Application Feature Requirements

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Application Feature Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **FEATURE** | **DESCRIPTION** | **CONFIRMATION NEEDED** | **COMMENT/FEEDBACK** |
| 1 | BASIC INFORMATION | | |  |
|  | Suppliers | * Manage supplier information: Id and Name. * Supplier Id is generated automatically by the application. * Name is unique and mandatory. | Any other information required (e.g. Address, phone, email etc.)? |  |
|  | Raw materials | * Manage raw material information: Id, Name, SKU, default weight (optional), and default location (optional). * Raw material Id is generated automatically by the application. * SKU can refer to the SKU provided by raw material manufacturer or generated automatically by the application and can be printed through a barcode printer if necessary. Users can scan it on the check-in process. * Name must be unique. * Default weight and location will be used as default values on check-in process and dynamically changed overtime. | Any other required information (e.g. Category etc.)? |  |
|  | Location and Sub Location | * Manage location (Id and Name) and sub location (Id, Name, Location Id) to store raw materials and finished products. * Location/sub location Id is generated automatically by the application. |  |  |
|  | Products | * Manage finished product basic information: Id, SKU, Name, Default Location (optional), Default expiration (number of days/months/years, optional), and all required raw materials along with their quantities for production. * Product Id is generated automatically by the application. * SKU and Name are unique. * SKU can be generated automatically by the application or manually entered by end users and can be printed using a barcode printer if necessary. * Default location will be used as a default value on finished product check-in process. * Default expiration days/months/years will be used to calculate the expiry date for a finished product in check-in process |  |  |
|  | Customer | * Manage Customer: Customer Id, Name, Address, Email, phone. * Customer Id is generated automatically by the application. * Name + Email is unique and mandatory. |  |  |
|  | User and Role | * Manage Role: Role Id, Role Name, Permissions. * Role defines a set of authorizations against application features that can be customized (created, modified, deleted) by special users. * Manage User data: User Id, Username, Password and Role Id. A user can change his/her own password anytime. * Application can only be accessed by an authenticated user. Only authorized features/modules can be accessed by a logged-in user based on his/her assigned role. |  |  |
| 2 | Production Order | | | |
|  | Assumption: User inputs production order into the application. | | | |
|  | Header Information | | | |
|  | Id | *Application* generates a unique production order id |  |  |
|  | Date and time | *Application* records the date and time of production order |  |  |
|  | Customer | **User** provides the customer of issued order |  |  |
|  | User | *Application* records the logged-in user who is inputting the production order |  |  |
|  | Terminal | *Application* stores the computer’s name/IP where the check-in is being processed. |  |  |
|  | Body Information | | | |
|  | Product SKU | User inputs the target finished products by typing SKU or choosing from the finished product list |  |  |
|  | Quantity | User inputs the quantity for each production item |  |  |
| 3 | RAW MATERIALS CHECK IN TO WAREHOUSE | | | |
|  | Assumption: A bulk of raw materials are entered into the system on every supplier delivery process. A user inputs **header information** (supplier and reference) and a bulk of raw materials delivered by the supplier as **body information**. | | | |
|  | Header Information | | | |
|  | Date and time | *Application* records date and time of raw materials check-in based on computer date |  |  |
|  | Supplier | **User** provides the supplier of checked-in raw materials |  |  |
|  | User | *Application* records the logged-in user who is inputting the check-in process |  |  |
|  | Reference (optional) | **User** provides a supplier’s document delivery number or another reference data. |  |  |
|  | Terminal | *Application* stores the computer’s name/IP where the check-in is being processed. |  |  |
|  | Body Information | | | |
|  | Carton ID | Carton Id can be entered manually through keyboard typing/barcode scanner or generated automatically by the application. It can be printed through a barcode printer if necessary and will be used for the next stock operation (check out, return, and adjustment) | In the current running application (IMSR), is the Carton ID generated by another 3rd party? |  |
|  | Raw Material SKU | **User** scans or types the raw material SKU or picks from raw material list. |  |  |
|  | Production Date | **User** provides the raw material production date. | Is it required to store the raw material’s expiration date as well? |  |
|  | Weight | *Application* assigns the default weight of raw material when available, a **user** can change it accordingly based on the actual weight. |  |  |
|  | Carton Type | Application automatically assigns **Carton/Unopened** for the carton type |  |  |
|  | Sub Location | *Application* assigns the default sub location of the raw material when available that can be changed by user based on the actual placement |  |  |
| 4 | RAW MATERIALS CHECK OUT FROM WAREHOUSE | | | |
|  | Assumption: A bulk of raw materials are checked out from the warehouse for the production process. | | | |
|  | Header Information | | | |
|  | Date and time | *Application* records date and time of check-out process based on computer date |  |  |
|  | User | *Application* records the logged-in user who is inputting the check-out process |  |  |
