



Presentation to :

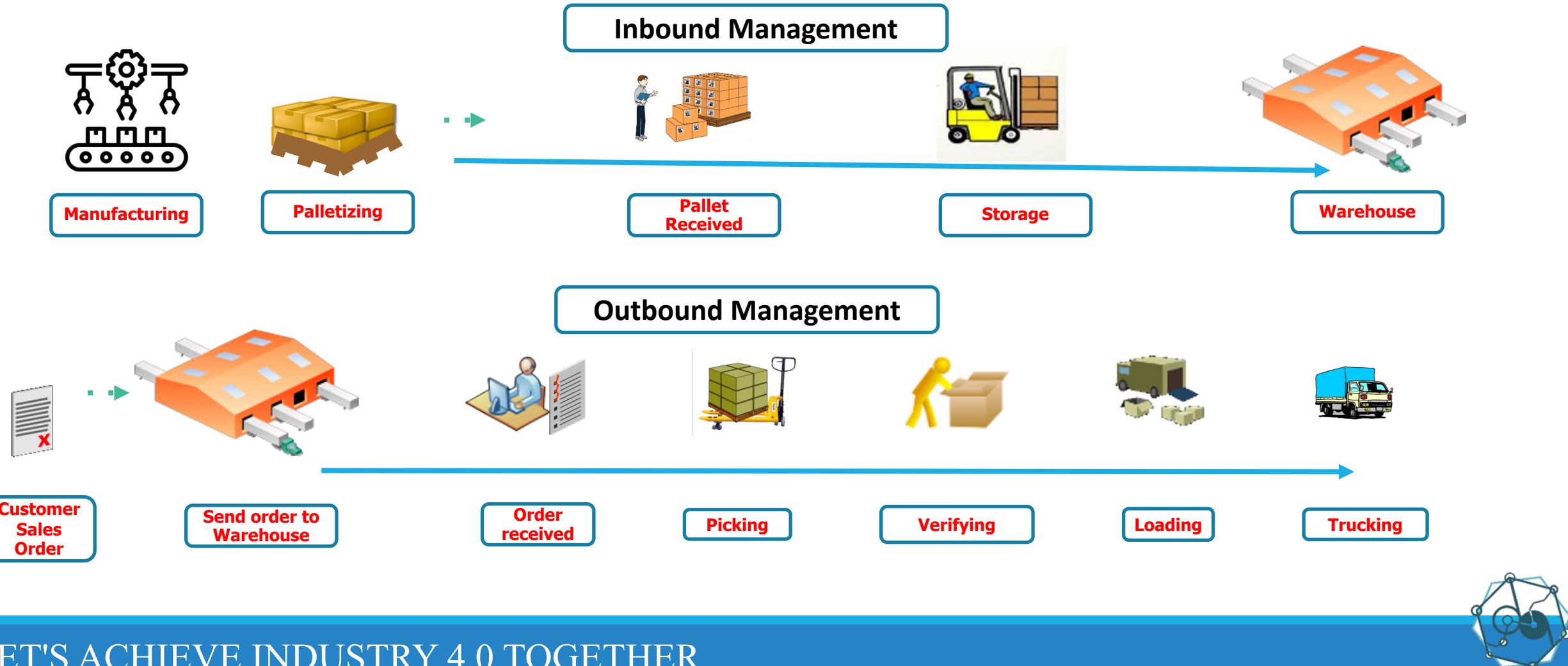
L&S Cosmetics &
Toiletries (M) Sdn Bhd.

Prepared by:
DQ IT Solution (M) Sdn Bhd
Date: 01 July 2024



L&S CURRENT WORK-FLOW

L&S COSMESTIC CURRENT WAREHOUSE WORKFLOW



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Proposed Inbound flow



Multilayer Warehouse Management

Warehouse

Plan the warehouses according to the different physical locations example: Warehouse 1、Warehouse 2、Warehouse 3 etc.

Rack

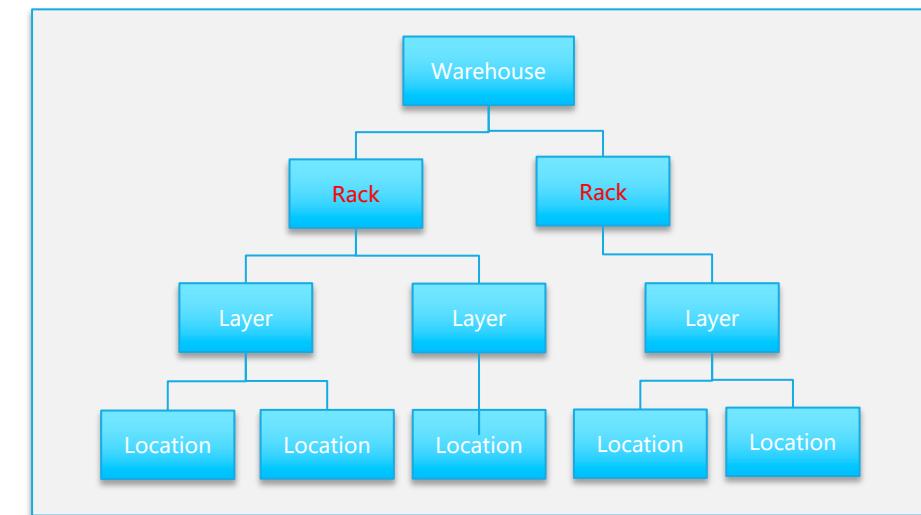
The division of racks of warehouse like Rack A, Rack B, Rack C

