הפקולטה למדעי ההנדסה המחלקה להנדסת מערכות מידע Faculty of Engineering Sciences Dept. of Information Systems Engineering



Super-Li: Delivery & Employee Modules

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Requirements

ID	Module	Functional	Description	Priority	Risk	Status	Notes
		/					
		Non-					
		Functional					
1	Suppliers	NF	The system will allow	NTH	Low	Done	
			different suppliers to supply				
			products from the same				
			manufacturer				
2	Suppliers	F	The system must allow to add	MH	High	Done	
			supplier cards to the system				
			which include supplier name,				
			business number, bank				
			account, payment details,				
			contact communication				
			details, delivery days, option				
		_	for self-delivery			_	
3	Suppliers	F	The system will allow for each	MH	Low	Done	
			supplier to choose delivery				
	C !:	_	days.				
4	Suppliers	F	The system will allow the user	MH	High	Done	
			to view items that each				
		_	supplier has in his catalog				
5	Suppliers	F	The system will allow to add	NTH	High	Done	
			discounts (as part of the				
			quantity agreement) for items				
	C 1:	_	based on their quantity.				
6	Suppliers	F	The system will allow to make	MH	Low	Done	
7	Compliana	F	reports of orders done				
7	Suppliers	F	The system will allow to save				
			all catalog items that a given				
			supplier has in the quantity				
8	Cumplions	F	agreement	NALL	Hiah	Done	
^	Suppliers		The system must allow to make quantity agreement for	MH	High	Done	
			each supplier				
9	Suppliers	F	The system must allow the	MH	Low	Done	
	Suppliers	'	supplier manager to save the	IVIII	LOW	Done	
			suppliers preference: self-				
			delivery or pickup (so SuperLi				
			will arrange the pickup)				
10	Suppliers	F	The system must allow to	МН	Low	Done	
		_	order from suppliers			20.10	
11	Suppliers	F	The system must allow to	NTH	Low	Done	
	cappiic.5		update bank account,	.,,,,,		20110	
			payment details, pickup				
			payment actails, pickup				

			option, contact				
			communication details				
12	Suppliers	F	The system will allow to make	MH	Low	Done	
			a routine order from suppliers				
			(only from the delivery days				
12	6 1:		of the supplier)				
13	Suppliers +	F	The system will allow to check	MH	High	Done	
	Inventory		for items that are out-of-				
			stock and order them from				
			the supplier with the lowest				
14	Suppliers	F	price The system will show the	MH	High	Done	
14	Suppliers	Г	routine orders of tomorrow	IVIII	піgіі	Done	
			at start-up and will allow the				
			user to alter those orders.				
15	Suppliers	F	The system will allow to view	MH	Low	Done	
	00.00	•	all suppliers and their details.			200	
16	Suppliers	F	The system will allow to view	MH	High	Done	
			all the routine orders				
17	Suppliers	F	The system will allow to view	MH	Low	Done	
			all orders of a specific				
			supplier				
18	Inventory	F	The system MUST send	MH	LOW	Done	
			reports regarding products in				
			stock when the user request				
			it.				
19	Inventory	F	The system MUST keep	MH	LOW	Done	
			information about each				
			product in stock: name,				
			quantity, location, producer,				
			category, quantity in store,				
			quantity in warehouse, and discounts.				
20	Inventory	F	The system MUST keep and	MH	LOW	Done	
20	Inventory	Г	track the cost price and the	IVIII	LOVV	Done	
			selling price of each product.				
21	Inventory	F	The system CAN have an	NTH	HIG	Done	
	inventory	•	option to update discount on		Н	Done	
			specific products or category				
			by given dates.				
22	Inventory	F	The system CAN categorize	NTH	LOW	Done	
	•		each product				
23	Inventory	F	The system MUST have an	MH	HIG	Done	
			option to generate Inventory		Н		
			report including all				
			information about products				
		_	about to run out of stock.		1		
24	Inventory	F	The system MUST have an	MH	HIG	Done	
			option to generate Inventory		Н		
			report including all				

