application when a moving operation of a user on the mobile terminal is detected, according to the moving operation, and determining a first distance between the mobile terminal and an initial position of the target application among the one or more respective initial positions of the one or more applications in response to detecting a moving operation of a user on the mobile terminal further comprises:~~

~~detecting the moving operation of the user on the mobile terminal;~~

acquiring, according to the moving operation, a second moving direction and a second moving distance of the mobile terminal which moves based on the current position of the mobile terminal; and

determining the ~~first~~ distance between the mobile terminal and the initial position of the target application ~~according to~~based on the current position of the mobile terminal, the initial position of the target application, the second moving direction and the second moving distance of the mobile terminal.

~~54. The method of any one of claims 3 to 4claim 3, wherein the first moving direction and the second moving direction are acquired via at least one of an acceleration sensor, a gyroscope sensor and a camera sensor arranged on the mobile~~

terminal.

~~65~~. The method of ~~any one of claims 3 to 4~~claim 3, wherein the first moving direction and the second moving direction are at least one of upward, downward, leftward, rightward, forward and backward.

~~76~~. The method of ~~any one of claims 3 to 4~~claim 3, wherein the first moving distance and the second moving distance of the mobile terminal are determined ~~according to the following steps~~based on:

acquiring a moving speed of the mobile terminal via an acceleration sensor and a timer arranged on the mobile terminal and integrating the moving speed to acquire the first moving distance and the second moving distance; or

acquiring an ambient image via a camera sensor arranged on the mobile terminal; acquiring a distance between each two adjacent frames in the ambient image; and adding the distances between the adjacent frames together to acquire the first moving distance and the second moving distance.

~~87~~. A device for launching an application, applied to a mobile terminal, comprising:

an initial position setting module configured to preset one or more respective initial positions for one or more applications, wherein the one or more respective initial positions of the one or more applications are located outside the mobile terminal;

a current position determination module configured to determine a target application from the one or more applications according to a current position of the mobile terminal;

a first distance determination module configured to shorten a distance between the mobile terminal and the target application when a moving operation of a user on the mobile terminal is detected, according to the moving operation, and determine a first distance between the mobile terminal and the target application; and

an application launching module configured to launch the target application when the first distance is less than a preset threshold.

~~98~~. The device of claim ~~87~~, wherein the initial position setting module is

configured to:

distribute the one or more applications on a same plane according to a first preset rule; or,

distribute the one or more applications on different planes according to a second preset rule, wherein the planes on which different applications are distributed are parallel to one another; or

distribute the one or more applications in a preset stereoscopic space according to a third preset rule.

~~109~~. The device of claim ~~87~~, wherein the current position determination module comprises:

a first acquisition sub-module configured to acquire a first moving direction and a first moving distance of the mobile terminal which moves based on an original position, wherein the original position is a position where the mobile terminal is located before moving; and

a current position determination sub-module configured to determine the current position of the mobile terminal according to the first moving direction and the first moving distance.

~~110~~. The device of claim ~~87~~, wherein the first distance determination module comprises:

a detection sub-module configured to detect the moving operation of the user on the mobile terminal;

a second acquisition sub-module configured to acquire, according to the moving operation, a second moving direction and a second moving distance of the mobile terminal which moves based on the current position; and

a first distance determination sub-module configured to determine the first distance between the mobile terminal and the target application according to the current position of the mobile terminal, the initial position of the target application, the second moving direction and the second moving distance.

~~121~~. The device of any one of claims ~~109~~ to ~~110~~, wherein the first moving

direction and the second moving direction are acquired via at least one of an acceleration sensor, a gyroscope sensor and a camera sensor arranged on the mobile terminal.

~~43~~12. The device of any one of claims ~~409~~ to ~~410~~, wherein the first moving direction and the second moving direction are at least one of upward, downward, leftward, rightward, forward and backward.

~~44~~13. The device of any one of claims ~~409~~ to ~~410~~, further comprising:
a moving distance acquisition module configured to acquire a moving speed of the mobile terminal via an acceleration sensor and a timer arranged on the mobile terminal, and integrate the moving speed to acquire the first moving distance and the second moving distance, or

acquire an ambient image via a camera sensor arranged on the mobile terminal, acquire a distance between each two adjacent frames in the ambient image, and add the distances between the adjacent frames together to acquire the first moving distance and the second moving distance.

~~45~~14. Application launching equipment, comprising a memory and a processor, wherein

the memory is configured to store program codes, and transmitting the program codes to the processor; and

the processor is configured to perform the method of any one of claims 1 to ~~76~~ according to a command in the program codes.