Layer

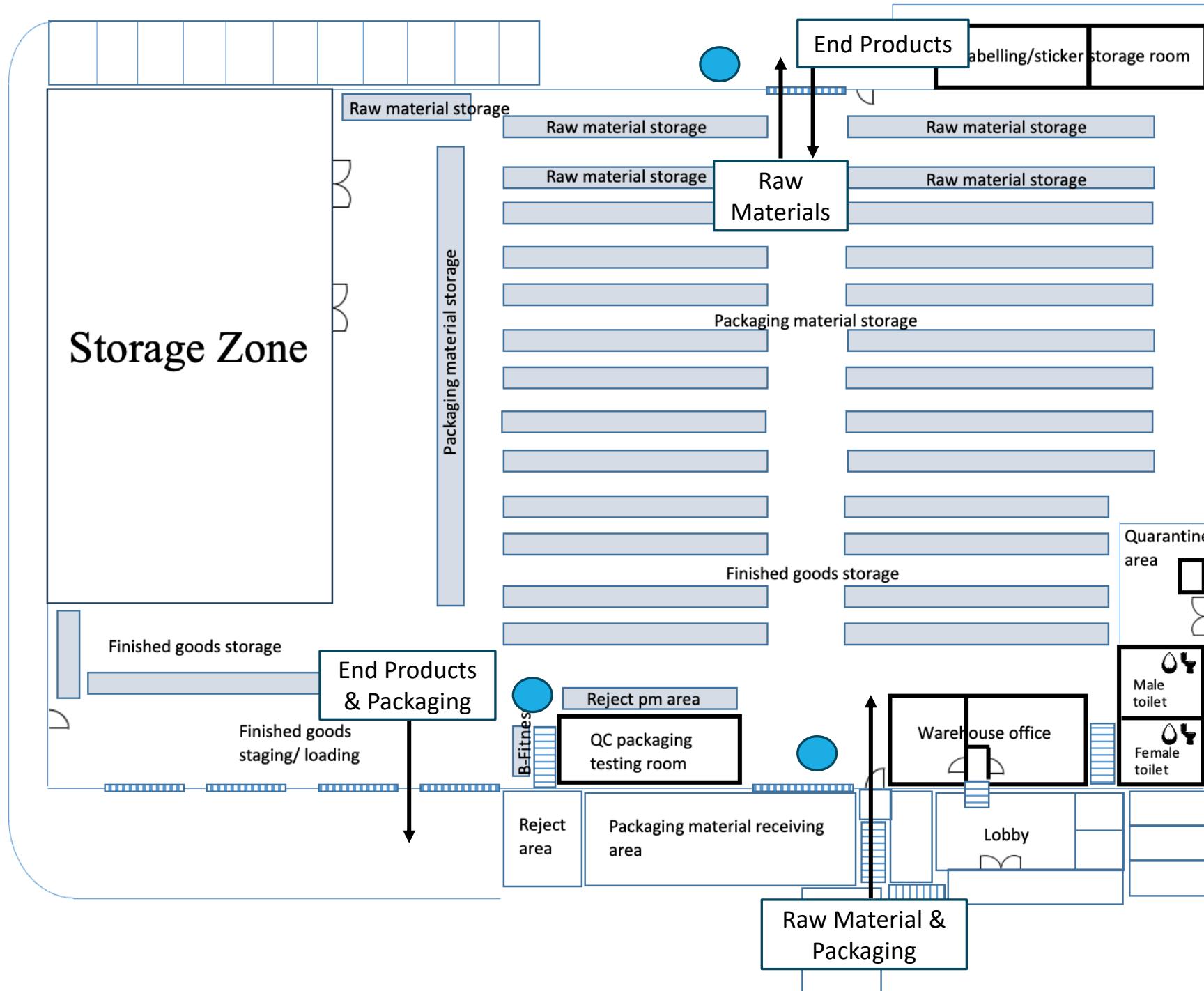
The division of layer in each rack like A1, A2 A3

