

CLAIMS

1. An operation method of an electronic apparatus, comprising:
receiving a placement request regarding a target item in a zone;
upon the placement request, recognizing, based on information on the target item, a plurality of locations available for placement of the target item, wherein the information on the target item comprises the prime item-related information of the target item, and the prime item refers to a high priced item at a high risk of theft among items with a high order rate;
based on the information on the target item and information on the plurality of locations, recognizing at least one location suitable for placement of the target item among the plurality of locations; and
providing information on the at least one location.
2. The operation method of claim 1,
wherein the information on the target item further comprises one or more of the following: identification information, weight information, size information, shipment quantity information, and expiration date-related information,
wherein the information on the plurality of locations comprises one or more of the following: information on relative distances between the plurality of locations, size information of each location, address information of each location, type information of each location, stack information of each location, fill rate information of each location, and prime zone-related information of each location.
3. The operation method of claim 1, wherein the recognizing of the at least one location comprises recognizing a location that is positioned at a spot closest to a spot of a storage unit with the target item stored therein among the plurality of locations.
4. The operation method of claim 1,
wherein the recognizing of the plurality of locations comprises, based on information on all locations included in the zone, recognizing a plurality of locations satisfying a preset condition among all the locations,
wherein the preset condition is based on one or more of the following: type information of each location, stack information of each location, attribute information of a plurality of items

placed at each location, and information regarding whether information on each location is provided to another worker within a last predetermined period.

5. The operation method of claim 1, wherein the recognizing of the at least one location comprises recognizing the at least one location among the plurality of locations by considering a volume of a stowable space of each of the plurality of locations and a volume of the target item stored in a storage unit.

6. The operation method of claim 5, wherein the recognizing of the at least one location comprises:

obtaining, among the plurality of locations, a plurality of first locations, in each of which the volume of the stowable space is greater than a value calculated based on a total volume of the target item stored in the storage unit; and

recognizing a location having a smallest volume of the stowable space among the plurality of first locations.

7. The operation method of claim 5, wherein the recognizing of the at least one location comprises:

obtaining, among the plurality of locations, a plurality of second locations, in each of which the volume of the stowable space is greater than a value calculated based on a single volume of the target item stored in the storage unit; and

recognizing a location having a largest volume of the stowable space among the plurality of second locations.

8. The operation method of claim 1,
wherein the information on the target item comprises one or more of size information and shipment quantity information of the target item,

wherein the recognizing of the at least one location comprises recognizing the at least one location by considering one or more of the following: an area in which the target item is to be placed according to the size information of the target item and a height at which the target item is to be placed according to the shipment quantity information of the target item.

9. The operation method of claim 8,

wherein the information on the target item further comprises expiration date-related information,

wherein the recognizing of the at least one location comprises recognizing the at least one location by further considering whether one or more of the expiration date-related information and the prime item-related information of the target item matches information on items already placed at the plurality of locations.

10. A non-transitory computer-readable recording medium having recorded thereon a program, which, when executed by a computer, performs the operation method of any one of claims 1 to 9.

11. An electronic apparatus, comprising:

a memory configured to store an instruction; and

a processor configured to execute the instruction,

wherein the processor is further configured to:

upon receiving a placement request regarding a target item, recognizing, based on information on the target item, a plurality of locations available for placement of the target item, wherein the information on the target item comprises the prime item-related information of the target item, and the prime item refers to a high priced item at a high risk of theft among items with a high order rate;

based on the information on the target item and information on the plurality of locations, recognizing at least one location suitable for placement of the target item among the plurality of locations; and

providing information on the at least one location.

12. A terminal, comprising:

an input device;

an output device; and

a controller,

wherein the controller is configured to:

receive an input of a placement request regarding a target item through the input device;

upon the input of the placement request, recognize, based on information on the target item, a plurality of locations available for placement of the target item, wherein the information on the target item comprises the prime item-related information of the target item, and the prime item refers to a high priced item at a high risk of theft among items with a high order rate;

based on the information on the target item and information on the plurality of locations, recognize at least one location suitable for placement of the target item among the plurality of locations; and

output information on the at least one location through the output device.

13. The terminal of claim 12, wherein the controller is further configured to receive, through the input device, an input of identification information for a location corresponding to a spot where a storage unit with the target item stored therein is positioned.

14. The terminal of claim 12, wherein the controller is further configured to receive an input of a range for the plurality of locations through the input device.

15. The terminal of claim 13,
wherein the input of the identification information is an input of identification information for a location that does not satisfy a preset condition,

wherein the preset condition is based on one or more of the following: the type information of each location, stack information of each location, attribute information of a plurality of items arranged at each location, and information regarding whether information on each location is provided to another worker within a last predetermined period.