CLAIMS

What is claimed is:

1. An application program APP management method, wherein the method is applicable to a terminal device and comprises:

obtaining, according to type information of an APP downloaded by the terminal device and attribute information of a desktop folder on the terminal device, a target desktop folder in which the downloaded APP is to be clustered; and

clustering the downloaded APP into the target desktop folder.

2. The method according to claim 1, wherein the attribute information of the desktop folder comprises a name of the desktop folder or type information of an APP in the desktop folder.

3. The method according to claim 2, wherein the obtaining, according to type information of an APP downloaded by a terminal device and attribute information of a desktop folder on the terminal device, a target desktop folder in which the downloaded APP is to be clustered comprises:

determining a similarity between the type information of the downloaded APP and a name of a first desktop folder according to a similarity algorithm, wherein the first desktop folder is any desktop folder on the terminal device; and

determining the first desktop folder as the target desktop folder when the similarity is greater than or equal to a first threshold or the similarity is the highest.

4. The method according to claim 2, wherein the obtaining, according to type information of an APP downloaded by a terminal device and attribute information of a desktop folder on the terminal device, a target desktop folder in which the downloaded APP is to be clustered comprises:

determining a similarity between the type information of the downloaded APP and type information of a first APP according to a similarity algorithm, wherein the first APP is an APP in a second desktop folder on the terminal device; and

determining the second desktop folder as the target desktop folder when the similarity is greater than or equal to a second threshold or the similarity is the highest.

5. The method according to any one of claims 1 to 4, wherein when the target desktop folder in which the downloaded APP is to be clustered is not determined, the method further comprises:

obtaining type information of a second APP on the terminal device according to a preset rule;

determining a similarity between the type information of the downloaded APP and the type

information of the second APP according to the similarity algorithm, wherein the second APP is an APP on the terminal device, and the second APP is not clustered into a desktop folder on the terminal device;

generating a third desktop folder when the similarity is greater than or equal to the second threshold or the similarity is the highest;

naming the third desktop folder according to the type information of the currently downloaded APP and/or the type information of the second APP; and

clustering the currently downloaded APP and the second APP into the third desktop folder.

6. The method according to any one of claims 1 to 5, wherein when the downloaded APP is a multi-purpose APP, the method further comprises:

determining the type information of the downloaded APP according to historical download data and/or search data of a user.

~~7. The method according to claim 5 or 6, wherein the obtaining type information of a second APP on the terminal device according to a preset rule comprises:~~

~~obtaining the type information of the second APP from download information of the second APP;~~

~~sending a query message to a server when the type information of the second APP does not exist in the download information of the second APP, wherein the query message indicates the server to search for the type information of the second APP;~~

~~receiving a feedback message sent by the server, wherein the feedback message comprises the type information of the second APP; and~~

~~obtaining the type information of the second APP according to the feedback message.~~

~~8~~7. The method according to claim 5 or 6, wherein the obtaining type information of a second APP on the terminal device according to a preset rule comprises:

predicting the type information of the second APP according to a machine learning model when the received feedback message sent by the server indicates that the type information of the second APP is not found.

~~9. The method according to any one of claims 1 to 8, wherein the method further comprises:~~

~~generating a fourth desktop folder when the target desktop folder in which the downloaded APP is to be clustered is not obtained;~~

~~naming the fourth desktop folder according to a type of the downloaded APP; and~~

~~adding the downloaded APP to the fourth desktop folder.~~

~~10. The method according to any one of claims 1 to 9, wherein the method further comprises: reminding the user of the target desktop folder in which the downloaded APP is located.~~

~~11. The method according to any one of claims 1 to 9, wherein the method further comprises: sending an update message to the server, wherein the update message indicates the server to update a desktop folder of the terminal device and/or an APP comprised in the desktop folder that are/is stored at the server end.~~

~~12~~8. An application program APP management method, wherein the method is applicable to a server and comprises:

receiving a request message sent by a first terminal device, wherein the request message is used to request the server to obtain a target desktop folder in which an APP downloaded by the first terminal device is to be clustered;

obtaining, according to type information of the APP downloaded by the first terminal device and attribute information of a desktop folder on the first terminal device, the target desktop folder in which the downloaded APP is to be clustered; and

sending a feedback message to the first terminal device, wherein the feedback message comprises a name of the target desktop folder.