|  | Terminal | *Application* stores the computer’s name/IP where the raw material check-out is being processed. |  |  |
|  | Target Location | **User** defines where raw materials go, “Production Facility” is the default target production location. |  |  |
|  | Body Information | | | |
|  | Carton IDs | **User** scans the Carton Id of all the checked-out raw materials | Is it required to prevent checking out a raw material which is not involved in the existing production orders? |  |
| 5 | FINISHED PRODUCT CHECK IN | | | |
|  | Assumption: A bulk of finished products are checked into production/warehouse facility | | Is it required to split this process into several steps? E.g.: (1) Check-In the finished products to Production Facility, (2) Check out from production facility, (3) Check in to warehouse |  |
|  | Header Information | | | |
|  | Date and time | *Application* records date and time of check-in process based on computer date |  |  |
|  | User | *Application* records the logged-in user who is processing the entry |  |  |
|  | Terminal | *Application* stores the computer’s name/IP. |  |  |
|  | Body Information | | | |
|  | Product SKU | **User** defines the finished product by choosing a finished product from list of production orders |  |  |
|  | Batch Number and Expiry Date | *Application* generates a batch number for the specified finished product.  *Application* assigns the expiration date based on number of days/months/years set on Finished Product Basic Information calculated from the date of production.  Application prints out the label containing Product SKU, Product Name, Batch Number, Production Date and Expiration Date through a barcode printer |  |  |
|  | Quantity | **User** set the quantity of the finished product |  |  |
|  | Location | Application sets the default location for the finished product when available, **User** can choose the different location accordingly. |  |  |
| 6 | CUSTOMER ORDER | | | |
|  | Assumption: Input Customer Orders manually. Further development may be required after the completion of the order channel integration | | Is the integration with 3rd party ordering/selling platform currently under development? |  |
|  | Header Information | | | |
|  | Order Id | *Application* generates an order Id |  |  |
|  | Date and time | *Application* records date and time based on computer date |  |  |
|  | Customer | **User** chooses the customer from customer list |  |  |
|  | User | *Application* records the logged-in user who is inputting the customer order |  |  |
|  | Terminal | *Application* stores the computer’s name/IP of the entry process. |  |  |
|  | Body Information | | | |
|  | Product SKUs | **User** defines the finished products requested by customer by choosing a finished product from the list. |  |  |
|  | Quantity | **User** sets the quantity of each requested product |  |  |
| 7 | DELIVERY ORDER / FINISHED PRODUCT CHECK OUT | | | |
|  | Assumption: A bulk of finished products are checked out for delivery order based on the existing customer orders | |  |  |
|  | Header Information | | | |
|  | Delivery Id | *Application* generates a delivery Id |  |  |
|  | Date and time | *Application* records date and time of the entry process based on computer date |  |  |
|  | Customer | **User** chooses the customer from the list |  |  |
|  | User | *Application* records the logged-in user who is inputting the check-out process |  |  |
|  | Terminal | *Application* stores the computer’s name/IP. |  |  |
|  | Body Information | | | |
|  | Batch Number | **User** defines the finished product to deliver by scanning the available batch number of the requested finished product based on the available customer orders |  |  |
|  | Quantity | **User** can set the quantity of the finished product or scan each batch number to deliver |  |  |
|  | Order/delivery status | Application sets the earliest order/delivery status for each finished product |  |  |
| 8 | DELIVERY PROCESSING | | | |
|  | Assumption: User processes the delivery order by setting up the status of each delivery item | |  |  |
|  | Header Information | | | |
|  | Process Id | *Application* generates a processing Id |  |  |
|  | Date and time | *Application* records date and time of the entry process based on computer date |  |  |
|  | Delivery Id | **User** chooses the delivery order from the list |  |  |
|  | User | *Application* records the logged-in user who is inputting the check-out process |  |  |
|  | Terminal | *Application* stores the computer’s name/IP. |  |  |
|  | Body Information | | | |
|  | Order/delivery status | User sets the next delivery status for each product or all products at once | Is it required to set the status for each product to get the percentage of completion? |  |
| 9 | STOCK ADJUSTMENT | | | |
|  | Assumption: User modifies current number of available row material/finished product stock | |  |  |
|  | Header Information | | | |
|  | Process Id | *Application* generates a processing Id |  |  |
|  | Date and time | *Application* records date and time of the entry process based on computer date |  |  |
|  | User | *Application* records the logged-in user who is inputting the process |  |  |
|  | Terminal | *Application* stores the computer’s name/IP. |  |  |
|  | Body Information | | | |
|  | Carton Id | **User** chooses a raw material/finished product by scanning the carton Id/batch number or picking up from list. |  |  |
|  | Weight | **User** set the available carton weight/finished product quantity |  |  |
|  | Description | **User** set the description of the action |  |  |
| 10 | OTHER | | | |
|  | * Automatic Daily Database backup * Module for manual database backup * Module for database restoration * Application Installer * User Guide Document | |  |  |

## Other Questions:

1. What is the distance between warehouse facility and production facility?
2. What barcode printer, printing media/label are you currently using?