

“Superly”

Requirements specification

# Functional Requirements

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| --- | --- | --- | --- | --- | --- | --- |
| ID | Module | Description | Priority | Risk | Status | Feasable |
|  | HR | The system **MUST** support management of employees. | MH | Low | Done | Yes |
|  | HR | The system **MUST** support management of licenses for carriers. | MH | Low | Done | Yes |
|  | HR | The system **MUST** store employees information | MH | Low | Postponed | No (this release doesn’t handle storage) |
|  | HR | The system **MUST** support management of shifts. | MH | High | Done | Yes |
|  | HR | The system **CANNOT** allow creation of shifts without a shift manager | MH | Low | Done | Yes |
|  | HR | The user **SHOULD** be able to edit how many workers of each type each shift needs | NTH | Low | Done | Yes |
|  | HR | The system **CANNOT** allow creation of shifts with no carriers, cashiers, storekeepers or sorters | MH | High | In Progress | Yes |
|  | HR | The system **MUST** show which employees are available for each shift when scheduling | MH | High | Done | Yes |
|  | HR | The system **SHOULD** show how many shifts each available employee has done the past month for each shift type | NTH | High | Done | Yes |
|  | HR | The system **MUST** store shift history | MH | Low | Postponed | No |
|  | Suppliers | The system **MUST** support 3 kinds of suppliers (routine, by order, not transporting) | MH | Low | Done | Yes |
|  | Suppliers | The system **MUST** save the supplier's information (id, bank account, paying agreement, contacts and contact's information) | MH | Low | Done | Yes |
|  | Suppliers | The system **MUST** save if the supplier has fixed supplying days and when they are. | MH | Low | Done | Yes |
|  | Suppliers | The system **MUST** save details about the supplied items (cost per item, cost when buying in bulk) | MH | Low | Done | Yes |
|  | Suppliers | The system **MUST** show what items are purchased from each supplier | MH | Low | Done | Yes |
|  | Suppliers | The system **MUST** give the corporate management the ability to edit the agreement's details (supplying days, prices, changing items) | NTH | Low | Done | Yes |
|  | Suppliers | The system **SHOULD** be able to integrate with the supplier's system by saving for each item it's ID given by the supplier | NTH | High | In Progress | Yes |
|  | Inventory | The system **MUST** store: store ID, product ID, item name, categories, product current amount in store, product current amount in warehouse, product current amount in the branch (store + warehouse), product minimum amount in the branch, product maximum amount in the branch, product price, active sales, upcoming sales, passed sales, product weight, suppliers, supplier-productIDs for all products, purchases from suppliers. | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** send an alert when product is getting under the minimum amount in a certain branch. specifying product ID and store ID | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** allow employees to change the minimum and maximum value of each product in a branch. | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** be able to produce a report of all products in all branches that are below their minimum amount. The report should include the following: store ID, product ID, product name, product current amount in store, product current amount in warehouse, product current amount in the branch (store+warehouse), product minimum amount in the branch, product maximum amount in the branch | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** track amounts of product left in each location (each store and each warehouse), including: 1) buying product 2) removing damaged/expired products 3) moving products from the warehouse to the store 4) product has been returned to the store from a customer 5) product has been arrived from supplier. | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** be able to produce a report of all products in a chosen branch based on categories. The report should include the following: store ID, product ID, product name, category, product current amount in store, product current amount in warehouse, product current amount in the branch (store+warehouse), product minimum amount in the branch, product maximum amount in the branch. | MH | Low | Done | Yes |
|  | Inventory | The system **SHOULD** be able to produce the history of the completed purchases from the suppliers, for a certain product. The history should include the following: StoreID, Supplier, Date, Amount, before discount price, after discount price, description. | NTH | Low | Done | Yes |
|  | Inventory | The system **MUST** be able to produce the history of the completed purchases from the suppliers, for a certain product that was bought with a discount. The history should include the following: StoreID, Supplier, Date, Amount, before discount price, after discount price, description. | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** be able to create/cancel sales that apply to certain products and/or categories to specified dates. Sales include: sale ID, percentage, start date, end date, Products IDs, categories IDs. | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** be able to produce the history of the sales to customers by product or by category. The history should include the following: sale ID, percentage, start date, end date, Products IDs, categories IDs. | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** be able to manage category (create, read, update, delete): update: change parent category, change name, change products in category | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** be able to manage product (create, read, update, delete): update: change category, change name, change price, add to a certain store, remove from a certain store, add new supplier to product, remove supplier from product | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** allow employees to report about damaged/expired products. The user will insert the following information: store ID, product ID, amout, user ID, description. | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** be able to produce a report of damaged products/expired products/both products which were reported on certain range of dates. The report should include the following information: product ID, store ID, amount, user ID, description, date, expired/damaged. | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** be able to add and to remove branches to and from the chain. | MH | Low | Done | Yes |
|  | Suppliers & Inventory | The system **MUST** support automatic orders, initiated whenever stock running low. | MH | Low | Done | Yes |
|  | Suppliers & Inventory | The system **MUST** support automatic orders in fixed times (routine). | MH | Low | Done | Yes |
|  | Suppliers & Inventory | The system **MUST** support that orders cannot be edited in the last 24 hours before the order's planned deliveries. | MH | Low | Done | Yes |
|  | Suppliers & Inventory | The system **MUST** support for each item in the inventory: the ordered item's quantity combined with the current amount in stock must be above the minimum quantity. | MH | High | Done | Yes |
|  | Suppliers & Inventory | The system **MUST** support choosing the best supplier for a specific order, choosing the cheapest one. | MH | High | Done | Yes |
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# Non-Functional Requirements

