CLAIMS

WHAT IS CLAIMED IS:

1. A method for generating a differential electronic blue invoice, comprising:

in response to detection of a refund request and that a full-amount electronic blue invoice has been generated during payment process, detecting whether the refund request is a partial refund, wherein whether the full-amount electronic blue invoice has been generated is detected based on identification information of a user;

if the refund request is a partial refund, performing a full-amount red-voiding operation based on the full-amount electronic blue invoice to obtain a remaining paid fee, and cancelling the full-amount electronic blue invoice;

calling a preset differential electronic blue invoice generation interface, detecting, in the differential electronic blue invoice generation interface, a first generation request for generating the differential electronic blue invoice that corresponds to the refund request, and detecting whether there already exists in the differential electronic blue invoice generation interface a second generation request that is not executed;

if the first generation request is not detected and the second generation request does not exist in the differential electronic blue invoice generation interface, prohibiting the operation of generating the differential electronic blue invoice based on the remaining paid fee;

if the first generation request and the second generation request are both detected but the second generation request has been executed, obtaining a corresponding blue invoice number of the generated differential electronic blue invoice, and displaying the blue invoice number; and

if the first generation request is detected and the second generation request exists in the differential electronic blue invoice generation interface, discarding the second generation request, and detecting, based on the first generation request, whether a red-voiding item corresponding to the full-amount red-voiding operation satisfies preset conditions; if the red-voiding item satisfies the preset conditions, initiating the process of generating the differential electronic blue invoice; and generating the differential electronic blue invoice based on the remaining paid fee.

2. The method of claim 1, wherein, the block of “detecting whether a red-voiding item corresponding to the full-amount red-voiding operation satisfies preset conditions” includes the following operations:

detecting whether each of corresponding fields of the red-voiding item is a non-empty field;

detecting whether a length of each field satisfies a preset length; and

detecting whether each field is a mandatory field.

3. The method of claim 1, wherein, the block of “generating the differential electronic blue invoice based on the remaining paid fee” comprises the following operations:

generating a differential electronic blue invoice billing item based on the remaining paid fee; and

calling a preset billing interface and generating the differential electronic blue invoice based on the differential electronic blue invoice billing item.

4. The method of claim 1, wherein, the method further comprises the following operations subsequent to the block of “generating the differential electronic blue invoice based on the remaining paid fee”:

obtaining a blue invoice number, a billing amount, and a billing date of the differential electronic blue invoice; and

transmitting the blue invoice number, the billing amount, and the billing date to a mobile terminal.

5. The method of claim 1, wherein, the block of “performing a full-amount red-voiding operation based on the full-amount electronic blue invoice to obtain a remaining paid fee” comprises the following operations:

obtaining a billed item of the full-amount electronic blue invoice and a red-voiding item corresponding to the full-amount red-voiding operation; and

if the billed item has been red-voided by the red-voiding item, subtracting a corresponding monetary amount of the red-voiding item from the corresponding monetary amount of the billed item to obtain the remaining paid fee.

6. The method of claim 2, wherein, the block of “performing a full-amount red-voiding operation based on the full-amount electronic blue invoice to obtain a remaining paid fee” comprises the following operations:

obtaining a billed item of the full-amount electronic blue invoice and a red-voiding item corresponding to the full-amount red-voiding operation; and

if the billed item has been red-voided by the red-voiding item, subtracting a corresponding monetary amount of the red-voiding item from the corresponding monetary amount of the billed item to obtain the remaining paid fee.

7. The method of claim 3, wherein, the block of “performing a full-amount red-voiding operation based on the full-amount electronic blue invoice to obtain a remaining paid fee” comprises the following operations:

obtaining a billed item of the full-amount electronic blue invoice and a red-voiding item corresponding to the full-amount red-voiding operation; and

if the billed item has been red-voided by the red-voiding item, subtracting a corresponding monetary amount of the red-voiding item from the corresponding

monetary amount of the billed item to obtain the remaining paid fee.

8. The method of claim 4, wherein, the block of “performing a full-amount red-voiding operation based on the full-amount electronic blue invoice to obtain a remaining paid fee” comprises the following operations:

obtaining a billed item of the full-amount electronic blue invoice and a red-voiding item corresponding to the full-amount red-voiding operation; and

if the billed item has been red-voided by the red-voiding item, subtracting a corresponding monetary amount of the red-voiding item from the corresponding monetary amount of the billed item to obtain the remaining paid fee.

9. A device for generating a differential electronic blue invoice, comprising:

a detection module, configured to, in response to detection of a refund request and that a full-amount electronic blue invoice has been generated during payment process, detect whether the refund request is a partial refund, wherein whether the full-amount electronic blue invoice has been generated is detected based on identification information of a user; an execution module, configured to perform a full-amount red-voiding operation based on the full-amount electronic blue invoice to obtain a remaining paid fee if the refund request is a partial refund, and cancel the full-amount electronic blue invoice; and a generation module, configured to generate the differential electronic blue invoice based on the remaining paid fee;

wherein the detection module is further configured to call a preset differential electronic blue invoice generation interface, detect, in the differential electronic blue invoice generation interface, a first generation request for generating the differential electronic blue invoice that corresponds to the refund request, and detect whether there already exists in the differential electronic blue invoice generation interface a second generation request that is not executed;

the apparatus further comprises an execution prohibition module, configured to prohibit the operation of generating the differential electronic blue invoice based on the remaining paid fee if the first generation request is not detected and the second generation request does not exist in the differential electronic blue invoice generation interface; the apparatus further comprises a first acquisition module, configured to, if the first generation request and the second generation request are both detected but the second generation request has been executed, obtain a corresponding blue invoice number of the generated differential electronic blue invoice, and display the blue invoice number; and

the apparatus further comprises a discarding module configured to discard the second generation request, if the first generation request is detected and the second generation request exists in the differential electronic blue invoice generation interface; the detection module is further configured to detect, based on the first generation request, whether a red-voiding item corresponding to the full-amount red-voiding operation satisfies preset conditions; and

the apparatus further comprises a startup module configured to initiate the process of generating the differential electronic blue invoice if the red-voiding item satisfies the preset conditions.

10. An apparatus for generating a differential electronic blue invoice, wherein the apparatus comprises a memory, a processor, and a differential electronic blue invoice generation program that is stored in the memory and that is operable on the processor, the differential electronic blue invoice generation program when executed by the processor performing the operations of the method for generating a differential electronic blue invoice according to claim 1.

11. A computer-readable storage medium, having stored therein a differential electronic blue invoice generation program, which when executed by a processor performs the operations of the method for generating a differential electronic blue invoice according to claim 1.