Location

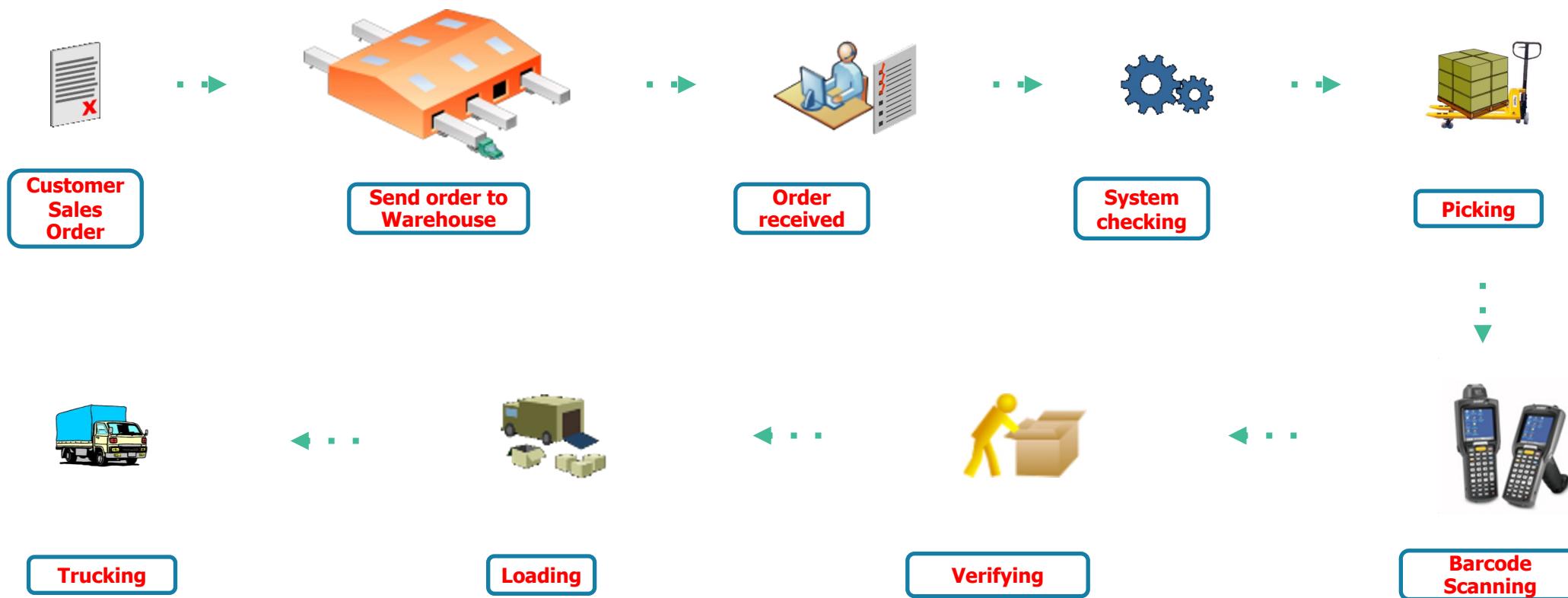
The location of the goods, the most important element in the warehouse location management



