CLAIMS

What is claimed is:

1. An order generation method for a software interface, the method being applied in a user equipment (UE) and comprising steps of:

collecting, by the UE, operation information about an operating user's operation on the software interface, and determining, by the UE, an operation type and an operation coordinate of the operating user's operation on the software interface based on the operation information;

acquiring, by the UE, a coordinate set in a price coordinate system of the software interface, the coordinate set comprising a plurality of coordinate values; calculating, by the UE, differences between the operation coordinate and the plurality of coordinate values to obtain a plurality of difference values, extracting, by the UE, a minimum difference value from the plurality of difference values, and obtaining, by the UE, a first price corresponding to the minimum difference value;

generating, by the UE, a first straight line matching the first price and the operation type to generate an order corresponding to the first straight line, and sending, by the UE, a transaction request to a background server after superimposing, by the UE, the first straight line onto the software interface, the transaction request comprising the first price and the operation type; and

acquiring, by the UE, a window message triggered by the operating user, acquiring, by the UE, a second straight line responding to the window message and a state the second straight line is in, and terminating, by the UE, the window message and stopping, by the UE, the responding of the second straight line when the second straight line is in a predetermined state,

wherein the method further comprises:

acquiring, by the UE, another window message triggered by the operating user, identifying, by the UE, the operating user to determine a first identity of the operating user, and extracting, by the UE, weight value data corresponding to the first identity; and

extracting, by the UE, data and information about each straight line on the software interface, generating, by the UE, a respective piece of input data of the data and information

about each straight line, performing, by the UE, a calculation on the respective piece of input data and the weight value data to obtain a respective calculation result for the respective piece of input data, determining, by the UE, a third straight line matching the other window message by comparing the respective calculation result with a predetermined result, and determining, by the UE, the third straight line as a straight line responding to the other window message.

2. The method according to claim 1, wherein said terminating the window message when the second straight line is in the predetermined state comprises:

determining that the window message indicates a non-order modification and determining the second straight line not to respond to the window message, when the predetermined state is that the window message is terminated.

3. The method according to claim 1, wherein said identifying the operating user to determine the first identity of the operating user comprises:

acquiring a target facial image from a target image of the operating user;

performing an authentication on the target facial image; and

determining that the operating user is the first identity corresponding to a predetermined face module, when the authentication of the target facial image passes.

4. The method according to claim 3, wherein said performing the authentication on the target facial image comprises:

performing a regional division on the target facial image to obtain a target facial region, wherein the target facial region is a regional image of a human face;

binarizing the target facial region to obtain a binarized facial image;

dividing the binarized facial image into a plurality of regions each having a same area greater than a predetermined area size;

performing feature point extraction on the binarized facial image to obtain a plurality of feature points;

determining a feature point distribution density corresponding to each of the plurality of regions based on the plurality of feature points to obtain a plurality of feature point distribution densities;

determining a target mean square error based on the plurality of feature point distribution densities;

determining a target quality evaluation value corresponding to the target mean square error according to a predetermined mapping relationship between mean square errors and quality evaluation values;

performing an image enhancement on the target facial image when the target quality evaluation value is smaller than a predetermined quality evaluation value, and matching the target facial image after the image enhancement with a predetermined human face template to obtain a matching value; and

determining that the authentication of the target facial image passes when the matching value is greater than a predetermined threshold value.

5. The method according to claim 1, wherein said extracting the weight value data corresponding to the first identity comprises:

configuring in advance a plurality of pieces of weight value data corresponding to a plurality of identities; and

extracting, from the plurality of pieces of weight value data corresponding to the plurality of identities, the weight value data corresponding to the first identity.

6. The method according to claim 1, wherein said extracting, by the UE, the data and information about each straight line on the software interface, and generating, by the UE, the respective piece of input data of the data and information about each straight line comprise:

determining, by the UE, a first size of the weight value data, determining a second size matching the first size, processing, by the UE, the data and information about each straight line to obtain a plurality of element values matching the second size, and arranging, by the UE, the plurality of element values to obtain the input data of the data and information about each straight line.

7. The method according to any of claims 1 to 6, further comprising:

identifying, by the UE, the software interface to determine operation types of all straight lines, and grouping straight lines of a same operation type into s same set; and

performing, by the UE, similarity calculation on data and information about a plurality of straight lines in the same set to obtain w similarities, and combining n straight lines with similarities smaller than a similarity threshold value into one straight line to be displayed on the software interface.

8. The method according to claim 7, wherein said performing, by the UE, the similarity calculation on the data and information about the plurality of straight lines in the same set to obtain the w similarities comprises:

arranging, by the UE, the plurality of straight lines in the same set to obtain a queue, and calculating a price difference between every two adjacent straight lines in the queue to obtain w price differences, the w price differences being the w similarities.

