SOFTWARE REQUIREMENT SPECIFICATION DOCUMENT

Project

RFID Asset management System UKB Electronics Noida

Customer: UKB Electronics

Submitted By:



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Document Revision History

REVISION NUMBER	DATE	PREPARED BY	COMMENT
1.00	July. 07, 2022	Akhilesh Kumar	Original Document

Acronym

Customer: UKB Electronics henceforth will be referred as UKB.

Vendor: Sato Argox India Pvt. Ltd. henceforth will be referred as SATO.

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SRS: RFID Asset management System

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PROJECT SCOPE

The scope of the solution is to equip users with a RFID Asset management System Solution along with Data scheduler Application through which users can dispatch and receive the product for verification based on several logics to avoid duplicity and ok product get dispatch. This would require the development of the HHT Application for scanning of product, Data scheduler Application & PC Application for Managing Master, process and Reports. The document lays down the specifications of the middleware Application, its architecture and infrastructure requirements.

System Requirements

This section provides the necessary details about the hardware components required by the solution.

Desktop Computers OR Server

The desktop Application would require the computer with following specifications: -

- Intel Core 8th Gen Intel i5 or better CPU
- Operating system Microsoft Windows 7 or 10
- 4 GB RAM
- 500 GB Hard disk Or above
- Dot net Framework 4.5 Preinstalled or above
- SQL 2014 or above Express or Std. Edition
- MS Access (pre-installed)
- IIS Pre Installed

Introduction

The scope of this document is to provide the understanding of this solution to all members of UKB Team & Sato Argox Team associated with the solution development & implementation. This document major emphasize on solution processes & user operations, where the data will be capture and afterwards will be use.

This solution major comprises of followings:

PC Application

- Master Managements
- Process Managements
- Reports

HHT Android Application

- Login
- Connection Settings
- Product Dispatch
- Product Receiving
- Asset Locator

This Document will help the end client to understand the Application and its implementation in various places with the help of screen shots and brief description supporting the images. In addition, these images carries the idea how the Application GUI will look like, the product can have slight visual differences.

PC - Application

Login Screen (Desktop App)

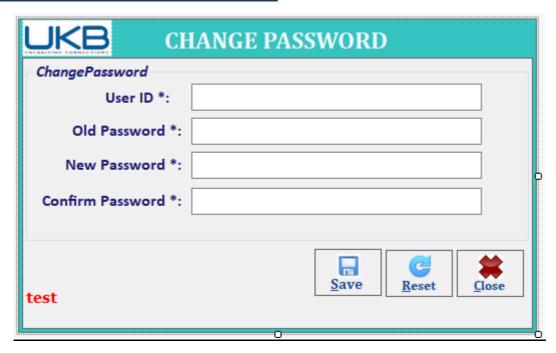


Action available: Login

Brief Description: This screen will use for login purpose. User will enter User ID & Password; system will validate entered user ID & password. Then according to user rights assigned to user, menus of Main Menu screen will be enable.

Sr No.	Function	Description	Remarks
1.	Login	→User will enter User ID & password	
		→User will click on Login Button	
		→Application will validate user id & Password into database. If ok Application will move to main screen.	

Password Change Screen (Desktop App)



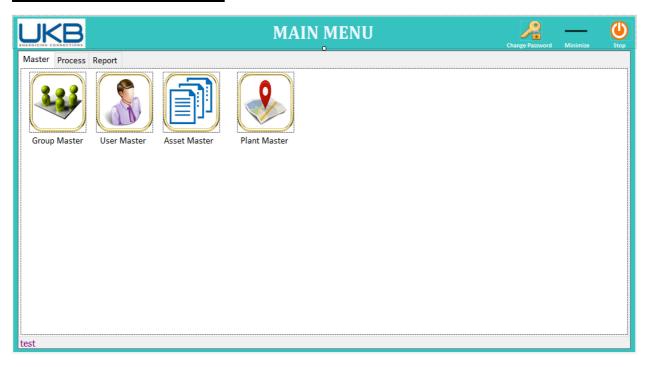
Action available: Change Password

Brief Description: This screen will use for changing the password purpose. User will enter User ID & current password; system will validate entered user ID & password. User will enter the New Password and Confirm the New password, system will validate the password and user can save the new password.