WMS: Station Setup

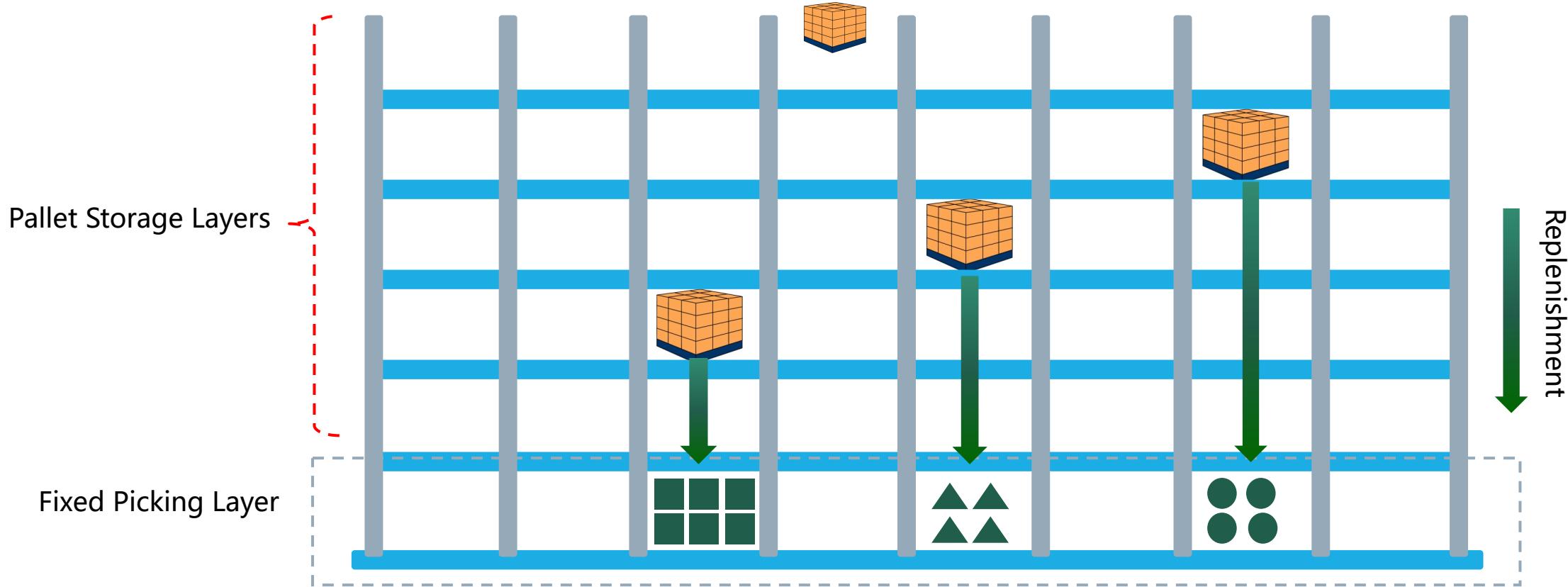


Proposed Outbound flow



Inventory Picking Strategy

Picking Bottleneck: The random placement of the goods when they are put on the shelf may cause the goods to be in the upper floors. Frequent unloading of these goods will then result in operation bottlenecks during picking



The warehouse is set up with a storage area and a picking area. The storage area is mainly used for replenishment and huge volume sales order outbound. The picking area is mainly for daily loose orders. The picking area should respond to the demand for order shipments. The storage area should deal with a large amount of inventory or large quantities of shipments. When the inventory of the picking location passes the lower limit, the storage locations should supplement. This can improve the picking efficiency and reduce the error rates



Outbound Picking Strategy

Turnover Strategy

- ◆ According to the Inventory Sequencing: FIFO
- ◆ Specific batch rule, accurately batch outbound

Combined Picking Strategy

- ◆ Split by Order
- ◆ Split by SKU temp

Allocation Strategy

- ◆ Define priority outbound location
- ◆ Clearance as priority (Smallest inventory qty)
- ◆ Excess inventory to be filled.

The screenshot displays two separate configuration screens side-by-side, both titled 'Rule'.

Inventory Turnover Rule (Left Screen):

- Basic Information:** Rule Code: STANDARD, Rule Name: STANDARD, Turnover Type: Inventory Turnover First, Lot Attribute: STANDARD.
- Rule Detail:** Shows a table with one row: Line No: 01.

Allocation Rule (Right Screen):

- Basic Information:** Rule Code: STANDARD, Rule Name: STANDARD.
- Rule Detail:** Shows a table with three rows:

Line No	Package Unit	LOC_Usage	Fixed PK Loc of SKU	Dynamic PK Loc of SKU	Clear Location	Other
01	Pallet	-	-	-	YES	<input checked="" type="checkbox"/> <input type="checkbox"/>
02	Carton	-	-	-	YES	<input checked="" type="checkbox"/> <input type="checkbox"/>
03	Unit	-	-	-	YES	<input checked="" type="checkbox"/> <input type="checkbox"/>



