

VERSION 1.0
24 DECEMBER 2019

KENNYKEE TECHNOLOGIES
Software, Web and Mobile Systems Solutions

sales@kennykee.com.sg
(Business Registration No: 53225076A)

Warehouse Management System

Automation. Innovation. Productivity.



WAREHOUSE MANAGEMENT SYSTEM

AUTOMATION. INNOVATION. PRODUCTIVITY.

DEVELOPED BY: KENNYKEE TECHNOLOGIES (53225076A)
SALES@KENNYKEE.COM.SG
10 ANSON ROAD, #26-04 INTERNATIONAL PLAZA

WAREHOUSE MANAGEMENT SYSTEM

KennyKee Technologies's Warehouse Management System (WMS) offers comprehensive information flow control and material tracking functionalities for warehouse operation in various types of industries.

SYSTEM OVERVIEW

- ✚ WMS covers extensive warehouse capabilities ranging from goods picking, packing, receiving, transferring, stock counting, printing, report generation, integration with portable scanner hardware and 3rd-party system to security feature such as audit trail.
- ✚ On top of that, we emphasized heavily on the system security and access control. Our access matrix and audit trail features give you total fine-grained control and monitoring capabilities.
- ✚ The architecture designs are strongly customer driven and built for productivity in mind. We understand that every customer is unique. That is why we perform extensive requirement analysis with our customers and ensure every single function delivered fits their operation precisely.

PRODUCTIVITY AND AUTOMATION

- ✚ With the combination of hardware scanner and system-controlled process flow, WMS aims to improve operation productivity, information flow, communication, automate repetitive and manual tasks. It also intended to reduce the reliance on paper printout, human error, communication overhead and item mispicking.

DESIGNED FOR INDUSTRIES

- Hardware, Tools, Parts and Machinery Equipment Warehouse.
- Hospitals, Clinics, Pharmaceuticals Stores, and Life Science Research Laboratory.
- Maritime Industry Parts Distribution Warehouse.
- Automotive and Electronics Industries Warehouse.
- Manufacturing, Retails, and Hospitality.
- Transportation, Logistics And Goods Distribution Centers.

FEATURES

1) GOODS ISSUE

Allow user to create issue request and perform picking using Android handheld terminal. Status tracking funnel ensures all tasks are being completed. Print picklist directly to network printer in issuer store. Create KIV request for partially fulfilled request.

Status	Date	ID	Issuer Store	Topup Type	Requester	Approver	Remarks
Pending	Request Date: [Thru Web] 20 November 2019 11:58 AM	GI1901413	Despatch Point	Adhoc	SuperAdmin	-	View Topup Picklist
Pending	Request Date: [Thru Web] 20 November 2019 11:57 AM	GI1901412	Assembly Storage	Adhoc	SuperAdmin	-	View Topup Picklist
Pending	Request Date: [Thru Web] 20 November 2019	GI1901411	Central Warehouse	Adhoc	SuperAdmin	-	View Topup Picklist

Figure 1: Goods issue page.

2) GOODS RECEIPT

Synchronize purchase order with SAP® or upload purchase order list using file. Allow user to perform goods receipt using Android handheld terminal. Record will be posted to SAP® or any external system upon receiving goods.

Status	Date	PO Number	Vendor
Pending	Document Date: 21 November 2019 1:55 AM	PO1144229	Media Vendor SG HD-14
Pending	Document Date: 21 November 2019 1:55 AM	PO4322990	Hardware Vendor SG HD-12
Pending	Document Date: 21 November 2019 1:55 AM	PO6720090	Software Vendor SG HD-13

Figure 2: Goods receipt page.

3) STOCK TRANSFER

Allow user to request for stock transfer between storage locations, perform picking using Android handheld terminal and tracking request status.

Status	Status	Date	ID	From	Destination	User	Remarks
	Pending	Request Date: [Thru Web] 21 November 2019 2:18 AM	ST1900126	SG00 - Central Warehouse	SG00 - Despatch Point	Requester: - SuperAdmin	View Request Picklist

Figure 3: Stock transfer page.

