

CLAIMS

What is claimed is:

1. An information display method, comprising:
 - obtaining collection code information of a merchant;
 - converting the collection code information into a character string;
 - encrypting the character string to obtain encrypted character string information;
 - and
 - storing the encrypted character string information as a device identifier of the merchant;
 - obtaining at least one device identifier that is found based on a Bluetooth manner and that is sent by a user terminal, wherein the at least one device identifier comprises the encrypted character string information stored as the device identifier of the merchant;
 - determining name information of the merchant corresponding to the at least one device identifier;
 - obtaining first location coordinate information of the user terminal that is uploaded by the user terminal;
 - obtaining second location coordinate information of the merchant that is uploaded by the merchant;
 - calculating a distance between the merchant and the user terminal based on the first location coordinate information and the second location coordinate information, to obtain the distance information of the merchant;
 - generating merchant identification information comprising the name information of the merchant and the distance information of the merchant;
 - sorting merchants in ascending order of distances based on the distance information; and
 - sending sorted merchant identification information to a payment merchant selection interface of the user terminal for display, wherein the payment merchant selection interface is configured to provide the user terminal with merchant identification information that can be selected to make a payment.

2. The method according to claim 1, after the sending the merchant identification information to the payment merchant selection interface of the user terminal for display, further comprising:

- obtaining merchant identification information of a target merchant that is sent by the user terminal, wherein the target merchant is a merchant corresponding to merchant identification information selected in the payment merchant selection interface of the user terminal;

- determining collection account information corresponding to the merchant identification information of the target merchant based on the merchant identification information of the target merchant;

- obtaining payment information sent by the user terminal, wherein the payment information includes a payment amount; and

- sending a resource corresponding to the payment amount to an account corresponding to the collection account information.

3. The method according to claim 1, before the obtaining the collection code information of the merchant, further comprising:

- for a merchant that has completed a merchant registration service, obtaining a Bluetooth payment enabling operation performed by the merchant; and

- enabling a Bluetooth payment service for the merchant based on the Bluetooth payment enabling operation.

4. The method according to claim 1, wherein the determining the merchant identification information corresponding to the at least one device identifier includes:

- obtaining a pre-stored correspondence between a device identifier and merchant identification information; and

- determining the merchant identification information corresponding to the at least one device identifier based on the correspondence.

5. The method according to claim 1, wherein the determining the merchant identification information corresponding to the at least one device identifier includes:

- decrypting the device identifier to obtain a decrypted character string; and

- parsing the decrypted character string to determine merchant identification information included in the decrypted character string.

6. The method according to claim 1, further comprising:
before the obtaining at least one device identifier from the user terminal,
obtaining access information of the user terminal for a target application;
and
sending a Bluetooth search enabling instruction to the user terminal
based on the access information.

7. An information display apparatus, comprising:
a device identifier acquisition module, configured to obtain at least one device identifier that is found based on a Bluetooth manner and that is sent by a user terminal, wherein the at least one device identifier comprises encrypted character string information stored as a device identifier of a merchant;
a collection code information acquisition module, configured to obtain collection code information of the merchant;
a character string determining module, configured to convert the collection code information into a character string;
an encryption module, configured to encrypt the character string to obtain the encrypted character string information;
a device identifier storage module, configured to store the encrypted character string information as the device identifier of the merchant;
a merchant identification information determining module, configured to determine name information of the merchant corresponding to the at least one device identifier;
a first location coordinate information acquisition module, configured to obtain first location coordinate information of the user terminal that is uploaded by the user terminal;
a second location coordinate information acquisition module, configured to obtain second location coordinate information of the merchant that is uploaded by the merchant;
a distance information calculation unit, configured to calculate a distance between the merchant and the user terminal based on the first location coordinate information and the second location coordinate information, to obtain the distance information of the merchant;

a merchant identification information generation unit, configured to generate merchant identification information comprising the name information of the merchant and the distance information of the merchant;

a sorting subunit, configured to sort merchants in ascending order of distances based on the distance information; and

a merchant identification information display module, configured to send sorted merchant identification information to a payment merchant selection interface of the user terminal for display, wherein the payment merchant selection interface is configured to provide the user terminal with merchant identification information that can be selected to make a payment.

8. The apparatus according to claim 7, further comprising:

a target merchant identification information acquisition module, configured to obtain merchant identification information of a target merchant that is sent by the user terminal, wherein the target merchant is a merchant corresponding to merchant identification information selected in the payment merchant selection interface of the user terminal;

a collection account information determining module, configured to determine collection account information corresponding to the merchant identification information of the target merchant based on the merchant identification information of the target merchant;

a payment information acquisition module, configured to obtain payment information sent by the user terminal, wherein the payment information includes a payment amount; and

a payment module, configured to send a resource corresponding to the payment amount to an account corresponding to the collection account information.

9. An information display device, comprising:

at least one processor; and

a storage communicatively connected to the at least one processor, wherein

the storage stores instructions that can be executed by the at least one processor, and the instructions are executed by the at least one processor, to enable the at least one processor to perform the following operations:

obtaining collection code information of a merchant;

converting the collection code information into a character string;
encrypting the character string to obtain encrypted character string information;
storing the encrypted character string information as a device identifier of the merchant;

obtaining at least one device identifier that is found based on a Bluetooth manner and that is sent by a user terminal, wherein the at least one device identifier comprises the encrypted character string information stored as the device identifier of the merchant;

determining name information of the merchant corresponding to the at least one device identifier;

obtaining first location coordinate information of the user terminal that is uploaded by the user terminal;

obtaining second location coordinate information of the merchant that is uploaded by the merchant;

calculating a distance between the merchant and the user terminal based on the first location coordinate information and the second location coordinate information, to obtain the distance information of the merchant;

generating merchant identification information comprising the name information of the merchant and the distance information of the merchant;

sorting merchants in ascending order of distances based on the distance information; and

sending sorted merchant identification information to a payment merchant selection interface of the user terminal for display, wherein the payment merchant selection interface is configured to provide the user terminal with merchant identification information that can be selected to make a payment.

10. A non-transitory computer-readable storage medium, wherein the computer-readable medium stores computer-readable instructions, and the computer-readable instructions can be executed by a processor to implement the information display method according to any one of claims 1 to 6.