CLAIMS

1. A method for displaying a payment page, the method comprising:

receiving, by a client computing device, a first signal within a predetermined range;

determining whether the first signal received by the client computing device comprises a predetermined characteristic signal; and

in response to determining that the first signal received by the client computing device comprises the predetermined characteristic signal, displaying, by the client computing device, a payment page, wherein the payment page comprises a payment authorization code associated with a user.

2. The method according to claim 1, wherein the first signal comprises an optical wave signal or an acoustic wave signal.

3. The method according to claim 1, wherein the predetermined range comprises:

a range formed by using the client computing device as a center and using a predetermined distance as a radius.

4. The method according to claim 3, wherein the predetermined distance is from about 0 to about 1 meter.

5. The method according to claim 1, wherein the predetermined range comprises a conical range.

6. The method according to claim 5, wherein the conical range is formed by using a direction perpendicular to a display screen of the client-computing device as an axis, using an angle between another direction and the axis as a predetermined angle, and using a distance from the client-computing device to the display screen as a predetermined distance.

7. The method according to claim 6, wherein the predetermined angle is within a range from

about 10 degrees to about 90 degrees.

8. The method according to claim 1, wherein the predetermined characteristic signal comprises an optical wave signal with a predetermined wavelength or an acoustic wave signal with a predetermined frequency.

9. The method according to claim 1, wherein the client-computing device comprises a signal receiver.

10. The method according to claim 9, wherein the signal receiver comprises a photosensitive sensor or an acoustic wave sensor.

11. A client-computing device, the device comprising a plurality of modules configured to perform the method of any one of claims 1 to 10.