

CLAIMS

What is claimed is:

1. A method for processing a two-dimensional code, the method comprising:
 - in response to receiving a two-dimensional code generation request sent by a two-dimensional code display client, generating static two-dimensional code information based on a user identifier carried in the two-dimensional code generation request;
 - generating a random feature value, wherein the random feature value is used to limit a display feature of dynamic feature information displayed by the two-dimensional code display client; and
 - sending the static two-dimensional code information and the random feature value to the two-dimensional code display client, so that the two-dimensional code display client displays a combinational two-dimensional code, wherein the displayed combinational two-dimensional code comprises the static two-dimensional code information and the dynamic feature information displayed based on the random feature value.
2. The method of claim 1, wherein the method further comprises:
 - storing a mapping relationship between the random feature value and the static two-dimensional code information; and
 - wherein after sending the static two-dimensional code information and the random feature value to the two-dimensional code display client, the method further comprises:
 - receiving a two-dimensional code verification request sent by a two-dimensional code scanning client, wherein the two-dimensional code verification request comprises the static two-dimensional code information obtained by parsing the scanned combinational two-dimensional code by the two-dimensional code scanning client and the random feature value obtained based on the dynamic feature information; and
 - obtaining a random feature value corresponding to the static two-dimensional code information; and
 - in response to determining that the random feature value obtained based on the dynamic feature information is the same as the random feature value corresponding

to the static two-dimensional code information, returning an indication that the two-dimensional code scanning was successful to the two-dimensional code scanning client.

3. The method of claim 1 or 2, wherein the random feature value comprises a frame rate of the dynamic feature information displayed by the two-dimensional code display client.

4. The method of claim 1 or 2, wherein the dynamic feature information comprises information that changes with time.

5. The method of claim 4, wherein the dynamic feature information comprises a video.

6. A method for processing a two-dimensional code, the method comprising:
sending a two-dimensional code generation request to a server, wherein the two-dimensional code generation request comprises a user identifier;
receiving a combinational two-dimensional code returned by the server, wherein the combinational two-dimensional code comprises a random feature value generated by the server and static two-dimensional code information generated by the server based on the user identifier;
generating dynamic feature information based on the random feature value; and
combining the dynamic feature information and a static two-dimensional code to form a combinational two-dimensional code for displaying.

7. The method of claim 6, wherein the random feature value comprises a frame rate of the dynamic feature information displayed by the two-dimensional code display client.

8. The method of claim 7, wherein the dynamic feature information comprises a video.

9. The method of claim 8, wherein the random feature value comprises a video frame rate, and wherein the two-dimensional code display client:

locally pre-stores the video; and
adjusts the frame rate of the video by using the random video frame rate, to generate a video displayed at the frame rate sent by the server.

10. The method of any one of claims 6 to 9, further comprising:
scanning the combinational two-dimensional code displayed on a two-dimensional code display client;
parsing the combinational two-dimensional code to obtain the static two-dimensional code information;
obtaining a random feature value based on the dynamic feature information; and
sending the random feature value and the static two-dimensional code information to a server to request the server to verify the random feature value.

11. The method of claim 10, wherein the dynamic feature information is a video, and the random feature value obtained based on the dynamic feature information is a frame rate of the video; and
parsing the combinational two-dimensional code to obtain a random feature value obtained based on the dynamic feature information comprises:
scanning the video at a first time point to obtain a first video frame image;
scanning the video at a second time point to obtain a second video frame image;
and
obtaining a frame rate of the video by performing calculation based on a time difference between the first time point and the second time point and respective frame identifiers corresponding to the first video frame image and the second video frame image.

12. A two-dimensional code processing apparatus, comprising multiple modules configured to perform the method of any one of claims 1 to 5.

13. A two-dimensional code processing apparatus, comprising multiple modules configured to perform the method of any one of claims 6 to 11.