Sr No.	Function	Description	Remarks
1.	Password Change	 →User will enter User ID & password; New Password & Confirm Password. →User will click on Save Button →Application will validate user id & Password into database. If ok Application will update the New password. 	

PC - Application Menu

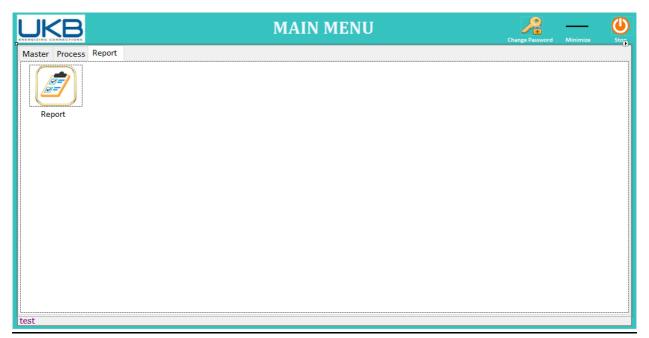
Master Menu (Desktop App)



Process Menu (Desktop App)

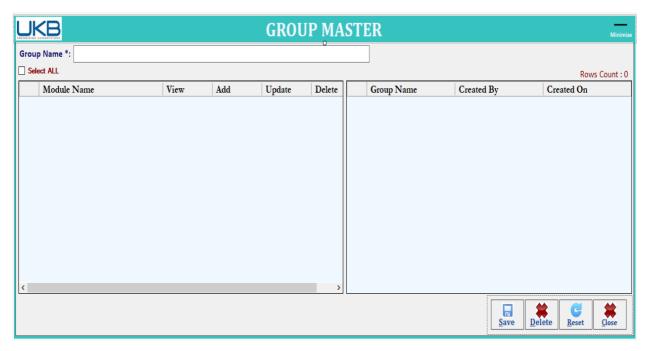


Report Menu (Desktop App)



Master Management

Group Master (Desktop App)



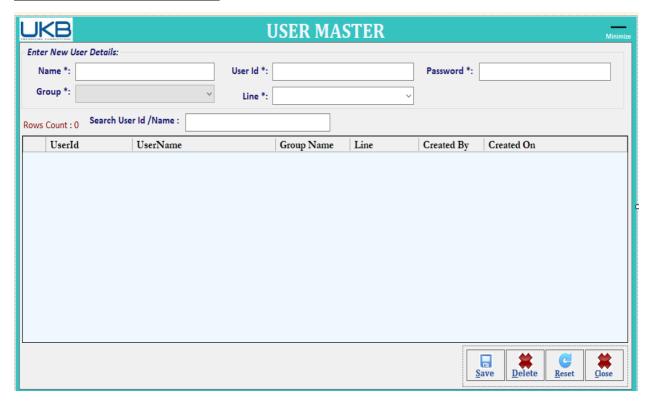
Action available: Save, Delete, Reset, Close

Brief Description: This User Group Master where user can create multiple Groups like Admin, User etc.

User can provide the rights/access as per their requirement.

Sr No.	Function	Description	Remarks
1.	SAVE	→User will enter new User Group information.	
		 →On click of SAVE button, system will check for duplicate records and respected messages of success or failure will be display to user. →All fields gets cleared. 	
2.	Delete	→Double Click on the view record and click on delete button.	
3.	RESET	→Resets the current screen controls.	

User Master (Desktop App)

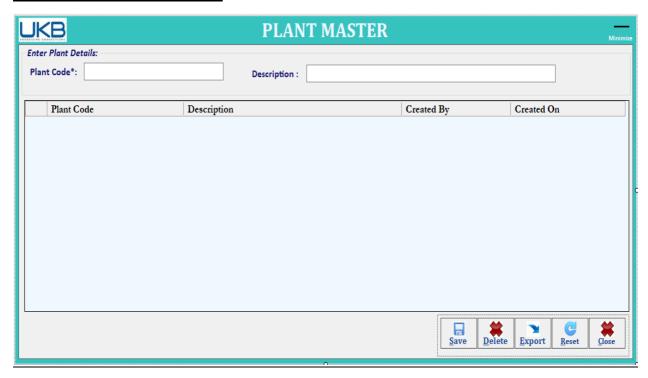


Action available: Save, Delete, Reset

Brief Description: This screen will use to manage User Master via Save & Cancel Operation for using the Application.