~~13~~9. The method according to claim ~~12~~8, wherein the attribute information of the desktop folder comprises a name of the desktop folder or type information of an APP in the desktop folder.

~~14~~10. The method according to claim ~~13~~9, wherein the obtaining, according to type information of the APP downloaded by the first terminal device and attribute information of a desktop folder on the first terminal device, the target desktop folder in which the downloaded APP is to be clustered comprises:

determining a similarity between the type information of the downloaded APP and a name of a first desktop folder according to a similarity algorithm, wherein the first desktop folder is any desktop folder on the first terminal device; and

determining the first desktop folder as the target desktop folder when the similarity is greater than or equal to a first threshold or the similarity is the highest.

~~15~~11. The method according to claim ~~13~~9, wherein the obtaining, according to type information of the APP downloaded by the first terminal device and attribute information of a desktop folder on the first terminal device, the target desktop folder in which the downloaded APP

is to be clustered comprises:

determining a similarity between the type information of the downloaded APP and type information of a first APP according to a similarity algorithm, wherein the first APP is an APP in a second desktop folder on the first terminal device; and

determining the second desktop folder as the target desktop folder when the similarity is greater than or equal to a second threshold or the similarity is the highest.

~~16. The method according to any one of claims 12 to 15, wherein when the target desktop folder in which the downloaded APP is to be clustered is not determined, the method further comprises:~~

~~obtaining type information of a second APP on the first terminal device according to a preset rule;~~

~~determining a similarity between the type information of the downloaded APP and the type information of the second APP according to the similarity algorithm, wherein the second APP is an APP on the first terminal device, and the second APP is not clustered into a desktop folder on the first terminal device;~~

~~generating a third desktop folder when the similarity is greater than or equal to the second threshold or the similarity is the highest;~~

~~naming the third desktop folder according to the type information of the currently downloaded APP and/or the type information of the second APP; and~~

~~clustering the currently downloaded APP and the second APP into the third desktop folder.~~

~~17. The method according to any one of claims 12 to 16, wherein when the downloaded APP is a multi-purpose APP, the method further comprises:~~

~~determining the type information of the downloaded APP according to historical download data and/or search data of a user.~~

~~18. The method according to claim 16 or 17, wherein the obtaining type information of a second APP on the terminal device according to a preset rule comprises:~~

~~obtaining the type information of the second APP from download information of the second APP; and~~

~~predicting the type information of the second APP according to a machine learning model when the type information of the second APP does not exist in the download information of the second APP.~~

19. The method according to any one of claims 12 to 18, wherein the method further comprises:

generating a fourth desktop folder when the target desktop folder in which the downloaded APP is to be clustered is not obtained;

naming the fourth desktop folder according to a type of the downloaded APP; and

sending the feedback message to the first terminal device, wherein the feedback message comprises a name of the fourth desktop folder.

20. The method according to any one of claims 12 to 19, wherein the method further comprises:

sending a reminder message to the first terminal device, wherein the reminder message is used to remind a user of the target desktop folder in which the downloaded APP is located.

21. The method according to any one of claims 12 to 20, wherein before the obtaining, according to type information of the APP downloaded by the first terminal device and attribute information of a desktop folder on the first terminal device, the target desktop folder in which the downloaded APP is to be clustered, the method further comprises:

obtaining the type information of the APP downloaded by the first terminal device and the attribute information of the desktop folder on the first terminal device.

22. The method according to any one of claims 12 to 21, wherein the method further comprises:

managing a stored desktop folder of the first terminal device and/or an APP comprised in the desktop folder; and

sending an update message to the first terminal device, wherein the update message indicates the first terminal device to update a desktop folder of the first terminal device and/or an APP comprised in the desktop folder.

23. The method according to any one of claims 12 to 22, wherein the method further comprises:

receiving a request message sent by a second terminal device, wherein the request message is used to request to replicate desktop data of the first terminal device, and the desktop data comprises a desktop folder of the first terminal device, an APP comprised in the desktop folder of the first terminal device, and an APP not comprised in the desktop folder of the first terminal device; and

sending desktop data information of the first terminal device to the second terminal device.