9. The method according to claim 8, wherein said combining the n straight lines with the similarities smaller than the similarity threshold value into one straight line to be displayed on the software interface comprises:

determining a display magnification corresponding to the software interface, determining the similarity threshold value based on the display magnification, and comparing the w similarities with the similarity threshold value to determine the n straight lines with the similarities smaller than the similarity threshold value, wherein the n straight lines are all adjacent lines in the queue.

10. The method according to claim 7, further comprising:

ranking, according to a predetermined rule, n pieces of information corresponding to the n straight lines combined into said one straight line, and then displaying the n pieces of information in the ranked order in an information display region for said one straight line,

wherein the predetermined rule comprises a descending order of n time values of the n lines, an ascending order of the n time values of the n lines, a descending order of n prices of the n lines, or an ascending order of the n prices of the n lines.

11. The method according to claim 1, wherein said acquiring, by the UE, the coordinate set in the price coordinate system of the software interface comprises:

determining, by the UE, a financial display region of the software interface, acquiring, by the UE, all coordinate values corresponding to all transaction prices in the financial display region, and grouping, by the UE, said all coordinate values into one set to obtain the coordinate set.

12. The method according to claim 1, wherein said generating, by the UE, the first straight line matching the first price and the operation type and sending, by the UE, the transaction request to the background server after superimposing, by the UE, the first straight line onto the

software interface comprise:

generating, by the UE, the first straight line parallel to an X-axis, wherein a Y-axis coordinate value of the first straight line is a Y-axis coordinate value corresponding to the first price; superimposing, by the UE, the first straight line onto the software interface; and sending, by the UE, the transaction request to the background server.

13. A transaction system, comprising a user equipment (UE) and a background server, wherein

the user equipment is configured to collect operation information about an operating user's operation on a software interface of the UE, and determine an operation type and an operation coordinate of the operating user's operation on the software interface based on the operation information; acquire a coordinate set in a price coordinate system of the software interface, the coordinate set comprising a plurality of coordinate values; calculate differences between the operation coordinate and the plurality of coordinate values to obtain a plurality of difference values, extract a minimum difference value from the plurality of difference values, and obtain a first price corresponding to the minimum difference value; generate a first straight line matching the first price and the operation type to generate an order corresponding to the first straight line, and send a transaction request to a background server after superimposing the first straight line onto the software interface, the transaction request comprising the first price and the operation type; and acquire a window message triggered by the operating user, acquire a second straight line responding to the window message and a state the second straight line is in, and terminate the window message and stop the responding of the second straight line when the second straight line is in a predetermined state; and

the background server is configured to refresh lines of a price chart on the software interface based on the first price and the operation type and return the refreshed price chart to the UE for display,

wherein the UE is further configured to acquire another window message triggered by the operating user, identify the operating user to determine a first identity of the operating user, and extract weight value data corresponding to the first identity; and extract data and information about each straight line on the software interface, generate a respective piece of input data of the data and information about each straight line, perform a calculation on the respective piece

of input data and the weight value data to obtain a respective calculation result for the respective piece of input data, determine a third straight line matching the other window message by comparing the respective calculation result with a predetermined result, and determine the third straight line as a straight line responding to the other window message.

14. A user equipment (UE), comprising:

a collecting unit configured to collect operation information about an operating user's operation on a software interface of the UE;

a processing unit configured to determine an operation type and an operation coordinate of the operating user's operation on the software interface based on the operation information; acquire a coordinate set in a price coordinate system of the software interface, the coordinate set comprising a plurality of coordinate values; calculate differences between the operation coordinate and the plurality of coordinate values to obtain a plurality of difference values, extract a minimum difference value from the plurality of difference values, and obtain a first price corresponding to the minimum difference value; and generate a first straight line matching the first price and the operation type to generate an order corresponding to the first straight line and superimpose the first straight line onto the software interface; and

a communication unit configured to send a transaction request to a background server, the transaction request comprising the first price and the operation type,

wherein the processing unit is further configured to acquire a window message triggered by the operating user, acquire a second straight line responding to the window message and a state the second straight line is in, and terminate the window message and stop the responding of the second straight line when the second straight line is in a predetermined state,

wherein the processing is further configured to acquire another window message triggered by the operating user, identify the operating user to determine a first identity of the operating user, and extract weight value data corresponding to the first identity; and extract data and information about each straight line on the software interface, generate a respective piece of input data of the data and information about each straight line, perform a calculation on the respective piece of input data and the weight value data to obtain a respective calculation result for the respective piece of input data, determine a third straight line matching the other window message by comparing the respective calculation result with a predetermined result, and

determine the third straight line as a straight line responding to the other window message.

15. A computer-readable storage medium, having a computer program for electronic data exchange stored therein, wherein the computer program causes a computer to perform the method according to any of claims 1 to 12.