

FUNCTIONAL AND TECHNICAL SPECIFICATION DOCUMENT

EWARENAVI CHECK-IN STATION WEB APPLICATION

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DOCUMENT HISTORY

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12/10/21	1	Initial Release	Chong Kah Hoe
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APPROVALS

Name	Title	Signature	Date
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1. Introduction

Functional Specification Document ("FSD") is to document the customized functional requirements and specified design to tailor suit Hartalega Sdn Bhd ("HSB") business requirements.

1.1 Purpose of the document

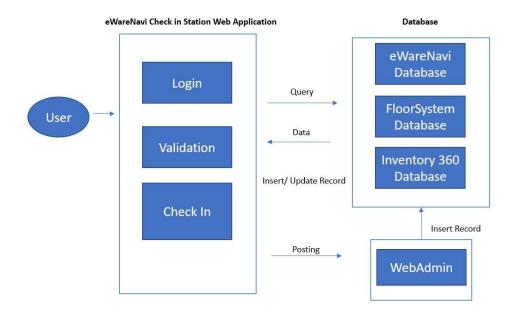
The Functional Specification Document is a document that provides detailed information on *how* the system solution will function and the requested behavior. This document is created based on the high-level requirements identified in the Business Requirements Document and provides traceability on the functional specifications back to the business requirements. Included in this document will be the detailed functional requirements including process flows, diagrams, and mock ups.

1.2 Project Objective

 Create a web application to Check-In for eWareNavi/ Inventory 360 and integration to Microsoft D365 based on Make-To-Order (MTO) or Make-To-Stock (MTS).

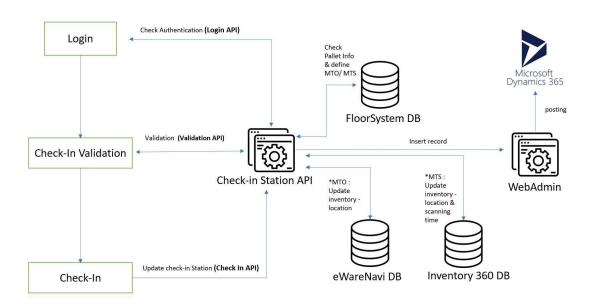
2. System Overview

2.1 Architectural Diagram



2.2 Data Flow Diagram

Proposed Data Flow diagram ("to-be")



3. Functional Specifications

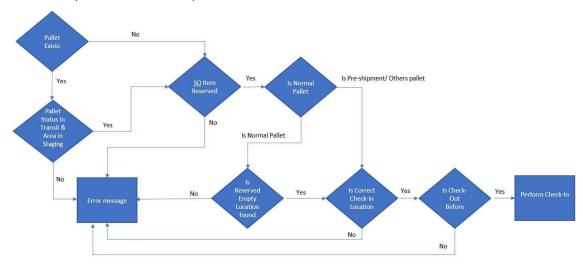
3.1 Login

1. Using same username and password at eWareNavi to login system.

3.2 Check-in Validation

- 1. Retrieve Pallet information from Floor System and Inventory 360 Database
- 2. Based on the pallet information to determine whether is MTO or MTS
 - a. If Pallet ID found within the floor system (EWN_CompletedPallet), the pallet is MTO
 - b. If Pallet ID found within the inventory 360 (tblStockMaster), the pallet is MTS

3. If MTO (eWareNavi Database)



- 4. If MTS (inventory 360)
 - i) Check-in warehouse validation validate correct check-in warehouse

3.3 Check-In

- 1. Posting to WebAdmin
- 2. If MTO (eWareNavi Database)
 - i) Update eWareNavi inventory common location
- 3. If MTS (Inventory 360 Database)
 - i) Update Common location
 - ii) Update Scanning time

4. Technical Specifications

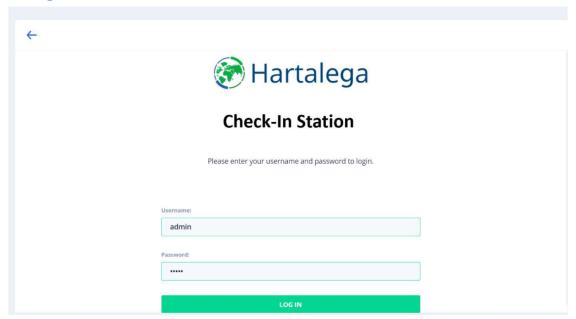
Module	Function	Database	Table/ Store Procedure / Query