4) STOCK COUNT

Allow user to create stock count or cycle count session. User performs counting and recording using Android handheld terminal. Upon submission of count record, stock count module automates discrepancy checking and show result in real-time. In addition, it allows user to generate PDF report and stock count sheet with a single click.

Item No	Description	UOM	Unit Price \$	Sys Qty	Sys \$	Count Qty	Count \$	Var Qty	Var \$	Diff %	No of Count
0000-33-05X-7	SILICON CARBIDE WATERPROOF SANDPAPER	EA	\$100.00	20	\$2,000.00	20	\$2,000.00	0	\$0.00	0.00%	1
0010-68-045-H	ALUMINIUM OXIDE CLOTH SHEET	EA	\$110.00	30	\$3,300.00	No Count Record					0

Figure 4: Stock count page.

5) MASTER LIST

Keeps material master list and its information such as location, quantity, UOM, barcode, description and any additional fields required by the user. Allow user to sync master list with SAP®, importing by excel and manual entry. Master list provides material information to other modules in WMS.

No	Material Code	Description	Storage Location	UOM
1	0010-68-045-H	ALUMINIUM OXIDE CLOTH SHEET	Central Warehouse > 01/A5-02 > 100	EA
2	0010-68-048-L	NIKKO DIAMOND NEEDLE FILE	Central Warehouse > 01/A5-05 > 100	EA
3	0010-68-047-L	NIKKO SINGLE POINT DIAMOND DRESSER	Central Warehouse > 01/A5-04 > 29	EA
4	0010-68-046-H	RUBY ALUMINIUM OXIDE GRINDING WHEELS	Central Warehouse > 01/A5-03 > 20	EA
5	0000-33-05X-7	SILICON CARBIDE WATERPROOF SANDPAPER	Central Warehouse > 01/A5-01 > 100	EA

Figure 5: Material master list page.

6) ANDROID MOBILE AND TABLET APPLICATION

Allow user to perform material picking, goods issue request, receiving goods, and stock counting with Windows tablet and Android handheld scanner.

7) USER AND ACCESS CONTROL

Fine grained access matrix to control read, add, update and delete operation for every individual function, user, role, plant and storage location in **WMS**.

No	Module	Function	Apply To	Edit Permission
1	Attachment	Function: General » Upload Attachment Grant permission to upload files for module cost center, bom, and master list. This permission is required if you are granting user with functions that require files upload.	☑ All Access	Edit Permission
2	Master List	Function: Master List » Material (Basic Access) Grant basic access permission to view materials for selected storage locations. This basic access permission is required for user to view and update materials for selected storage locations.	☑ All Access	Edit Permission
3	Master List	Function: Master List » View Material By Storage Location Grant read access permission to view materials for selected storage locations. Material (Basic Access) access permission is required to enable this function.	☑ SG00 - Central Warehouse	Edit Permission
4	Master List	Function: Master List » Update Material By Storage Location Grant write access permission to update materials for selected storage locations. Material (Basic Access) access permission is required to enable this function.	☑ SG00 - Central Warehouse	Edit Permission
5	Master List	Function: Master List » Bill Of Material (Basic Access) Grant basic access permission to view BOM page. This basic access permission is required for user to view, add, update and delete BOM for selected cost centers.	☑ All Access	Edit Permission
6	Master List	Function: Master List » View Bill Of Material By Cost Center Grant read access permission to view BOM for selected cost centers. Bill Of Material (Basic Access) access permission is required to enable this function.	☑ All Access	Edit Permission
7	Master List	Function: Master List » Update Bill Of Material By Cost Center Grant write access permission to add, update and delete BOM for selected cost centers. Bill Of	☑ All Access	Edit Permission

Figure 6: User and access control page.

8) AUDIT TRAIL

Capture every transaction done by the users with detailed information. Audit trail function allows administrator to trace certain transaction easily with complete filter options. In addition, administrator will be able to export transaction list to excel file for yearly auditing purpose.