Inventory Stock Take Management

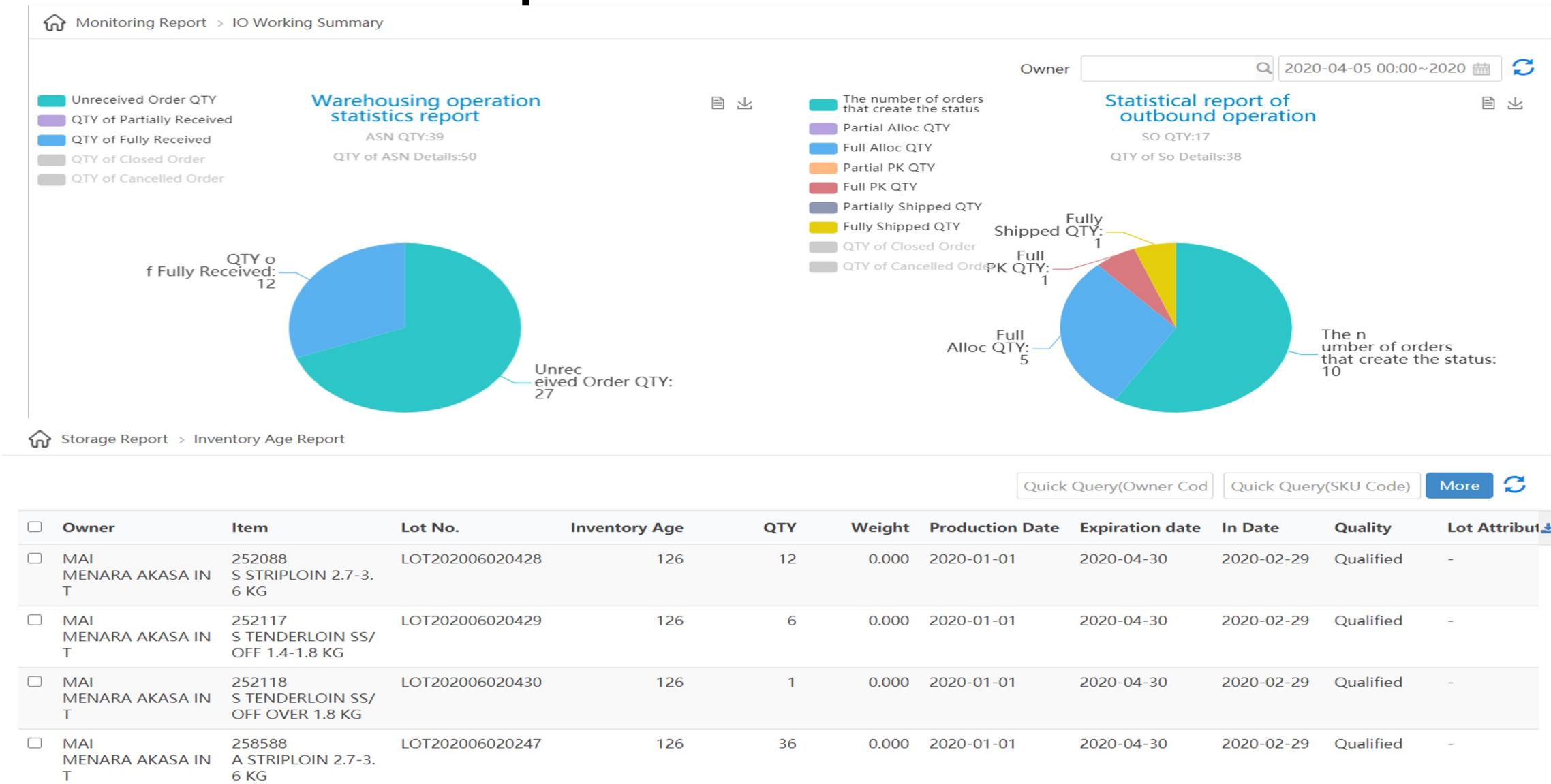
- Supports the following methods:
Sampling, Complete, Dynamic and Cycle
- Supports Blind and Open stock taking;
- Supports RF stock taking;

Main Information			
Stock Take No.	Status	Type	Range*
<input type="text"/>	<input type="button" value="Please select"/>	<input type="button" value="General Stock Take?"/>	<input type="button" value="Full Count"/>
Static/Dynamic*	With/Without No.*	Supervisor	Previous Stock Take No.
<input type="button" value="Static Count"/>	<input type="button" value="Blind Count"/>	<input type="text"/>	<input type="text"/>

Stock-taking Condition			
Owner	Item	Lot No.	LPN
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Serial No. Mgt.	Location Type*	Location From	Location To
<input type="button" value="Please select"/>	<input type="button" value="Storage Location"/>	<input type="text"/>	<input type="text"/>
Area	Zone	Moved INV Count Time From	Moved INV Count Time To
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sampling Ratio	Sampling QTY		
<input type="text"/>	<input type="text"/>		



