CLAIMS

[Claim 1] A method of providing a delivery order performed by a server, the method comprising:

identifying a delivery order comprising information on a departure location and a delivery location;

determining a wireless terminal of a regular rider to provide the delivery order among wireless terminals of regular riders registered in the server based on information on the wireless terminals and the departure location and the delivery location of the delivery order;

transmitting the delivery order to the determined wireless terminal of the regular rider;

when a processing response is not received from the determined wireless terminal of the regular rider within a first predetermined period of time, transmitting a list comprising the delivery order to the wireless terminals of the regular riders registered in the server;

when a processing response is not received from the wireless terminals, to which the list is transmitted, within a second predetermined period of time, determining a wireless terminal of a crowdsourcing rider to provide the delivery order among wireless terminals of crowdsourcing riders registered in the server based on a first required time for a route from a terminal position of the wireless terminal of the crowdsourcing rider to the departure location and a second required time for a route from the departure location to the delivery location, the first required time and the second required time being determined based on a transportation of the crowdsourcing rider; and

transmitting the delivery order to the wireless terminal of the crowdsourcing rider.

[Claim 2] The method of claim 1, further comprising:

when a processing response is not received from the wireless terminal of the crowdsourcing rider registered in the server, to which the delivery order is transmitted, within a third predetermined period of time, redetermining a wireless terminal of a regular rider to provide the delivery order among the wireless terminals of the regular riders registered in the server based on the information on the wireless terminals and the departure location and the delivery location of the delivery order; and

transmitting the delivery order to the redetermined wireless terminal of the regular

rider,

wherein the determining of the wireless terminal of the crowdsourcing rider comprises:

when a processing response is not received from the redetermined wireless terminal within a fourth predetermined period of time, determining the wireless terminal of the crowdsourcing rider to provide the delivery order among the wireless terminals of the crowdsourcing riders registered in the server.

[Claim 3] The method of claim 1, wherein the information on the wireless terminal comprises i) a terminal position of the wireless terminal, ii) a number of delivery orders assigned to the wireless terminal, and iii) a terminal ID of the wireless terminal.

[Claim 4] The method of claim 1, wherein the determining of the wireless terminal of the regular rider comprises:

determining the wireless terminal of the regular rider to provide the delivery order based on a distance between the departure location and terminal positions of the wireless terminals of the regular riders.

[Claim 5] The method of claim 1, wherein the determining of the wireless terminal of the regular rider comprises:

determining the wireless terminal of the regular rider to provide the delivery order in consideration of a number of delivery orders assigned to each wireless terminal of the regular riders and a delivery order limit of each wireless terminal of the regular riders.

[Claim 6] A method of providing a delivery order performed by a wireless terminal of a regular rider in communication with a server performing the method of any one of claims 1 to 5, the method comprising:

transmitting information on the wireless terminal to the server;

receiving a delivery order comprising information on a departure location and a delivery location from the server;

displaying the departure location and the delivery location of the delivery order on a display of the wireless terminal; and

transmitting a processing response to the delivery order to the server.

[Claim 7] The method of claim 6, wherein the information on the wireless terminal comprises:

i) a terminal position of the wireless terminal, ii) a number of delivery orders assigned to the wireless terminal, and iii) a terminal ID of the wireless terminal.

[Claim 8] A method of providing a delivery order performed by a wireless terminal of a regular rider in communication with a server performing the method of any one of claims 1 to 5, the method comprising:

receiving a list of delivery orders comprising information on a departure location and a delivery location from the server;

displaying the list on a display of the wireless terminal; and

transmitting a processing response to one of the delivery orders included in the list to the server.

[Claim 9] A method of providing a delivery order performed by a wireless terminal of a crowdsourcing rider in communication with a server performing the method of any one of claims 1 to 5, the method comprising:

transmitting information on the wireless terminal to the server;

receiving a delivery order comprising information on a departure location and a delivery location from the server;

displaying the departure location and the delivery location of the delivery order on a display of the wireless terminal; and

transmitting a processing response to the delivery order to the server.

[Claim 10] The method of claim 9, wherein the information on the wireless terminal comprises i) a terminal position of the wireless terminal, ii) a transportation of the crowdsourcing rider, and iii) a terminal ID of the wireless terminal.

