אוניברסיטת בן-גוריון בנגב
Ben-Gurion University of the Negev

הפקולטה למדעי ההנדסה
המחלקה להנדסת מערכות מידע

Faculty of Engineering Sciences
Dept. of Information Systems Engineering

Ben-Gurion University
of the Negev

Super-Lee software

Requirements specification

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Table1: Requirements

ID	Module	Description	Priority	Risk	Type	Status
1.	Inventory	The system **MUST** notify if specific item quantity is below a minimum amount that need to be stored	MH	HIGH	F	Completed
2.	Inventory	The system **MUST** support "CRUD" for inventory products	MH	Low	F	Completed
3.	Inventory	The system **MUST** store for each item the following information: quantity, manufacture, location, amount on shelves, amount in stock, buying price, selling price	MH	Low	F	Completed
4.	Inventory	The system **SHOULD** support creating and updating discounts on products and categories in a given date	NTH	Low	F	Completed
5.	Inventory	The system **SHOULD** support classification by category and subcategories for each item stored	NTH	HIGH	F	Completed
6.	Inventory	The system **SHOULD** allow to generate inventory reports	NTH	Low	F	Completed
7.	Inventory	The system **SHOULD** keep track of damaged items and expired date items	NTH	Low	F	Completed
8.	Inventory	The system **MUST** support reporting an item as a damaged product.	M	Low	F	Completed
9.	Inventory	The system **SHOULD** allow to generate damaged\expired reports.	NTH	Low	F	Completed
10.	Inventory	The system **MUST** detect expired products.	MH	Low	F	Completed
11.	Supplier	The system **MUST** support adding suppliers cards.	MH	Low	F	Completed
12.	Supplier	The system **MUST** support supplier's personal details saving.	MH	Low	F	Completed
13.	Supplier	The system **MUST** support suppliers deletion.	MH	Low	F	Completed
14.	Supplier	The system **MUST** support supplier's personal details updating.	MH	Low	F	Completed
15.	Supplier	The system **MUST** support supplier's contract details updating.	MH	Low	F	Completed
16.	Supplier	The system **MUST** keep track of suppliers orders history.	MH	Low	F	Completed
17.	Supplier	The system **SHOULD** compare between different suppliers offers by quantity lists.	NTH	Med	F	InProgress
18.	Supp & Inv	The system **MUST** support new orders due to out of stock status.	MH	Med	F	InProgress
19.	Supp & Inv	Periodical orders **MUST** be updated at least one day before order date.	MH	Low	NF	InProgress
20.	Supp & Inv	The system **MUST** support CRUD for periodical orders.	MH	Med	F	InProgress
21.	Employee	The System **MUST** document and track the details of the company employees. The details are first name, last name, ID, bank account, salary, terms of employment and start date of employment.	MH	Low	F	Completed
22.	Employee	The system **SHOULD** manage a documentation of days and hours of which the employees can work at.	MH	Low	F	Completed

#	Category	Requirement				
23.	Employee	The system **SHOULD** enable editing the documentation of days and hours of which the employees can work at.	MH	Low	F	Completed
24.	Employee	The system **SHOULD** manage a documentation that specifies which job each employee can do.	NTH	Low	F	Completed
25.	Employee	The system **SHOULD** enable assigning workers to shifts.	NTH	High	F	Completed
26.	Employee	The system **SHOULD** document the history of the shifts.	NTH	High	F	Completed
27.	Employee	The system **MUST** not enable a shift assigning without a shift manager	MH	Low	F	Completed
28.	Employee	The system **SHOULD** allow the human resources manager to select the required roles in each shift.	NTH	Low	F	Completed
29.	Employee	The system **MUST** ensure that each employee has only one role at each shift.	MH	Low	F	Completed
30.	Employee	The system **MUST** allow each employee to have more than one job.	NTH	Low	F	Completed
31.	Employee	The system **MUST** ensure that the store has at least these jobs: storekeeper, cashier, human resources manager, shift manger and driver	MH	Low	F	Completed
32.	Employee	The system **MUST** allow each employee to work at more than one branch.	NTH	Low	F	Completed
33.	Employee	The system **MUST** allow the human resources manager to: add, delete, update and view the employee details.	MH	Low	F	Completed
34.	Employee	The system **MUST** allow the employee to view and update its details.	MH	Low	F	Completed
35.	Employee	The system **MUST** enable both the: human resources manager and the employee enter the constraints	MH	High	F	Completed
36.	Deliveries	The system **MUST** document and track the details of the deliveries. The details are: Date, Leaving time, Truck number, Driver name, source and destinations.	MH	High	F	Completed
37.	Deliveries	The system **MUST** enable entering the delivery weight and alarm on excessive weight of delivery.	MH	Low	F	Completed
38.	Deliveries	The system **MUST** have a table of drivers and types of licenses to map correctly a driver to a delivery vehicle.	MH	Low	F	Completed
39.	Deliveries	The system **MUST** save unique serial number for each delivery.	MH	Low	F	Completed
40.	Deliveries	The system **SHOULD** maintain a database of its trucks. The truck details are: ID, model, truck weight, max weight, license, area.	NTH	Low	F	Completed
41.	Deliveries	The system **MUST** have sites database with addresses, phone numbers and names of the contacts.	MH	Low	F	Completed
42.	Deliveries	The system **MAY** enable to define different shipping areas.	NTH	Low	F	Completed
43.	Deliveries	The system **MAY** enable to re-edit the delivery document.	NTH	High	F	Completed
44.	Deliveries	The system **MUST** only allow a driver to drive on trucks that fits his license.	MH	Low	F	Completed
45.	Deliveries	The system **SHOULD** maintain a document with the delivery content for each delivery.	NTH	Low	F	Completed