Warehouse Reports



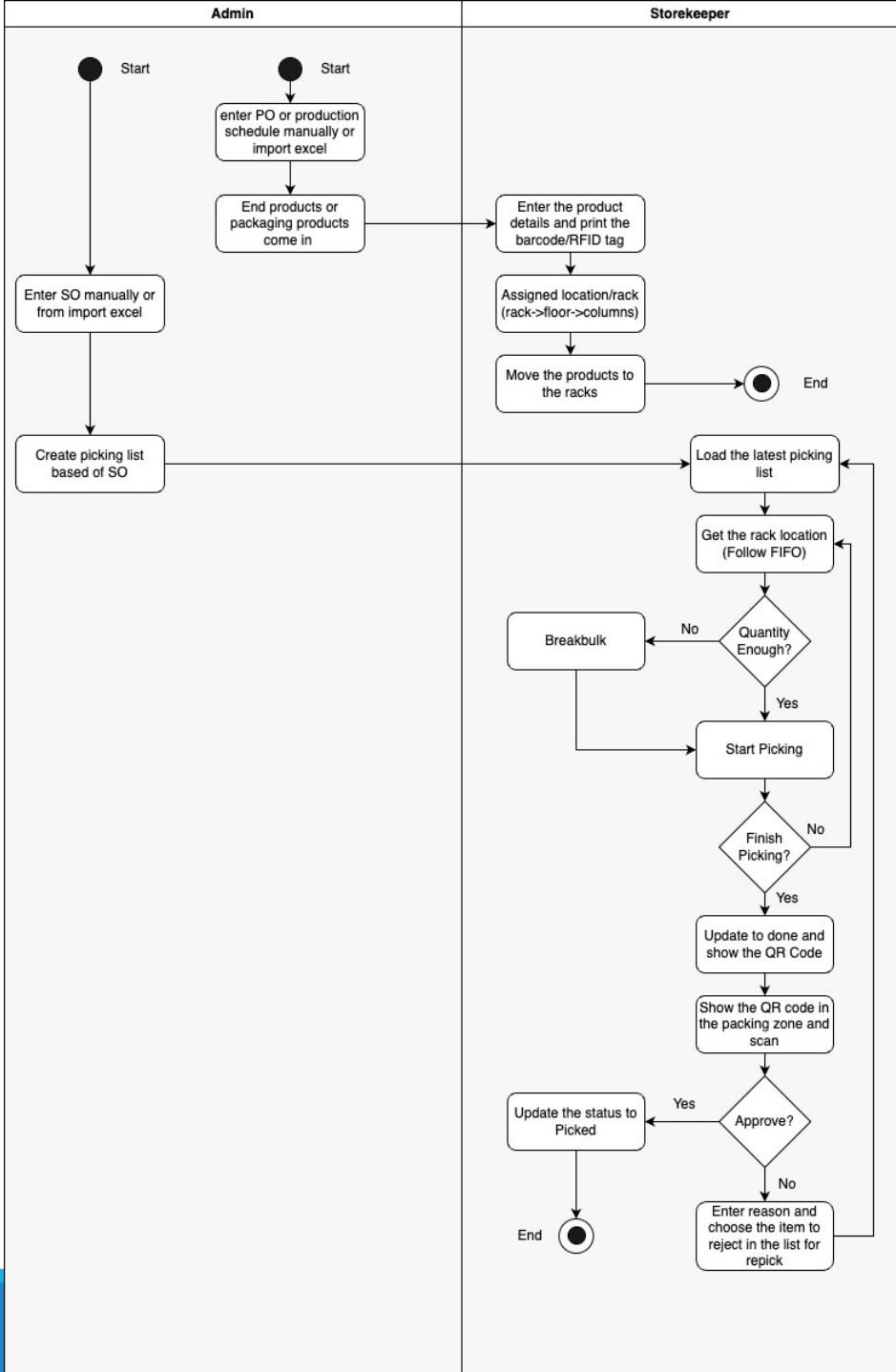
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WMS Solutions:

Barcode Solutions

Our Solution

- Create a web application to allow user to access anywhere, anytime
- Integrate with ERP system to allow user to import the purchase order/production schedule and sales order
- Using barcode system to store the information of the product (F.I.: batch no, number of cartons, date of produced and so on)
- Use mobile apps or barcode scanner to stock out, break bulk and stock transfer



Receive Barcode And Storage Strategy

Receive Barcode Management

Barcode Type

SKU Barcode



Package Barcode



Pallet Barcode



SKU barcode will normally be provided by the supplier. If the supplier does not provide, warehouse can according to the management requirements to print or not.

It is usually used for inbound order and can be used for scanning during outbound process.

The pallet barcode is usually pasted onto the pallets. At the inbound process, the goods are linked with the pallets. During storing and picking, this barcode can be used to query and find the corresponding pallet the goods are placed in.

Storing Strategy

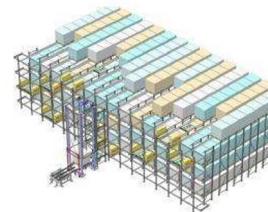
- ◆ Loose and Pallet strategies



Loose Goods



Pallet Goods



Pallet Zone



Loose Picking Zone



WMS: Stock Inbound

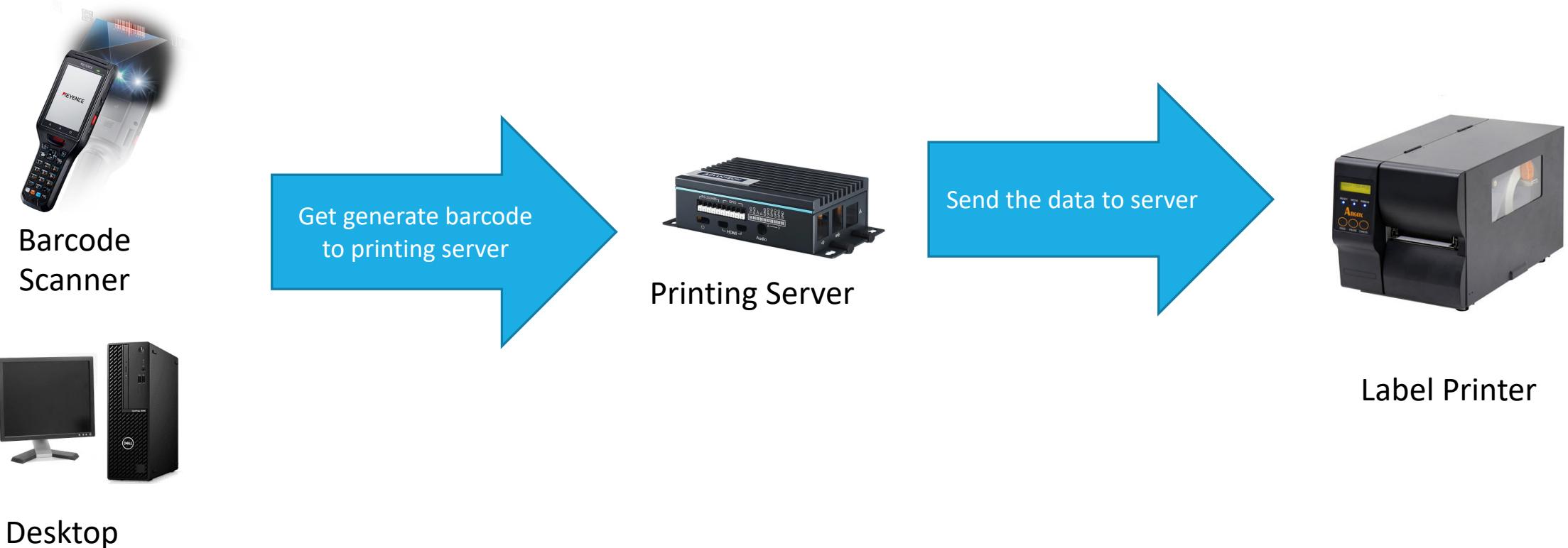
The collage illustrates various screens of a WMS application for managing stock inbound:

- Inbound List Screen:** Shows a list of purchase orders (PO) with details like PO number, supplier, and status. Buttons for "ARRIVE" and "VIEW" are present for each item.
- Inbound Details Screen:** Displays specific details for Purchase Order PO-0321/010 from M. I. MEDICAL SUPPLIES SDN. BHD., including arrival and viewing options.
- Purchase Order / End Product Screen:** A form for managing inbound products, showing a dropdown for "Inbound End Product/PO" and a "Goods Arrive" button.
- Product Detail Screen:** Shows details for a product entry labeled "SS-SB-2" (Silk Black with Needle, Size : 2/0 (24's/box)), including UOM (BOX) and location fields, along with "SCAN" and "VIEW" buttons.
- Action Buttons Screen:** A footer section with "Finish" and "Revert" buttons, and standard navigation icons (back, forward, home).

Stock In Module: Key Functions

- Plan for end products, packaging products & raw materials to stock in
- Print barcode and other labels for system to use
- Assign rack and scan rack to in-stock
- Monitor the stock count in real time.

Stock in barcode printing



Stock Out: Key Functions

Product Execution

The WMS System will display the real time picking data of an orders and pickers who are picking the order.

- ▶ Get the sales order information and suggest the location to pick
- ▶ Scan the barcode and enter the carton that pick
- ▶ Follow “First In First Out” rules
- ▶ Breakbulk if not enough



Break into cartons



Picked follow the list

Picking list					
Customer:	AS sport	Creation date:	Oct 11, 2022		
Shipping order:	SH0000010	Shipping date:	Oct 11, 2022		
Sales order:	BA0000030				
	0009WAT	Description	Qty	Bin location	Barcode
	0009WAT	Waterproofing agent Nikwax	3	A11	
	BA005	Guidetti Stick Top/Forest	7	A20	
	CLB001	Climbing rope Volta 9.2 mm	4	A69	
	Pet8909	Lamp Petzel Swift	7	B02	
	Pet09098	Lamp Petzel Tikka	9	B03	
	Xmax	Mat Thermarest neopair aether max	3	B09	
	TT055	Toaks titanium 0.55L toaks	10	B13	
	Ultra	Mat Ultralight Orange sea to summit	7	C02	
Total units: 50					

WMS: Stock Outbound

The image displays four screenshots of a WMS mobile application interface, likely for a拣选 (Picking) operation. The top-left screenshot shows a picking screen for 'CASH SALES' with item details and camera, NIL, and location buttons. The top-right screenshot shows a list of picking tasks with columns for SO Number, Name, Status, Type, Picker, and Picked On. The bottom-left screenshot shows a 'Create Picking SO' dialog. The bottom-right screenshot shows a 'Sales Order' screen with multiple picking tasks listed.

CASH SALES
DOCNO: I-0124/206259

NDL-TRM-21G1½
TERUMO AGANI Disposable Needle 21G X 1½"
Available Location: 1
Unit: BOX
Quantity to pick: 1
Item picked: 0

CAMERA NIL LOCATION

DPL-SYR3
PRIMES Disposable Syringe, 3ml (Luer Slip)
Available Location: 1
Unit: PC
Quantity to pick: 3
Item picked: 0

CAMERA NIL Complete Print QR Revert

Sales Order

READY FOR PICKING PICKING

CASH SALES
I-0124/206259
February 17, 2024 12:03 PM
ready for picking

PICK VIEW

CYK NEW CARE PHARMACY
I-0124/206261
February 17, 2024 12:03 PM
ready for picking

PICK VIEW

MERIT PHARMACY SDN. BHD.
I-0124/206263
February 17, 2024 12:03 PM
ready for picking