24. The method according to any one of claims 12 to 23, wherein the method further comprises:

sending an update message to the third terminal device when the desktop data of the first terminal device changes, wherein the update message is used to update changed desktop data of the first terminal device to the third terminal device, and the first terminal device and the third terminal device are already registered with the server.

25. A method for replicating data between different terminal devices, wherein the method is applicable to a server, and the method comprises:

receiving a request message sent by a second terminal device, wherein the request message is used to request to replicate desktop data of a first terminal device, the server stores the desktop data of the first terminal device, and the desktop data comprises a desktop folder of the first terminal device, an APP comprised in the desktop folder of the first terminal device, and an APP not comprised in the desktop folder of the first terminal device; and

sending the desktop data of the first terminal device to the second terminal device.

26. The method according to claim 25, wherein the method further comprises:

managing a desktop folder of the first terminal device and/or an APP comprised in the desktop folder; and

sending a first update message to the first terminal device, wherein the update message indicates the first terminal device to update the desktop folder of the first terminal device and/or the APP comprised in the desktop folder.

27. The method according to claim 25 or 26, wherein the method further comprises:

receiving a second update message sent by the first terminal device, wherein the second update message indicates the server to update the desktop folder of the first terminal device and/or the APP comprised in the desktop folder that are/is stored at the server end; and

updating, according to the second update message, the desktop folder of the first terminal device and/or the APP comprised in the desktop folder.

28. The method according to any one of claims 25 to 27, wherein the method further comprises:

sending an update message to a third terminal device when the desktop data of the first terminal device changes, wherein the update message is used to update changed desktop data of

the first terminal device to the third terminal device, and the first terminal device and the third terminal device are already registered with the server.

29. A terminal device, comprising:

an obtaining unit, configured to obtain, according to type information of an APP downloaded by the terminal device and attribute information of a desktop folder on the terminal device, a target desktop folder in which the downloaded APP is to be clustered; and

a processing unit, configured to cluster the downloaded APP into the target desktop folder.

30. The terminal device according to claim 29, wherein the attribute information of the desktop folder comprises a name of the desktop folder or type information of an APP in the desktop folder.

31. The terminal device according to claim 30, wherein the obtaining unit is specifically configured to:

determine a similarity between the type information of the downloaded APP and a name of a first desktop folder according to a similarity algorithm, wherein the first desktop folder is any desktop folder on the terminal device; and

determine the first desktop folder as the target desktop folder when the similarity is greater than or equal to a first threshold or the similarity is the highest.

32. The terminal device according to claim 30, wherein the obtaining unit is specifically configured to:

determine a similarity between the type information of the downloaded APP and type information of a first APP according to a similarity algorithm, wherein the first APP is an APP in a second desktop folder on the terminal device, and a desktop folder in which the first APP is located is the second desktop folder; and

determine the second desktop folder as the target desktop folder when the similarity is greater than or equal to a second threshold or the similarity is the highest.

33. The terminal device according to any one of claims 29 to 32, wherein the obtaining unit is further configured to:

obtain type information of a second APP on the terminal device according to a preset rule;

determine a similarity between the type information of the downloaded APP and the type information of the second APP of a plurality of APPs on the terminal device according to the similarity algorithm, wherein the second APP is an APP on the terminal device, and the second

APP is not clustered into a desktop folder on the terminal device;

generate a third desktop folder when the similarity is greater than or equal to the second threshold or the similarity is the highest;

name the third desktop folder according to the type information of the currently downloaded APP and/or the type information of the second APP; and

cluster the currently downloaded APP and the second APP into the third desktop folder.

34. The terminal device according to any one of claims 29 to 33, wherein the processing unit is further configured to:

determine the type information of the downloaded APP according to historical download data and/or search data of a user.

35. The terminal device according to claim 33 or 34, wherein the obtaining unit is specifically configured to obtain the type information of the second APP from download information of the second APP; and

the terminal device further comprises a transceiver unit, wherein the transceiver unit is configured to send a query message to a server, wherein the query message indicates the server to search for the type information of the second APP;

the transceiver unit is further configured to receive a feedback message sent by the server, wherein the feedback message comprises the type information of the second APP; and

the obtaining unit is further configured to obtain the type information of the second APP according to the feedback message.