WMS Management Panel Master List Stock Count Goods Issue Goods Receipt Stock Transfer Admin Q Refresh Page Logout Logged in as SuperAdmin

User Role Notification Configuration LDAP Printer Audit Trail

Short URL -- Select -- Full URL Full URL Type -- Select -- Request Method -- Select -- Area -- Select -- Request ID Request ID Status -- Select -- Username -- Select -- Person Name -- Select -- IP Address IP Address

Sort By DateTimeCreated x Sort Order Descending x

Apply Filter Clear Download Excel

Showing 1 » 76 OF 76

Date Time	Module	Operation	Status	Description	User	IP Address
20-Nov-2019 1:12:38 PM	[Web] Master List	Add Cost Center	Success	- Success: New cost center added	admin SuperAdmin	1
20-Nov-2019 1:12:14 PM	[Web] Master List	Update Cost Center	Success	- Success: Cost center updated	admin SuperAdmin	1
20-Nov-2019 1:10:30 PM	[Web] Master List	Add Cost Center	Success	- Success: New cost center added	admin SuperAdmin	1
20-Nov-2019 1:10:08 PM	[Web] Master List	Add Cost Center	Success	- Success: New cost center added	admin SuperAdmin	1
20-Nov-2019	[Web] Master List	Update Cost Center	Success	- Success: Cost center updated	admin	1

Figure 7: Audit trail page.

9) VENDOR BARCODE

Link material barcode number to vendors' own product barcode. You will be able to search material or scan received goods using vendor barcode.

WMS Management Panel Master List Stock Count Goods Issue Goods Receipt Stock Transfer Admin Q Refresh Page Logout Logged in as SuperAdmin

Item Master List BOM Vendor Barcode Storage Location Cost Center

Vendor Barcode

Using Vendor Barcode

Vendor barcode allows user to search for material code using supplier barcode. One material can have multiple vendor barcode but one supplier barcodes can only refer to single material.

+ Add Vendor Barcode

Showing 1 » 5 OF 5

No	Vendor Barcode	Material
1	074634000071	0010-68-056-L - FILTER IDSH ASMI 300
2	074634020000	0010-68-058-L - GRINDING DISC F27
3	074634043542	0010-68-050-L - ABRASIVE CLOTH BELT 75MM X 533MM
4	074634053543	0000-33-05X-7 - SILICON CARBIDE WATERPROOF SANDPAPER
5	074634055309	0010-68-055-L - MATING RING 1.87IN SIC

Figure 8: Vendor barcode page.

10) NETWORK PRINTER AND DESKTOP LABEL PRINTER

Link network printers in your warehouse. With connected printers, you will be able to print picklist located in the issuer store directly. In addition, this module allows desktop label printer to be shared within local network.

Printer

Using Printer

Link printer attached to the server to specified storage location or cost center. If you cannot see the required printer in the printer selection list, please contact your system administrator to add the network printer into the server.

+ Add Printer

Showing 1 » 4 OF 4

No	Printer Name	Printer IP	Location Type	Location Name	
1	Fuji Xerox DocuPrint - Assembly	10.100.188.10	Storage Location	Assembly Storage	Update Delete
2	Canon ImageCLASS - Central	10.100.188.11	Storage Location	Central Warehouse	Update Delete
3	Brother MFC - Despatch	10.100.188.12	Storage Location	Despatch Point	Update Delete
4	HP Color LaserJet - Retail	10.100.188.13	Storage Location	Retail Distribution Plant	Update Delete

Figure 9: Network and label printer page.

11) ACTIVE DIRECTORY

Apart from **WMS** built-in user login authentication, administrator can switch selected users to authenticate with Microsoft Active Directory.

LDAP

Using Active Directory

Create active directory connection settings here. Use it to attach the connection to users in user module.