[Claim 11] A non-transitory computer-readable storage medium storing instructions that, when executed by a processor, cause the processor to perform the method of one of claims 1 to 10.

[Claim 12] A server for performing a method of providing a delivery order, the server comprising:

a processor,

wherein the processor is configured to:

identify a delivery order comprising information on a departure location and a delivery location;

determine a wireless terminal of a regular rider to provide the delivery order among wireless terminals of regular riders registered in the server based on information on the wireless terminals and the departure location and the delivery location of the delivery order;

transmit the delivery order to the determined wireless terminal of the regular rider;

when a processing response is not received from the determined wireless terminal of the regular rider within a first predetermined period of time, transmit a list comprising the delivery order to the wireless terminals of the regular riders registered in the server;

when a processing response is not received from the wireless terminals, to which the list is transmitted, within a second predetermined period of time, determine a wireless terminal of a crowdsourcing rider to provide the delivery order among wireless terminals of crowdsourcing riders registered in the server based on a first required time for a route from a terminal position of the wireless terminal of the crowdsourcing rider to the departure location and a second required time for a route from the departure location to the delivery location, the first required time and the second required time being determined based on a transportation of the crowdsourcing rider; and

transmit the delivery order to the wireless terminal of the crowdsourcing rider.

[Claim 13] The server of claim 12, wherein the processor is further configured to, when a processing response is not received from the wireless terminal of the crowdsourcing rider registered in the server to which the delivery order is transmitted within a third predetermined period of time, redetermine a wireless terminal of a regular rider to provide the delivery order among the wireless terminals of the regular riders registered in the server based on the information on the wireless terminals and the departure location and

the delivery location of the delivery order; and

transmit the delivery order to the redetermined wireless terminal of the regular rider,

wherein the determining of the wireless terminal of the crowdsourcing rider comprises:

when a processing response is not received from the redetermined wireless terminal within a fourth predetermined period of time, determine the wireless terminal of the crowdsourcing rider to provide the delivery order among the wireless terminals of the crowdsourcing riders registered in the server.

[Claim 14] The server of claim 12, wherein the information on the wireless terminal comprises i) a terminal position of the wireless terminal, ii) a number of delivery orders assigned to the wireless terminal, and iii) a terminal ID of the wireless terminal.

[Claim 15] The server of claim 12, wherein the determining of the wireless terminal of the regular rider comprises:

determining the wireless terminal of the regular rider to provide the delivery order based on a distance between the departure location and terminal positions of the wireless terminals of the regular riders and/or in consideration of a number of delivery orders assigned to each wireless terminal of the regular riders and a delivery order limit of each wireless terminal of the regular riders.

[Claim 16] The server of claim 12, wherein the determining of the wireless terminal of the crowdsourcing rider comprises:

determining the wireless terminal of the crowdsourcing rider to provide the delivery order in consideration of i) a distance between the departure location and terminal positions of the wireless terminals of the crowdsourcing riders and ii) a transportation of the crowdsourcing rider.

[Claim 17] A wireless terminal of a regular rider for performing a method of providing a delivery order in communication with the server of claim 12, the wireless terminal comprising:

a processor,

wherein the processor is configured to:

transmit information on the wireless terminal to the server;

receive a delivery order comprising information on a departure location and a delivery location from the server;

display the departure location and the delivery location of the delivery order on a display of the wireless terminal; and

transmit a processing response to the delivery order to the server.

[Claim 18] A wireless terminal of a regular rider for performing a method of providing a delivery order in communication with the server of claim 12, the wireless terminal comprising:

a processor,

wherein the processor is configured to:

receive a list of delivery orders comprising information on a departure location and a delivery location from the server;

display the list on a display of the wireless terminal; and

transmit a processing response to one of the delivery orders included in the list to the server.

[Claim 19] A wireless terminal of a crowdsourcing rider for performing a method of providing a delivery order in communication with the server of claim 12, the wireless terminal comprising:

a processor,

wherein the processor is configured to:

transmit information on the wireless terminal to the server;

receive a delivery order comprising information on a departure location and a delivery location from the server;

display the departure location and the delivery location of the delivery order on a display of the wireless terminal; and

transmit a processing response to the delivery order to the server.