36. The terminal device according to claim 33 or 34, wherein the obtaining unit is further configured to predict the type information of the second APP according to a machine learning model when the received feedback message sent by the server indicates that the type information of the second APP is not found.

37. The terminal device according to any one of claims 29 to 36, wherein the processing unit is further configured to:

generate a fourth desktop folder when the target desktop folder in which the downloaded APP is to be clustered is not obtained;

name the fourth desktop folder according to a type of the downloaded APP; and

add the downloaded APP to the fourth desktop folder.

38. The terminal device according to any one of claims 29 to 37, wherein the processing unit

is further configured to:

remind the user of the target desktop folder in which the downloaded APP is located.

39. The terminal device according to any one of claims 29 to 38, wherein the transceiver unit is further configured to:

send an update message to the server, wherein the update message indicates the server to update a desktop folder of the terminal device and/or an APP comprised in the desktop folder that are/is stored at the server end.

40. A server, comprising:

a transceiver unit, configured to receive a request message sent by a first terminal device, wherein the request message is used to request the server to obtain a target desktop folder in which an APP downloaded by the first terminal device is to be clustered; and

a processing unit, configured to obtain, according to type information of the APP downloaded by the first terminal device and attribute information of a desktop folder on the first terminal device, the target desktop folder in which the downloaded APP is to be clustered; and

the transceiver unit is further configured to send a feedback message to the first terminal device, wherein the feedback message comprises a name of the target desktop folder.

41. The server according to claim 40, wherein the attribute information of the desktop folder comprises a name of the desktop folder or type information of an APP in the desktop folder.

42. The server according to claim 41, wherein the processing unit is specifically configured to:

determine a similarity between the type information of the downloaded APP and a name of a first desktop folder according to a similarity algorithm, wherein the first desktop folder is any desktop folder on the first terminal device; and

determine the first desktop folder as the target desktop folder when the similarity is greater than or equal to a first threshold or the similarity is the highest.

43. The server according to claim 41, wherein the processing unit is specifically configured to:

determine a similarity between the type information of the downloaded APP and type information of a first APP according to a similarity algorithm, wherein the first APP is any APP in the desktop folder, and a desktop folder in which the first APP is located is a second desktop folder; and

~~determine the second desktop folder as the target desktop folder when the similarity is greater than or equal to a second threshold or the similarity is the highest.~~

~~44. The server according to any one of claims 40 to 43, wherein the processing unit is further configured to:~~

~~obtain type information of a second APP on the first terminal device;~~

~~determine a similarity between the type information of the downloaded APP and the type information of the second APP of a plurality of APPs on the first terminal device according to the similarity algorithm, wherein the second APP is an APP on the first terminal device, and the second APP is not clustered into a desktop folder on the first terminal device;~~

~~generate a third desktop folder when the similarity is greater than or equal to the second threshold or the similarity is the highest;~~

~~name the third desktop folder according to the type information of the currently downloaded APP and/or the type information of the second APP; and~~

~~cluster the currently downloaded APP and the second APP into the third desktop folder.~~

~~45. The server according to any one of claims 40 to 44, wherein when the downloaded APP is a multi-purpose APP, the processing unit is further configured to:~~

~~determine the type information of the downloaded APP according to historical download data and/or search data of a user.~~

~~46. The server according to claim 44 or 45, wherein the processing unit is specifically configured to:~~

~~obtain the type information of the second APP from download information of the second APP; and~~

~~predict the type information of the second APP according to a machine learning model when the type information of the second APP does not exist in the download information of the second APP.~~

~~47. The server according to any one of claims 40 to 46, wherein the processing unit is further configured to:~~

~~generate a fourth desktop folder when the target desktop folder in which the downloaded APP is to be clustered is not obtained;~~

~~name the fourth desktop folder according to a type of the downloaded APP; and~~

~~send the feedback message to the first terminal device, wherein the feedback message~~

comprises a name of the fourth desktop folder.

48. The server according to any one of claims 40 to 47, wherein the transceiver unit is further configured to:

send a reminder message to the first terminal device, wherein the reminder message is used to remind a user of the target desktop folder in which the downloaded APP is located.

