CLAIMS

[Claim 1] A server configured to perform a method of providing a region-based delivery order, the server comprising:

a processor, wherein the processor is configured to:

receive delivery orders comprising information on a store position and a delivery position, identify a service region of a branch to which a rider performing delivery belongs, according to the delivery orders and a supply region of the branch, identify information on a terminal position of a wireless terminal of the rider, and determine i) information on a store position of each of the delivery orders and a delivery position of each of the delivery orders, ii) the service region of the branch and the supply region of the branch, and iii) a type of each of the delivery orders according to a relationship of the terminal position, and provide the delivery orders and the determined types of the delivery orders to the wireless terminal, wherein: when the terminal position does not belong to the supply region of the branch, a store position of a delivery order is within a certain distance from the terminal position, and a delivery position of the delivery order belongs to the supply region of the branch, the type of the delivery order is determined to be a return order; and/or

when the terminal position does not belong to the supply region of the branch, a store position of a delivery order is within a certain distance from the terminal position, and a delivery position of the delivery order does not belong to the supply region of the branch but a distance from the delivery position to the service region of the branch is less than a distance from the terminal position to the service region, the type of the delivery order is determined to be a return order.

[Claim 2] The server of claim 1, wherein

The service region is a region determined based on a store position of stores requesting the delivery orders to the branch, and

the supply region is determined based on an operation range of the rider to process delivery orders from the service region in the branch.

[Claim 3] The server of claim 1, wherein, in the determining the type of the delivery orders,

when a store position of a delivery order belongs to the service region, the type of the delivery order is determined to be a service order.

[Claim 4] The server of claim 1, wherein, in the determining the type of the delivery orders,

when a store position of a delivery order belongs to the service region, and a delivery position of the delivery order does not belong to the supply region, the type of the delivery order is determined to be a long-distance order.

[Claim 5] The server of claim 4, wherein when the terminal position belongs to the supply region of the branch, a store position of a delivery order is within the supply region of the branch, and a delivery position of the delivery order is outside the supply region of the branch, the delivery order is not provided to the wireless terminal.

[Claim 6] The server of claim 1, wherein, in the determining the type of the delivery orders,

when a store position of a delivery order does not belong to the service region of the branch, and the store position of the delivery order and a delivery position of the delivery order belong to the supply region of the branch, the type of the delivery order is determined to be a shared order.

[Claim 7] The server of claim 6, wherein, when the terminal position belongs to the supply region of the branch, and a distance from delivery position of the delivery order to the service region is greater than a distance from the store position of the delivery order to the region, the order is determined to be a shared order but is not provided to the wireless terminal.

[Claim 8] The server of claim 3, wherein the providing the delivery orders and the determined type of the delivery orders comprises:

when the terminal position belongs to the supply region, providing the delivery orders of which the type of the delivery order is either a long-distance order or a shared order.

[Claim 9] The server of claim 3, wherein the providing the delivery orders and the determined type of the delivery orders further comprises:

when the terminal position does not belong to the supply region, providing the delivery orders of which the type of the delivery order is either a service order or a return

order.

[Claim 10] The server of claim 1, wherein when the store position of a delivery order is within a certain distance from the terminal position of the wireless terminal of the rider, but the distance from the delivery position of the delivery order to the service region of the branch is greater than the distance from the terminal position of the wireless terminal of the rider to the service region of the branch, the delivery order is not provided to the rider but provided to a rider of another branch.

[Claim 11] The server of claim 1, wherein when the distance from the delivery position of a delivery order to the service region of the branch to which the rider belongs is less than the distance from the terminal position of the wireless terminal of the rider to the service region, but the store position of the delivery order is not within a certain distance from the terminal position of the wireless terminal of the rider, the delivery order is not provided to the rider but provided to a rider of another branch.