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| --- | --- | --- | --- | --- | --- | --- |
| ID | Module | Description | Priority | Risk | Status | Feasable |
|  | HR | Employee information consist of ID, Name, Bank details, Salary, Employment conditions, Starting date, Certifications | MH | High | Done | Yes |
|  | HR | Each employee has 1 job title. Job titles are Cashier, Storekeeper, Carrier, Sorter, HR Manager, Logistics Manager | MH | Low | Done | Yes |
|  | HR | Shift types are Morning shift, Evening shift | MH | Low | Done | Yes |
|  | HR | Managerial employees work morning shifts only | MH | Low | Done | Yes |
|  | Suppliers | The system should have the ability to add/remove/edit/watch a supplier | MH | Low | Done | Yes |
|  | Inventory | Each product belongs to one parent category or none, but can have any number of sub-categories. (sub-category and parent category are in a two-way connection) | MH | Low | Done | Yes |
|  | Inventory | The report of damaged/expired products needs to be able to be sorted by: store, product, category. | MH | Low | Done | Yes |
|  | Inventory  & Suppliers | An order must include store id, Supplier id, Products ids, Products amounts, arrival time, original price, discount and final price. | MH | Low | Done | Yes |
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1. Terms

Table 1: Terms

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| **#** | **Term** | **Description** |
|  | Management | Set of action which include creation, editing (information) and removal of defined class. |
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1. Open Questions

Table 3: Questions

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| **#** | **Topic** | **Issue** |
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1. Assumptions

Table 2: Assumptions

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| --- | --- | --- |
| **#** | **Topic** | **Assumption** |
|  | Suppliers | The contact's info is only phone number and name. |
|  | Suppliers | We can't change orders from by order suppliers in the last 24 hours before the shipment. |
|  | Suppliers | A supplier has only one type of agreement, from : by order, routine, not transporting. |
|  | Suppliers | When stocks running low, we choose the cheapest supplier to order from, not considering his arrival time. |
|  | Suppliers | We can add new supplier for the system without agreement. (Maybe we want just to save his information for future deals). |
|  | Suppliers | We assume that when adding an item to agreement, the supplier manager knows both the id this item has at the supplier catalog and the id this item has at inventory. |

Version History

Table 3: Version History

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| --- | --- | --- |
| **Date** | **Author** | **Remarks** |
| 25/04/2022 | Roi Tiefenbrunn | First draft |
| 09/05/2022 | Yonatan Diga | Added suppliers & Inventory requirements and suppliers assumptions. |
| 11/05/2022 | Yonatan Diga | Improved requirements |