49. The server according to any one of claims 40 to 48, wherein the transceiver unit is further configured to:

obtain the type information of the APP downloaded by the first terminal device and the attribute information of the desktop folder on the first terminal device.

50. The server according to any one of claims 40 to 49, wherein

the processing unit is specifically configured to manage a desktop folder of the first terminal device and/or an APP comprised in the desktop folder; and

the transceiver unit is further configured to send an update message to the first terminal device, wherein the update message indicates the first terminal device to update the desktop folder of the first terminal device and/or the APP comprised in the desktop folder.

51. The server according to any one of claims 40 to 50, wherein the transceiver unit is further configured to:

receive a request message sent by a second terminal device, wherein the request message is used to request to replicate desktop data of the first terminal device, and the desktop data comprises a desktop folder of the first terminal device, an APP comprised in the desktop folder of the first terminal device, and an APP not comprised in the desktop folder of the first terminal device; and

send the desktop data of the first terminal device to the second terminal device.

52. The server according to any one of claims 40 to 51, wherein the transceiver unit is further configured to:

send an update message to the third terminal device when the desktop data of the first terminal device changes, wherein the update message is used to update changed desktop data of the first terminal device to the third terminal device, and the first terminal device and the third terminal device are already registered with the server.

53. A server, wherein the server comprises:

a receiving unit, wherein the receiving unit is configured to receive a request message sent by a second terminal device, wherein the request message is used to request to replicate desktop

~~data of a first terminal device, the server stores the desktop data of the first terminal device, and the desktop data comprises a desktop folder of the first terminal device, an APP comprised in the desktop folder of the first terminal device, and an APP not comprised in the desktop folder of the first terminal device; and~~

~~a sending unit, wherein the sending unit is configured to send the desktop data of the first terminal device to the second terminal device.~~

~~54. The server according to claim 53, wherein the server further comprises a processing unit, wherein~~

~~the processing unit is configured to manage a desktop folder of the first terminal device and/or an APP comprised in the desktop folder; and~~

~~the sending unit is configured to send a first update message to the first terminal device, wherein the first update message indicates the first terminal device to update the desktop folder of the first terminal device and/or the APP comprised in the desktop folder.~~

~~55. The server according to claim 53 or 54, wherein~~

~~the receiving unit is further configured to receive a second update message sent by the first terminal device, wherein the second update message indicates the server to update the desktop folder of the first terminal device and/or the APP comprised in the desktop folder that are/is stored at the server end; and~~

~~the processing unit is further configured to update, according to the second update message, the desktop folder of the first terminal device and/or the APP comprised in the desktop folder.~~

~~56. The server according to any one of claims 53 to 55, wherein the sending unit is further configured to:~~

~~send an update message to the third terminal device when the desktop data of the first terminal device changes, wherein the update message is used to update changed desktop data of the first terminal device to the third terminal device, and the first terminal device and the third terminal device are already registered with the server.~~

~~57~~12. A terminal device, comprising a processor and a transceiver, wherein the processor and the transceiver are connected to a memory, the memory is configured to store a computer program, and the processor is configured to execute the computer program stored in the memory, to enable the terminal device to perform the method according to any one of claims 1 to ~~11~~7.

~~58~~13. A server, comprising a processor and a transceiver, wherein the processor and the

transceiver are connected to a memory, the memory is configured to store a computer program, and the processor is configured to execute the computer program stored in the memory, to enable the apparatus to perform the method according to any one of claims ~~12~~ 8 to ~~24~~11~~, or the method according to any one of claims 25 to 28~~.

~~59~~14. A ~~computer-readable storage medium, wherein the computer-readable storage medium stores a~~ computer program, and when the computer program is run, the method according to any one of claims 1 to 11, the method according to any one of claims 12 to ~~24~~13, ~~or the method according to any one of claims 25 to 28~~ is implemented.

~~60~~15. A chip, comprising a processor and an interface, wherein

the processor is configured to read an instruction to perform the method according to any one of claims 1 to 11~~, the method according to any one of claims 12 to 24, or the method according to any one of claims 25 to 28~~.

~~61. A system, wherein the system comprises the terminal device according to any one of claims 29 to 30, the server according to any one of claims 40 to 52, and the server according to any one of claims 53 to 56.~~