Sr No.	Function	Description	Remarks
1.	SAVE	→User will enter the user name, user id (for login id), password and select the group.	
		→On Group selection, automatically rights will Apply as per the group selection.	
		→On click of SAVE button, system will check for duplicate records and respected messages of success or failure will be display to user.	
		→ All fields gets cleared.	
2.	Delete	→ Click on saved record on view and click on delete button.	
3.	RESET	→Resets the current screen controls.	

Plant Master (Desktop App)

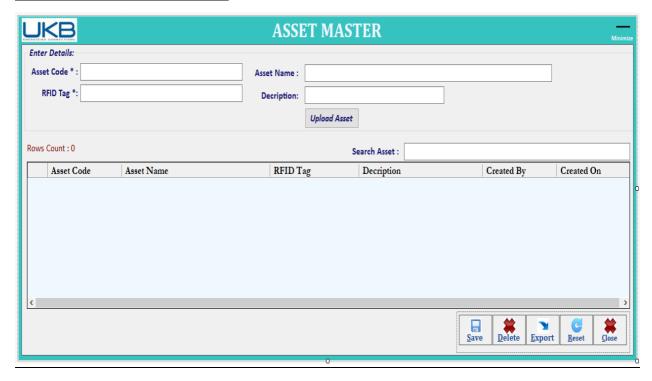


Action available: Save, Delete, Reset

Brief Description: This screen will use to manage the Plant master details like Plant Code and Description.

Sr No.	Function	Description	Remarks
1.	SAVE	→User need to enter the Plant Code and description.	
		→On click of <i>SAVE</i> button, system will save Location master details into the database.	
		→Application checks for duplicate records while uploading/save against Part No.	
		→ All fields gets cleared.	
2	Delete	→ Double Click on saved record on view and click on delete button.	
3.	RESET	→Resets the current screen controls.	

Asset Master (Desktop App)



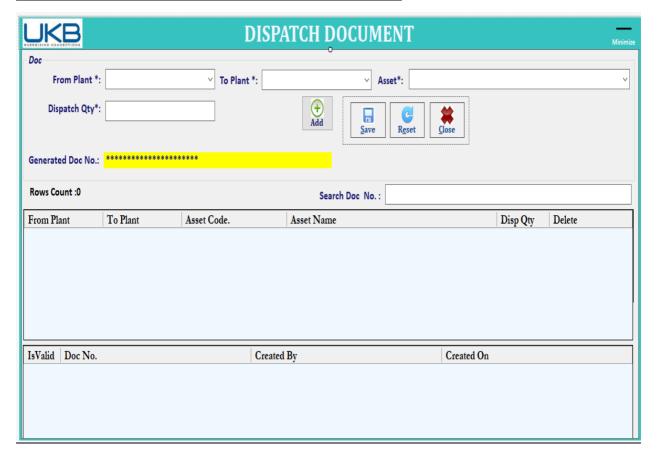
Action available: Save, Delete, Reset

Brief Description: This screen is use to manage the asset master details like asset code, asset name, RFID Tag etc.

Sr No.	Function	Description	Remarks
1.	SAVE	 →User need to enter the Asset master details like asset Code, asset name, RFID Tag. etc. →On click of SAVE button, system will save product master details into the database. →Application checks for duplicate records while uploading/save against Product Code. →All fields gets cleared. 	
2	Delete	→ Double Click on saved record on view and click on delete button.	
3.	RESET	→Resets the current screen controls.	