1.	Login	Login authentication	eWareNavi	COM_LOGINUSER	
2.	Check-in	Retrieve Pallet	FloorSystem	usp_EWN_GetPalletData	
	Validation	information	Inventory360	tblStockMaster	
				MTO	
		Pallet existing	eWareNavi	select * from dnstock where pallet_no =	
		validation		:palletNo	
		Pallet status	eWareNavi	select * from dnstock where warehouse_code =	
		validation		:warehouseCode and area_no = :areaNo and	
				pallet_no = :palletNo"	
		SO item	eWareNavi	select * from dnworkinfo where job_type = '02'	
		reserved		and receive_ticket_no = :soNo and item_code =	
		validation		:itemCode and warehouse_code <>	
				:warehouseCode order by last_update_date	
				desc	
		Pallet Type Validation	FloorSystem	usp_EWN_GetPalletData	
		Check-In	eWareNavi	select * from dnworkinfo where	
		Location		warehouse_code <> :warehouseCode and	
		(Warehouse)		job_type = '02' and receive_ticket_no = :soNo	
		reserved		and item_code = :itemCode and status_flag = '0'	
		validation		order by receive_line_no	
		Check-In	eWareNavi	select * from dnworkinfo where job_type = '02'	
		Location		and receive_ticket_no = '" + inSO + "' and item_code = '" + inItemCode + "' order by	
		(Warehouse) validation		last_update_date desc	
		Check-out	eWareNavi	select * from dnstock where pallet no =	
		validation	CVValcivavi	:palletNo and area_no in ('STAG')	
		vandation		MTS	
		Check-In	Inventory360	sp_GetPalletDetails_ByPalletID_PalletComplete	
		Warehouse	linventor your	sp_dett unets etuns_sy, unetss_, unetssimplete	
		validation			
			I		
2	Chack In			NATO	
3.	Check-In	Undate	eWareNavi	<pre>MTO update dnstock set warehouse_code =</pre>	
		Update eWareNavi	EVVALENAVI	:warehouseCode, area no = :areaNo where	
		inventory		pallet_no = :palletNo	
		Posting to	TBC	TBC	
		WebAdmin	TBC	TBC	
		WebAdiiiii		MTS	
		Update	Inventory360	sp_tblStockTransaction_Insert_Carton;	
		Common		sp_tblBinLocation Update Status;	
		location		sp_tblBinLocationDetails_Insert;	
				sp_tblStockMaster_Update_NowLocationStatus;	
				sp GetPalletDetails ByPalletID PalletComplete;	
				sp_tblStockCartonDetails_UpdateStatus;	
				UPDATE tblStockDetails SET Status=@sts	
				WHERE StockID=@sid AND Del=@del	
				-	

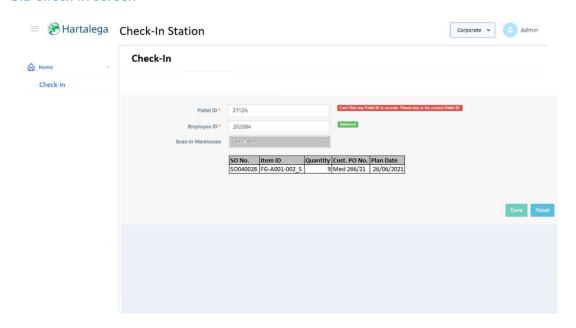
Update) tblStockMaster
Scanni	ng time	
Posting	g to TBC	TBC
WebA	dmin	

5. User Interface Design

5.1 Login Screen



5.2 Check-In Screen



^{**} If Pallet ID is MTO, Scan In Warehouse drop-down listing will become read-only and default choose the Warehouse attached with login PC-Name/ IP address

5.3 Exception Message

No	Pallet Type	Scenario	Exception Message
1.	MTO/ MTS	Invalid Pallet No	Can't find any Pallet ID in records. Please key in the
			correct Pallet ID.
2.	MTO	Pallet ID found but not	
		Status not Transit and	Duplicate pallet no. found in inventory.
		Area in Staging	
3.	MTO	SO Item not reserved	Can't find any SO item reserved in records.
4.	MTO	Is Normal Pallet but not	SO: ["PONumber"] exceeded reserved storage plan.
		found any reserved	Please add pallet on your reservation plan/modify
		empty location	
5.	MTO/ MTS	Incorrect check-in	Wrong destination. This production output pallet
		location	should be sent to ["reservedWarehouse"].
6.	MTO	Not found check-out	This pallet has not performed Production Checkout
		records	yet.