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46.	Deliveries	The system **MUST** in the case of overweight delivery give the user the option of: removing items from destination, removing a destination or the system will find a new truck.	MH	High	F	Completed
47.	Emp & Dev	The system **MUST** allow scheduling a driver to a shift	MH	Low	F	InProgress
48.	Emp & Dev	The system **MUST** make sure a driver is on shift during which a delivery is supposed to take place	MH	Low	F	InProgress
49.	Emp & Dev	The system **MUST** make sure a storekeeper is on shift when a delivery is scheduled	MH	Low	F	InProgress

Table2: Open questions

#	Topic	Issue	Assumption
1.	Discount frequency	How often can discounts be issued by the suppliers?	
2.	Damaged products	How often employee reports on a damaged item?	
3.	Supplier access	How the system should provide access to supplier in order to update discount?	
4.	Employee Shifts	How many times can an employee work a day?	We assume that he/she can work once a day.
5.	Employee Shifts	Can a shift be deleted?	We assume it cannot be done.
6.	Employee Salary	Can an employee change his salary?	An employee cannot change his salary
7.	Terms of Employment	Can an employee change the terms his of employment?	An employee can change the terms of his terms.
8.	Order frequency	How often can orders be issued due to insufficient inventory?	We assume that there will always be enough inventory.
9.	Delivery time	Can a delivery cross between shifts?	We assume it cannot be done; a delivery length is the length of one shift.

Table3: Answered questions

#	Topic	Issue	Answer
1.	Jobs that employees cannot perform	What does the "etc." include?	An employee who performs one job must not perform another job at the same time
2.	Terms of employment	What should the terms of employment include?	In this stage it's a String.
3.	Cancelation at the checkout	Is the system responsible for canceling at the checkout?	It is not our responsibility for right now.
4.	Number of roles in one shift per employee	Does each employee have only one role in each shift?	Each employee must have only one role at each shift.
5.	Number of roles per employee	Can an employee have more than one job?	Each employee may have more than one job. It's the same in Topic:" Jobs that employees cannot perform"
6.	Jobs in the supermarket	Which jobs are there in the supermarket?	storekeeper, cashier, human resources manager, shift manger, driver and more.
7.	Number of branches an employee work at	How many branches can an employee work at?	An employee may work at more than one branch.
8.	human resources manager selecting the required roles	Is this a system requirement?	Yes, he should be able to choose this for each shift.
9.	Enter the constraints	Who can enter the constraints?	The system must enable both the: human resources manager and the employee enter the constraints
10.	Number of human	How many human resources manager can there be?	Can assume there is only one

	resources manager		
11.	employee edit and view its details	Can an employee edit and view its details?	The system must allow the employee to view and update its details.
12.	human resources manager- actions to do	What can the human resources manager do?	The system must allow the human resources manager to: edit, add, delete, update and view the employee details.
13.	Lack of stock.	How can we know if there are missing items in the stock?	There is currently no way to know about stock shortages.
14.	Over-weight delivery.	What should happen when there is no suitable truck for the over-weight delivery?	The delivery should be delayed.
15.	Damaged products	Is a damaged product is a part of the stock amount?	No. (Forum)
16.	Reports	Which details need to be in the report?	Must include quantities (Forum)
17.	Branches	Need to supply more than one branch?	Need in the future.
18.	Orders from Suppliers	Do we need to record buying prices from suppliers?	Right now there is no option to order from supplier, so no. (Forum)
19.	Contacts modification	Should the system support adding, modifying and removing contacts?	Yes
20.	Suppliers Modification	Should the system support supplier's details modification?	Yes
21.	Suppliers delivery days	Delivery days are mentioned in contracts, modifying them means a new contract or just a contract modification?	No delivery days modification but new contracts
22.	Contracts with suppliers	How long is the contract? Does it last for years? months?	Until deletion is made
23.	Multiple contact appearances	Is it possible that a certain contact works in more than one company? meaning that he might appear more than once in contacts list, for each company	Yes

Table4: Terms

#	Term	Description
1.	Manager	Primary in the EM module. Responsible for managing employees and shift assignment.
2.	Truck	Primary actor in the Delivery module. Responsible for employee registration and shift assignment.
3.	Supplier	Primary actor in supplier module. Has supplier-card and represents a supplier who interacts with *Super-Li*.
4.	Supplier Card	Holds supplier's personal and contract details.
5.	Supplier Personal Details	Includes name, private company number, bank account number and terms of payment.
6.	Supplier Contract Details	Includes terms of delivery (permanent/not permanent days or not delivering), items included in contract, price and quantities list (if has).
7.	Suppliers Orders History	Includes items and its catalog number used by supplier.
8.	Stock product	Represents a product in the store. It includes details about its location in the store, its quantity and its price.
9.	Product instance	Represent a singular, specific product in the store. It has a unique serial number, quality status (Damaged or Valid) and expiration date.