

CLAIMS

What is claimed is:

- 5 1. A barcode generation method, comprising:
receiving, using a server, a barcode generation request sent by an end-user device;
generating, using the server and based on the barcode generation request, at least two pieces
of barcode information by using at least two code systems, respectively; and
transmitting, using the server, a barcode generation response to the end-user device,
10 wherein the barcode generation response comprises the at least two pieces of barcode information,
wherein the barcode generation response causes an application running on the end-user device to
display on the end-user device, in an alternating manner, a respective barcode image corresponding
to each piece of the at least two pieces of barcode information.
- 15 2. The method according to claim 1, wherein the generating comprises:
identifying, based on information about a barcode scanning party, the at least two code
systems; and
for each of the at least two pieces of barcode information, generating, based on the barcode
generation request, a respective piece of barcode information by using one code system of the at
20 least two code systems.
3. The method according to claim 2, further comprising:
obtaining, from the barcode generation request, the information about the barcode scanning
party.
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4. The method according to claim 2, wherein the identifying further comprises:
identifying, based on positioning information of the end-user device, a merchant at which
the end-user device is located;
identifying a resolution of a barcode scanning device of the merchant;
30 identifying a plurality of code systems corresponding to the resolution of the barcode
scanning device; and

identifying the at least two code systems from the plurality of code systems.

5. The method according to claim 1, wherein each piece of the at least two pieces of barcode information comprises a corresponding piece of barcode data, and wherein each barcode image is generated by the end-user device by using a corresponding piece of barcode data.

6. The method according to claim 1, further comprising:
transmitting, by the application running on the end-user device, the barcode generation request to the server;

receiving, by the application running on the end-user device and from the server, the barcode generation response; and

causing, by the application running on the end-user device, a display on the end-user device of, alternately, each barcode image corresponding to each piece of the at least two pieces of barcode information.

7. The method according to claim 6, wherein the display comprises displaying, sequentially, each barcode image corresponding to each piece of the at least two pieces of barcode information for a corresponding predetermined duration.

8. A non-transitory, computer-readable medium storing one or more instructions executable by a computer system to perform operations comprising:

receiving, using a server, a barcode generation request sent by an end-user device;

generating, using the server and based on the barcode generation request, at least two pieces of barcode information by using at least two code systems, respectively; and

transmitting, using the server, a barcode generation response to the end-user device, wherein the barcode generation response comprises the at least two pieces of barcode information, wherein the barcode generation response causes an application running on the end-user device to display on the end-user device, in an alternating manner, a respective barcode image corresponding to each piece of the at least two pieces of barcode information.

9. The non-transitory, computer-readable medium according to claim 8, wherein the

generating comprises:

identifying, based on information about a barcode scanning party, the at least two code systems; and

for each of the at least two pieces of barcode information, generating, based on the barcode generation request, a respective piece of barcode information by using one code system of the at least two code systems.

10. The non-transitory, computer-readable medium according to claim 9, wherein the operations further comprise:

10 obtaining, from the barcode generation request, the information about the barcode scanning party.

11. The non-transitory, computer-readable medium according to claim 9, wherein the identifying further comprises:

15 identifying, based on positioning information of the end-user device, a merchant at which the end-user device is located;

identifying a resolution of a barcode scanning device of the merchant;

identifying a plurality of code systems corresponding to the resolution of the barcode scanning device; and

20 identifying the at least two code systems from the plurality of code systems.

12. The non-transitory, computer-readable medium according to claim 8, wherein each piece of the at least two pieces of barcode information comprises a corresponding piece of barcode data, and wherein each barcode image is generated by the end-user device by using a corresponding piece of barcode data.

13. The non-transitory, computer-readable medium according to claim 8, wherein the operations further comprise:

30 transmitting, by the application running on the end-user device, the barcode generation request to the server;

receiving, by the application running on the end-user device and from the server, the

barcode generation response; and

causing, by the application running on the end-user device, a display on the end-user device of, alternately, each barcode image corresponding to each piece of the at least two pieces of barcode information.

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14. The non-transitory, computer-readable medium according to claim 13, wherein the display comprises displaying, sequentially, each barcode image corresponding to each piece of the at least two pieces of barcode information for a corresponding predetermined duration.

10 15. A computer-implemented system, comprising:

one or more computers; and

one or more computer memory devices interoperably coupled with the one or more computers and having tangible, non-transitory, machine-readable media storing one or more instructions that, when executed by the one or more computers, perform one or more operations comprising:

receiving, using a server, a barcode generation request sent by an end-user device;

generating, using the server and based on the barcode generation request, at least two pieces of barcode information by using at least two code systems, respectively; and

transmitting, using the server, a barcode generation response to the end-user device,

15 wherein the barcode generation response comprises the at least two pieces of barcode information, wherein the barcode generation response causes an application running on the end-user device to display on the end-user device, in an alternating manner, a respective barcode image corresponding to each piece of the at least two pieces of barcode information.

20 16. The computer-implemented system according to claim 15, wherein the generating comprises:

identifying, based on information about a barcode scanning party, the at least two code systems; and

25 for each of the at least two pieces of barcode information, generating, based on the barcode generation request, a respective piece of barcode information by using one code system of the at least two code systems.

17. The computer-implemented system according to claim 16, wherein the operations further comprise:

obtaining, from the barcode generation request, the information about the barcode scanning party.

18. The computer-implemented system according to claim 16, wherein the identifying further comprises:

identifying, based on positioning information of the end-user device, a merchant at which the end-user device is located;

identifying a resolution of a barcode scanning device of the merchant;

identifying a plurality of code systems corresponding to the resolution of the barcode scanning device; and

identifying the at least two code systems from the plurality of code systems.

19. The computer-implemented system according to claim 15, wherein each piece of the at least two pieces of barcode information comprises a corresponding piece of barcode data, and wherein each barcode image is generated by the end-user device by using a corresponding piece of barcode data.

20. The computer-implemented system according to claim 15, wherein the operations further comprise:

transmitting, by the application running on the end-user device, the barcode generation request to the server;

receiving, by the application running on the end-user device and from the server, the barcode generation response; and

causing, by the application running on the end-user device, a display on the end-user device of, alternately, each barcode image corresponding to each piece of the at least two pieces of barcode information.