



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



Super-Li: Delivery Module

Requirements specification

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1. Requirements

ID	Module	Functional / Non-Functional	Description	Priority	Risk	Status
1.	Delivery	Functional	The system must support the management (adding, deleting, viewing, editing) of delivery sites (branches and supplier warehouses): delivery zone, address, contact name and phone number.	MH	High	Done
2.	Delivery	Functional	Upon adding a new delivery site, the system will generate a unique id for it.	MH	Low	Done
3.	Delivery	Functional	Deleting a site will be possible only if there aren't any upcoming deliveries which have this site as their origin or destination.	MH	Low	Done
4.	Delivery	Functional	The user will be able to view the different delivery sites of a specific delivery zone.	NTH	Low	Done
5.	Delivery	Functional	The user will be able to search a site according to its id number.	NTH	Low	Done
6.	Delivery	Functional	The system must support the management (adding, deleting, viewing, editing) of Super-Lee's trucks: plate number, model, max weight.	MH	High	Done
7.	Delivery	Functional	The user will be able to view the different trucks ordered according to their max weight.	NTH	Low	Done
8.	Delivery	Functional	Deleting a truck will be possible only if there aren't any upcoming deliveries which this truck is assigned to.	MH	Low	Done
9.	Delivery	Functional	The user will be able to search a truck according to its plate number	NTH	Low	Done
10.	Delivery	Functional	The system must support adding a new upcoming delivery: start time, end time, truck, driver, origin site and destination site.	MH	High	Done
11.	Delivery	Non-Functional	Start and end time of a delivery will be in the format: dd-MM-yyyy HH:mm	NTH	Low	Done
12.	Delivery	Functional	The origin site of a delivery may be a "Super-Li" branch or a supplier's warehouse.	MH	Low	Done
13.	Delivery	Functional	A destination site of a delivery must be a "Super-Li" branch.	MH	Low	Done
14.	Delivery	Functional	A delivery must contain at least one destination.	MH	Low	Done
15.	Delivery	Functional	When an upcoming delivery is added the system will generate a unique identifier for it.	MH	Low	Done
16.	Delivery	Functional	The system will display an error if the	MH	Low	Done

			user is trying to assign a driver without a suitable license for the chosen truck (according to the truck's max weight and the driver's license type).			
17.	Delivery	Functional	The system will display an error if the user is trying to reserve a truck for a delivery if it is already reserved for another delivery and their start time and end time overlap partially or completely.	MH	Low	Done
18.	Delivery	Functional	The system will display an error if the user is trying to reserve a driver for a delivery if he is already reserved for another delivery and their start time and end time overlap partially or completely.	MH	Low	Done
19.	Delivery	Functional	The system must support the editing of an upcoming delivery: start time, end time, truck, driver, and origin site.	MH	High	Done
20.	Delivery	Functional	Destinations can be added to an upcoming delivery.	MH	Low	Done
21.	Delivery	Functional	Removing a destination from an upcoming delivery will be possible only if it is not the only destination of the delivery.	MH	Low	Done
22.	Delivery	Functional	Items can be added to list of items to be supplied to a certain destination of an upcoming delivery.	MH	Low	Done
23.	Delivery	Functional	Items can be removed from the list of items to be supplied to a certain destination of an upcoming delivery.	MH	Low	Done
24.	Delivery	Functional	The quantity of a certain item to be supplied for a destination of an upcoming delivery can be edited.	MH	Low	Done
25.	Delivery	Functional	The system must support the deletion of an upcoming delivery.	MH	Low	Done
26.	Delivery	Functional	The user will be able to view the list of upcoming deliveries.	MH	Low	Done
27.	Delivery	Functional	The user will be able to search an upcoming delivery according to its id number.	NTH	Low	Done
28.	Delivery	Functional	When a delivery arrives at its destination the user will be able to "complete" the delivery.	MH	Low	Done
29.	Delivery	Functional	A delivery can be "completed" only if the truck's actual weight is updated to be greater than 0.	MH	Low	Done
30.	Delivery	Functional	Completing a delivery will add the record of the delivery to the Delivery Archive.	MH	Low	Done
31.	Delivery	Functional	Completing a delivery will remove it from the upcoming deliveries list.	MH	Low	Done
32.	Delivery	Functional	The system will display an error if the actual truck weight is higher than the max weight of the truck.	MH	Low	Done
33.	Delivery	Functional	A record of a completed delivery will contain the id of the delivery, driver's	MH	Low	Done

			name and id, truck's plate number, start and end time of the delivery, the origin site's address, the truck's actual weight, and for each of the destination- their id, address, and a list of the items to be delivered to that destination and the quantity from each item.			
34.	Delivery	Functional	A record of a completed delivery cannot be deleted.	MH	Low	Done
35.	Delivery	Functional	A record of a completed delivery cannot be modified.	MH	Low	Done
36.	Delivery	Functional	The user will be able to view the Delivery Archive.	MH	Low	Done
37.	Delivery	Functional	The user will be able to search a completed delivery according to its id number.	NTH	Low	Done

Appendix A : Terms

ID	Term	Description
1.	site	Either a supplier's warehouse or a Super-Li branch.
2.	origin	Either a supplier's warehouse or a Super-Li's branch.
3.	destination	A Super-Li's branch.
4.	License Type	C1- permits driving a truck with max weight is equal or below 12000 kg C- permits driving all trucks
5.		

Appendix B : Open Questions

ID	Topic	Issue
1.	Actors	Who are the relevant actors?
	Sites	Who is permitted to manage Sites?
	Trucks	Who is permitted to manage trucks?
	Delivery zones	What delivery zones are there?

Appendix C : Assumptions

ID	Topic	Issue	Answer
1.	Delivery zones	What delivery zones are there?	North, Center, South
2.	Delivery zones	How do the delivery zones limit the reservation of deliveries?	They don't. The user can view the delivery zone of every site for easier and reasonable planning of the delivery
3.	Truck's weight	What is the unit of measurement for a truck's weight?	kg