CLAIMS

What is claimed is:

1. A method for processing a short link, the method comprising:

receiving a short link application request from a requester, wherein the application request comprises a first long link URL (210);

determining a corresponding first database table identifier based on the first long link URL (220);

determining whether a first database corresponding to the first database table identifier falls within an access range of the server (230);

in response to determining that the first database falls within the access range of the server, obtaining a corresponding first short link URL from the first database (240); and

sending the first short link URL to the requester (240).

2. The method according to claim 1, wherein determining a corresponding first database table identifier based on the first long link URL comprises:

determining a corresponding first digest value based on the first long link URL (310); and

determining the corresponding first database table identifier based on the first digest value (320).

3. The method according to claim 2, wherein determining a corresponding first digest value based on the first long link URL comprises:

determining the first digest value corresponding to the first long link URL by using a message digest algorithm, wherein the first digest value is a digest value of the message digest algorithm; or

determining the first digest value corresponding to the first long link URL by using a secure hash algorithm, wherein the first digest value is a digest value of the secure hash algorithm.

4. The method according to claim 2, wherein the first database table identifier is expressed as

a number or a character.

5. The method according to claim 2, wherein obtaining a corresponding first short link URL from the first database, and sending the first short link URL to the requester comprises:

searching the first database for a first simplified short link corresponding to the first digest value (400); and

if the first simplified short link is found and a second long link URL corresponding to the found first simplified short link is the same as the first long link URL comprised in the application request, forming the first short link URL based on the found first simplified short link, and sending the first short link URL to the requester (410, 420).

6. The method according to claim 5, wherein obtaining a corresponding first short link URL from the first database, and sending the first short link URL to the requester further comprises:

if the first simplified short link is not found or the second long link URL corresponding to the found first simplified short link is different from the first long link URL comprised in the application request, generating a corresponding second simplified short link based on the first database table identifier (410, 440); and

in response to determiningthat the second simplified short link is not used, forming a second short link URL based on the second simplified short link, and sending the second short link URL to the requester (450).

7. The method according to claim 5 or 6, wherein the application request further comprises a validity period of the short link, and the method further comprises:

setting the validity period of the first simplified short link or of the second simplified short link to the validity period comprised in the application request (510); and

deleting corresponding storage information when the validity period expires (520).

8. The method according to claim 6, wherein the method further comprises:

binding and storing, in the first database, the second simplified short link, the corresponding first long link URL, the corresponding first digest value, and a corresponding validity period.

9. The method according to claim 1, wherein in response to determining that the first database corresponding to the first database table identifier falls within an access range of the server, the method further comprises:

in response to determining that the first database does not fall within the access range of the server, forwarding the application request to a server that can access the first database, and the server obtains the corresponding first short link URL from the first database based on the application request, and sends the first short link URL to the requester (230).

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

receiving a short link access request from the requester, wherein the access request comprises a third short link URL (610);

determining a corresponding second database table identifier based on the third short link URL (620);

determining whether a second database corresponding to the second database table identifier falls within the access range of the server (630); and

in response to determiningthat the second database falls within the access range of the server, obtaining a corresponding third long link URL from the second database, and jumping to the third long link URL (640).

11. The method according to claim 10, wherein determining a corresponding second database table identifier based on the third short link URL comprises:

extracting a third simplified short link from the third short link URL (710); and

generating the corresponding second database table identifier based on the third simplified short link (720).

12. The method according to claim 11, wherein obtaining a corresponding third long link URL from the second database, and jumping to the third long link URL comprises:

searching the second database for the third simplified short link; and

if the third simplified short link is found and a validity period of the third simplified short

link does not expire, jumping to the third long link URL corresponding to the third simplified short link (810).

13. The method according to claim 12, wherein obtaining a corresponding third long link URL from the second database corresponding to the second database table identifier, and jumping to the third long link URL further comprises:

jumping to a specified URL if the third simplified short link is not found or the validity period of the found third simplified short link expires (820).

14. The method according to claim 10, wherein in response to determining that the second database corresponding to the second database table identifier falls within the access range of the server, the method further comprises:

in response to determining that the second database does not fall within the access range of the server, forwarding the access request to a server that can access the first database, and the server obtains the corresponding third short link URL from the second database based on the access request, and jumps to the third long link URL (830).

15. An apparatus for processing a short link, the apparatus comprising a plurality of modules configured to perform the method of any one of claims 1 to 14.