

“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 employee information | MH | Low | Done | Yes |
|  | 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 | Done | Yes |
|  | HR | The system **SHOULD** notify about upcoming incomplete shifts | NTH | Low | In Progress | Yes |
|  | 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 |
|  | Inventory | The system **MUST** store the following product info: product ID, item name, category, price, weight, and manufacturer | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** store the following information about stock per each product: product ID, amount in each storefront, amount in each store warehouse, and each store’s min amount | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** store the following information about sales per each product and category: active sales, passed sales, future sales, percent off in sale | 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 supply a report of damaged/expired products needs to be able to be sorted by: store, product, category. | 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 must 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 choosing the best supplier for a specific order, choosing the cheapest one. | MH | Low | Done | Yes |
|  | Suppliers & Inventory | The system **MUST** store the following order information: store id, Supplier id, Products ids, Products amounts, arrival time, original price, discount and final price. | MH | Low | Done | Yes |
|  | HR & Transport | The system **MUSN’T** allow carrying out transport when no storekeepers are present at the transport arrival time. | MH | High | In Progress | Yes |

# Non-Functional Requirements

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| --- | --- | --- | --- | --- | --- | --- |
| ID | Module | Description | Priority | Risk | Status | Feasible |
|  | Suppliers | The system **SHOULD** have the ability to add/remove/edit/watch a supplier | MH | Low | Done | Yes |
|  | Inventory | The system **MUST** support each product belonging to exactly one category, and each category having exactly 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 |

1. Terms

Table 1: Terms

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| --- | --- | --- |
| **#** | **Term** | **Description** |
|  | Management | Set of action which include creation, reading, editing (information) and removal of defined class. |
|  | Employee information | ID, Name, Bank details, Salary, Employment conditions, Starting date, Certifications |
|  | Employee types | Cashier, Storekeeper, Carrier, Sorter, HR Manager, Logistics Manager, Transport Manager |
|  | Shift types | Morning shift, Evening shift |
|  | Target amount | The number of items needed for certain product in a specific store after it gets under its minimum amount. |
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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. |
|  | Inventory | There is predefined target amount per product per store which is above the min amount, such that when creating an order because of low stock the order amount should be target-min |
|  | Suppliers+Inventory | The System is shut down at the end of each workday, and turned on at the beginning of the day. At the beginning of each day we send the suppliers the updated amounts for the next day’s orders if needed. |
|  | Suppliers+Inventory | When a delivery arrives at the warehouse, the orderID and supplierID is known (attached to the driver’s receipt) |
|  | Suppliers+Inventory | Each supplier can have different ID for the same product (For example: Bamba can have ID 1 in Superly, ID 5 in supplier 1 and ID 1 in supplier 2) |
|  | Suppliers | The "best" supplier is the cheapest one regardless to arriving time. |

Version History

Table 3: Version History

|  |  |  |
| --- | --- | --- |
| **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 |
| 14/05/2022 | Tomer Ravkaie | Improved Requirements and Assumptions |
| 15/05/2022 | Roi Tiefenhbrunn | Deleting of non-functional reqs for HR-module Adding new terms Adding new HR NTH requirement Adding new HR-Transport MH requirement |