Process Management

Doc No. Generation for Dispatching (Desktop App)



Action available: Add and Save, Reset

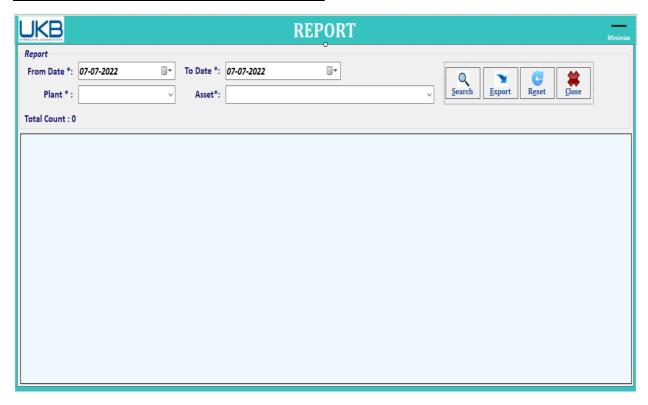
Brief Description: This screen will be used to Generation Doc No. for dispatching.

- > Application will generate the doc no. no. automatically.
 - ❖ Doc No. format will be like Doc-ddMMyy-0001
 - ❖ Eight Digit Date Month Year and last four digit will be auto increment serial no.
- > User will select from plant, to plant, select the dispatch asset and enter the dispatch Quantity as per need to dispatch.
 - On click of Add button location, product and quantity will be added in grid
- > This process will be repeating as per required product for dispatching.
- > User will click on save button to save the selected file data against the doc no.

Note: After saved successfully, Application will show the doc no. User should note down the Doc no. Same doc no will be used for further dispatch for asset dispatching.

Report Management

Report (Desktop App) - Scanning Report



Action available: Search, Export, Reset

Brief Description:

- From Date: User will select form date.
- **To Date:** User will select to date.
- Optional parameters:
- Select Location: User will select plant.
 Select Product: User will select Asset.

Function Description in Detail:

Sr No.	Function	Description	Remarks
1.	SEARCH	→On click of SERACH button, system will get the all details as per the selected parameters.	
2	Export	Export the Report data in CSV file.	

SRS Doc-UKBElectronics.docx *Date: 07.07.2022*

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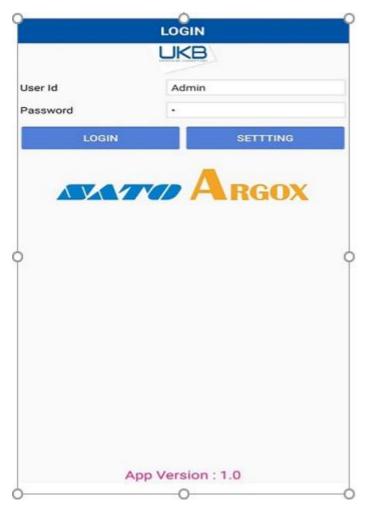
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SRS: RFID Asset management System

3.	RESET	→Resets the current screen controls.	

HHT Screens

Login Screen (HHT)

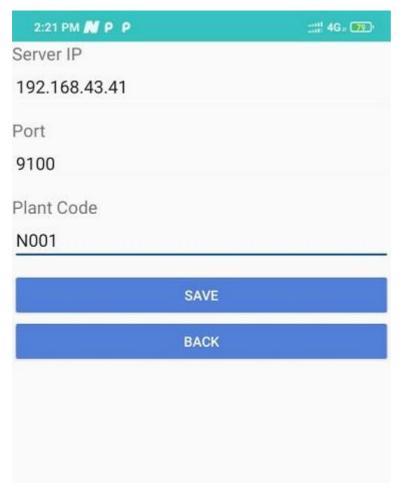


Action available: Login

Brief Description: This screen will use for login purpose. User will enter User ID & Password; system will validate entered user ID & password. Then according to user rights assigned to user, menus of Main Menu screen will be enable.

Sr No.	Function	Description	Remarks
1.	Login	→User will enter User ID & password	
		→User will click on Login Button	
		→Application will validate user id & Password into database. If ok Application will move to main screen.	

