

CLAIMS

What is claimed is:

1. A method comprising:
enhancing operation efficiency for processing an identification number by:
generating a short identification number corresponding to an original identification number, the short identification number having fewer digits than the original identification number,
setting a preset expiration time for the short identification number based at least in part on digits of the short identification number and a frequency of use of the short identification number, and
sending the short identification number to a user terminal for display;
in response to receiving an operation request that includes the short identification number:
searching for the original identification number corresponding to the short identification number, and
performing an operation based on information corresponding to the original identification number; and
deleting a corresponding relationship between the short identification number and the original identification number when a time length of storing the short identification number exceeds the preset expiration time.
2. The method of claim 1, wherein:
the operation request includes a query request; and
the performing the operation based on the information corresponding to the original identification number comprises:
using the original identification number to search for the information.
3. The method of claim 1, wherein:
the operation request includes a generation request for generating a Uniform Resource Locator (URL); and
the performing the operation based on the information corresponding to the original identification number comprises:

generating a URL indicating the original identification number as a URL of the information corresponding to the original identification number;
generating a URL indicating the short identification number; and
providing the URL indicating the short identification number to a user.

4. The method of claim 1, wherein:
the operation request includes a link request that carries a URL; and
the performing the operation based on the information corresponding to the original identification number comprises:
replacing the short identification number indicated by the URL with the original identification number; and
linking to relevant information through the replaced URL.
5. The method of claim 1, wherein the generating the short identification number corresponding to the original identification number comprises:
receiving a request for generating the short identification number; and
generating the short identification number based on a preset rule.
6. The method of claim 5, further comprising:
determining that the generated short identification number exists in stored short identification numbers corresponding to each original identification number; and
re-generating another short identification number based on the preset rule until when the re-generated short identification number does not exist in the stored short identification numbers corresponding to each original identification number.
7. The method of claim 5, further comprising:
determining that the generated short identification number does not exist in the stored short identification numbers corresponding to each original identification number; and

using the generated short identification number generated as the short identification number generated corresponding to the original identification number.

8. The method of claim 5, wherein the generating the short identification number based on the preset rule comprises generating the short identification number in a preset value range.
9. The method of claim 1, wherein the original identification number includes:
a product number;
a transaction number; or
an order number.
10. An apparatus comprising:
one or more processors;
memory couple to the one or more processors, the memory storing a plurality of modules including:
a generating module configured to enhance operation efficiency for processing an identification number by generating a short identification number corresponding to an original identification number, the short identification number having fewer digits than the original identification number, set a preset expiration time for the short identification number based at least in part on digits of the short identification number and a frequency of use of the short identification number, and send the short identification number to a user terminal for display;
a storing module configured to a corresponding relationship between the short identification number and the original identification number when a time length of storing the short identification number exceeds the preset expiration time of the short identification number; and
an operating module configured to receive an operation request including the short identification number, and in response to receiving the operation request, search for the original identification number

corresponding to the short identification number and perform an operation based on information corresponding to the original identification number.

11. The apparatus of claim 10, wherein the generating module is further configured to:
receive a request for generating the short identification number; and
generate the short identification number based on a preset rule.
12. The apparatus of claim 11, wherein the generating module is further configured to:
determine that the generated short identification number exists in stored short identification numbers corresponding to each original identification number; and
re-generate another short identification number based on the preset rule until when the re-generated short identification number does not exist in the stored short identification numbers corresponding to each original identification number.
13. The apparatus of claim 11, wherein the generating module is further configured to:
determine that the generated short identification number does not exist in the stored short identification numbers corresponding to each original identification number; and
use the generated short identification number generated as the short identification number generated corresponding to the original identification number.
14. The apparatus of claim 10, wherein the generating module is further configured to generate the short identification number in a preset value range.
15. One or more memories having stored thereon computer-executable instructions executable by one or more processors to perform operations comprising:

enhancing operation efficiency for processing an identification number by:

- generating a short identification number corresponding to an original identification number, the short identification number having fewer digits than the original identification number,

- setting a preset expiration time for the short identification number based at least in part on digits of the short identification number and a frequency of use of the short identification number, and

- sending the short identification number to a user terminal for display;

in response to receiving an operation request that includes the short identification number:

- searching for the original identification number corresponding to the short identification number, and

- performing an operation based on information corresponding to the original identification number; and

- deleting a corresponding relationship between the short identification number and the original identification number when a time length of storing the short identification number exceeds the preset expiration time.

16. The one or more memories of claim 15, wherein the generating the short identification number corresponding to the original identification number comprises:

- receiving a request for generating the short identification number; and
- generating the short identification number based on a preset rule.

17. The one or more memories of claim 16, wherein the generating the short identification number based on the preset rule comprises generating the short identification number in a preset value range.