+ Add LDAP Connection

Showing 1 » 1 OF 1

No	Domain Name	Base Connection String	
1	AD-AD-EXAMPLE.COM.SG	LDAP://AD-AD-EXAMPLE.COM.SG:389/DC=shs,DC=com,DC=sg	Update Delete

Figure 10: Active directory integration page.

12) OMNI SEARCH

Omni search is an all-in-one search functionality that provides shortcut for users to search data system wide.

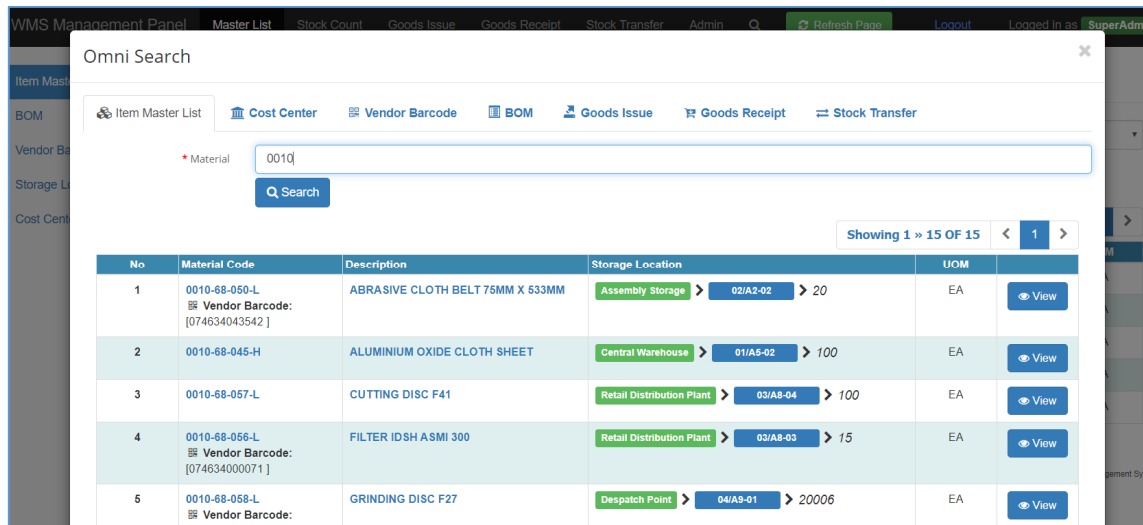


Figure 11: Omni search all-in-one functionality.

13) EXTERNAL SYSTEM INTEGRATION

WMS is able to integrate with third-party application such as SAP®, SFTP, third party logistics system, and external vendor depending on customers' existing operation requirements.

14) JOB SCHEDULER

Job scheduler synchronizes and posts data to and from external system periodically. It also checks for inactive user account.

HARDWARE DEVICES

WMS supports barcode, QR code scanning, RFID scanning and label printing functionalities for both Zebra and Honeywell devices. Our server, desktop client and android application are especially developed to fully utilize the capabilities of these devices. These include Zebra ZT510, TC51, ZD500, TC25, Honeywell RP series, CT60, CN80, PM42 and many more.



Figure 12: Barcode scanner, QR code scanner and label printer

AWS CLOUD HOSTING

WMS is cloud ready. The core components include web, database, web API, LDAP, and file storage can run in AWS EC2 Windows or Linux. We help our customers to deploy application in customers owned cloud servers. We also offer cost effective SAAS subscription model where customers can access and use the application hosted in our AWS cloud server. Rest assured that your own application instance runs in an isolated container and your instance data is kept secured.

LONG TERM SUPPORT

We understand our customers' needs for continuous support and the needs to improve with time. That is why being adaptive to new technologies and readiness for future improvement are our core business principle. We give assurance to our customers that we will provide full support and maintenance to all of our products and solutions delivered.

CONTACT US

Contact us for a live demo now!

Email: sales@kennykee.com.sg

Visit www.kennykee.com.sg for more info.

Opening Hours: Monday-Friday 9am-6pm.