PICK VIEW

KLINIK PRIMER AS SYIFA
I-0124/206266
February 17, 2024 12:03 PM

PICK VIEW

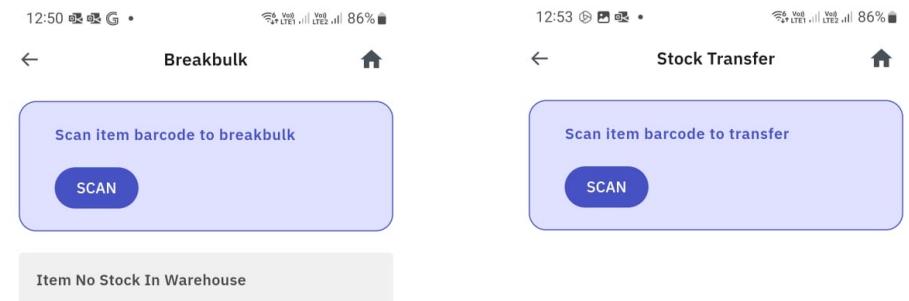
Create Picking SO

Picking SO
Select...
Submit

WMS: Break Bulk & Stock Relocation

Breakbulk and Stock Transfer

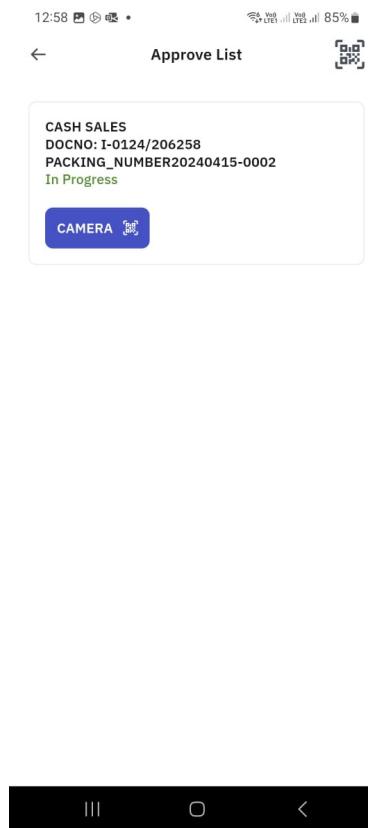
- This feature is used to breakbulk of a product from pallets to cartons
- The same concept is used for stock transfer from 1 location to another
- This module can help us know which location to picking and empty location to store the product when stock in



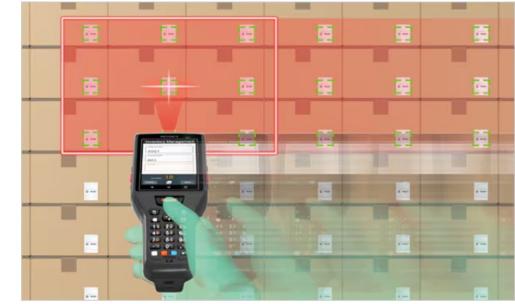
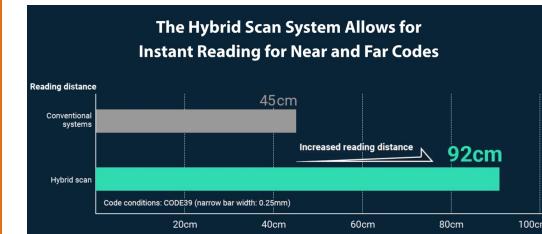
WMS: Approved Delivery

Approved Delivery

- This feature is used to cross-check if the items being picked is it follow the request like correct product, followed FIFO and so on
- Supervisor need to approve first before can complete the picking list and start loading
- Supervisor can reject with reason if it is not correct and asked for re-picked. All this will be logged.



Proposed Hardwares



Keyence Handheld Mobile Computer BT-A500 Series

Other Hardwares



Industrial Label Printer
(Argox)



Stations
(Desktop)



Printing Server
(Mini Computer)

Other Hardwares



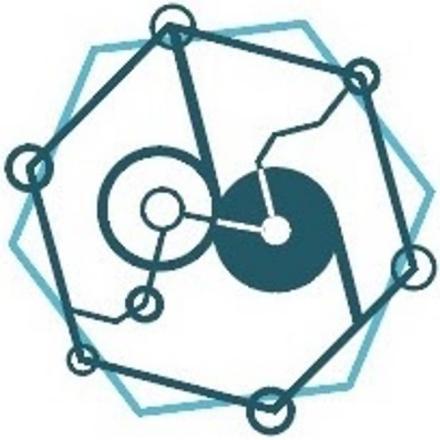
Industrial Label Printer
(Argox)



Stations
(Desktop)



Printing Server
(Mini Computer)



Thank you very much.

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