[Claim 12] A server configured to perform a method of providing a region-based delivery order, the server comprising:

a processor, wherein the processor is configured to:

receive a delivery order comprising information on a store position and a delivery position, identify a service region of branches to which riders performing delivery belong according to the delivery order and a supply region of the branches, identify information on terminal positions of wireless terminals of the riders, and determine i) information on the store position of the delivery order and the delivery position of the delivery order, ii) the service region of the branches and the supply region of the branches, and iii) a type of a delivery order according to each of the wireless terminals based on a relationship of the terminal positions, and provide the delivery order and the determined type of the delivery order according to each of the wireless terminals to the wireless terminals, wherein:

when a terminal position of a wireless terminal of a specific rider among the riders does not belong to a supply region of a branch to which the specific rider belongs, a store position of the delivery order is within a certain distance from the terminal position, and a delivery position of the delivery order belongs to the supply region of the branch to which the specific rider belongs, determining the type of the delivery order for the wireless terminal of the specific rider to be a return order; and/or

when a terminal position of a wireless terminal of a specific rider among the riders does not belong to a supply region of a branch to which the specific rider belongs, the store position of the delivery order is within a certain distance from the terminal position, and a delivery position of the delivery order does not belong to the supply region of the branch to which the specific rider belongs but a distance from the delivery position to the service region of the branch to which the specific rider belongs is less than a distance from the terminal position to the service region to which the specific rider belongs, the type of the delivery order is determined to be a return order.

[Claim 13] The server of claim 12, wherein:

the service region is a region determined based on a store position of stores requesting the delivery orders to a branch, and

the supply region is determined based on an operation range of the rider to process delivery orders from the service region in the branch.

[Claim 14] The server of claim 12, wherein the determining the type of the delivery order comprises:

when a store position of the delivery order belongs to a service region of a branch to which a specific rider among the riders belongs, determining the type of the delivery order for a wireless terminal of the specific rider to be a service order.

[Claim 15] The server of claim 12 wherein the determining the type of the delivery order further comprises:

when a store position of the delivery order belongs to a service region of a branch to which a specific rider among the riders belongs, and a delivery position of the delivery order does not belong to a supply region of the branch to which the specific rider belongs, determining the type of the delivery order for a wireless terminal of the specific rider to be a long-distance order.

[Claim 16] The server of claim 12, wherein the determining the type of the delivery order further comprises:

when a store position of the delivery order does not belong to a service region of a branch to which a specific rider among the riders belongs, and the store position of the delivery order and the delivery position of the delivery order belong to a supply region of

the branch to which the specific rider belongs, determining the type of the delivery order for a wireless terminal of the specific rider to be a shared order.

[Claim 17] The server of claim 12, wherein the determining the type of the delivery order further comprises:

when a store position of a delivery order is within a certain distance from the terminal position of the wireless terminal of a specific rider among the riders, but the distance from the delivery position of the delivery order to the service region of a branch to which the specific rider belongs is greater than the distance from the terminal position of the wireless terminal of the specific rider to the service region of the branch to which the specific riders belongs, the delivery order is not provided to the specific rider but provided to another rider of another branch, among the riders.

[Claim 18] The server of claim 14, wherein the providing the delivery order and the determined type of the delivery order comprises:

when a terminal position of a wireless terminal of a specific rider among the riders belongs to a supply region to which the specific rider belongs, providing a delivery order of which the type of the delivery order is determined for the wireless terminal of the specific rider to be one of a service order, a long-distance order, and a shared order to the wireless terminal of the specific rider.

[Claim 19] The method of claim 14, wherein the providing the delivery order and the determined type of the delivery order further comprises:

when a terminal position of a wireless terminal of a specific rider among the riders does not belong to a supply region to which the specific rider belongs, providing a delivery order of which the type of the delivery order is determined for the wireless terminal of the specific rider to be either a service order or a return order to the wireless terminal of the specific rider.

[Claim 20] A wireless terminal configured to perform a method of providing a region-based delivery order, the wireless terminal comprising:

a processor, wherein the processor is configured to:

receive delivery orders comprising information on a store position and a delivery position from a server and display a type of each of the delivery orders, a store position of

each of the delivery orders, and a delivery position of each of the delivery orders on a display of the wireless terminal, and

the type of each of the delivery orders is determined by the server and is based on i) information on the store position of each of the delivery orders and the delivery position of each of the delivery orders, ii) information on a service region of a branch to which a rider belongs and a supply region of the branch, and iii) a relationship of a terminal position of the wireless terminal, wherein

when the terminal position does not belong to the supply region of the branch, a store position of a delivery order is within a certain distance from the terminal position, and a delivery position of the delivery order belongs to the supply region of the branch, the type of the delivery order is determined to be a return order; and/or

when the terminal position does not belong to the supply region of the branch, a store position of a delivery order is within a certain distance from the terminal position, and a delivery position of the delivery order does not belong to the supply region of the branch but a distance from the delivery position to the service region of the branch is less than a distance from the terminal position to the service region, the type of the delivery order is determined to be a return order.