Setting Screen (HHT)

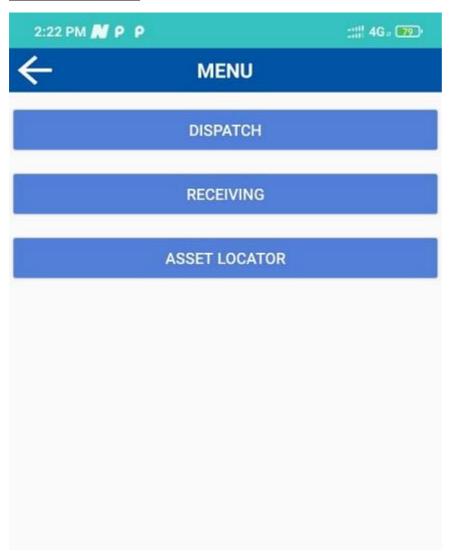


Action available: Setting

Brief Description: This screen will use for server configuration purpose. User will enter Server ID & Port No and Plant code; system will validate all field.

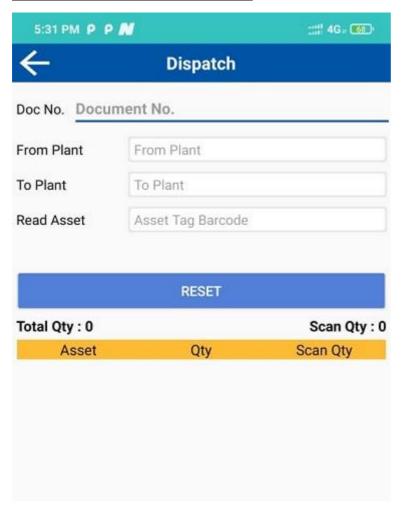
Sr No.	Function	Description	Remarks
1.	Save	→User will enter server ID & Port No. and Plant Code	
		→User will click on Save Button	

Main Menu (HHT)



Brief Description: This screen will be use to select different operations in the HHT.

Asset Dispatch Scanning (HHT)

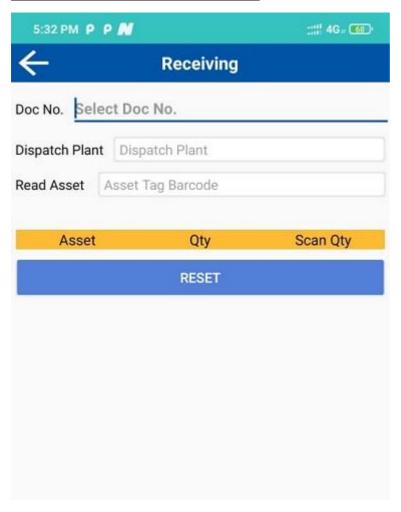


Brief Description: User will follow the following steps.

This screen will be use to dispatch the asset from plant.

- > User will select the doc no. from the drop down then from plant, to plant and asset details will be display...
- > User will read the asset tag.
- > If the tag barcode is valid then the App will save the details else prompt message will display on the screen with details in case of wrong barcode scanned.

Asset Receiving Scanning (HHT)

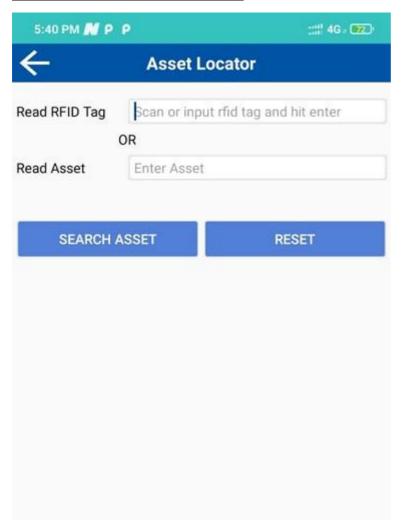


Brief Description: User will follow the following steps.

This screen will be use to receive the asset to other plant.

- User will select the doc no. from the drop down then dispatched asset details and dispatched plant will be display.
- User will read the tag barcode.
- > If the tag barcode is valid then the App will save the details else prompt message will display on the screen with details in case of wrong barcode scanned.

Asset Locator Scanning (HHT)



Brief Description: User will follow the following steps.

This screen will use to identify the asset against RFID Tag and asset Code.

- > User will enter/scan RFID tag or asset code.
- > User will click on search button if data is valid then the App will alert the location of asset.