			information about expired products.				
25	Inventory	F	The system MUST have an	MH	HIG	Done	
23	inventory	Į.	option to generate Inventory	IVIII	H	Done	
			report including all		''		
			information about defective				
			products.				
26	Inventory	F	•	NTH	HIG	Done	
20	Inventory	Г	Inventory report CAN be filtered by category.	INIT	Н	Done	
27	Inventory	F	The system MUST track	MH	HIG	Done	
21	Inventory	Г	expired items in the stock	IVIII	Н	Done	
28	Inventory	F		MH	HIG	Dono	
28	Inventory	Г	The system MUST be able to	IVIII		Done	
			track defective items when a		H		
			user reports about finding				
20	Inventory		One.	NALL	IIIC	Dono	
29	Inventory	F	The system MUST have an	МН	HIG	Done	
			option to generate periodical		H		
			reports about defective or				
20	las contant		expired items in the stock.	N A L L	IIIC	Dana	
30	Inventory	F	The system MUST have an	MH	HIG	Done	
			option to generate out of		H		
21	Franciscos	NΓ	stock products report.	N A L L	Hiah	Dana	
31	Employee	NF	The system will save in an	MH	High	Done	
			SQLite database for each				
			employee their:				
			Name, Id, Bank account				
			details, Salary, work starting				
			date and Working conditions				
			containing their working hours, qualification as well as				
			additional text information.				
32	Employee	F		MH	Hiah	Dono	
52	Employee	Г	The system will allow the HR manager will be able to	IVIII	High	Done	
			manage each employees'				
			data.				
33	Employee	NF	The system will save a day	MH	Low	Done	
33	Employee	INF	and night shift for each day.	IVIII	LOW	Done	
34	Employee	NF	The system will allow	MH	High	Done	
34	Employee	INF	assigning a shift manager for	IVITI	півіі	Done	
			each shift.				
35	Employee	F	The system will allow the shift	MH	High	Done	
33	Lilipioyee	'		IVIII	Iligii	Done	
			manager to manage his workers.				
36	Employee	NF		NTH	⊔iah	Done	
50	Employee	INF	The default system's roles will consist of: HR manager, Cash	INI	High	Done	
			registry manager, Storekeeper, Driver.				
37	Employee	F	1	NITU	Love	Dono	
5/	Employee	Г	The system will support	NTH	Low	Done	
			adding additional roles.				

38	Employee Employee	F	Each worker will have his own qualifications and permissions to use specific functionality of the system (e.g. the Storekeeper won't be able to work in the registry or manage employees like the HR manager). The HR manager will be able	МН	High High	Done	
			to choose which roles are needed for each shift.				
40	Employee + Delivery	F	The system will allow adding drivers to shifts.	MH	Low	Done	
41	Delivery	F	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.	МН	High	Done	
42	Delivery	F	Upon adding a new delivery site, the system will generate a unique id for it.	МН	Low	Done	
43	Delivery	F	Deleting a site will be possible only if there aren't any upcoming deliveries which have this site as their origin or destination.	МН	Low	Done	
44	Delivery	F	The user will be able to view the different delivery sites of a specific delivery zone.	NTH	Low	Done	
45	Delivery	F	The user will be able to search a site according to its id number.	NTH	Low	Done	
46	Delivery	F	The system must support the management (adding, deleting, viewing, editing) of Super-Lee's trucks: plate number, model, max weight.	МН	High	Done	
47	Delivery	F	The system will display an error if the user is trying to edit the max weight of a truck when it is assigned to an upcoming delivery with a driver whose license type does not allow driving a truck with the new max weight.	МН	High	Done	

48	Delivery	F	The user will be able to view the different trucks ordered according to their max weight.	NTH	Low	Done	
49	Delivery	F	Deleting a truck will be possible only if there aren't any upcoming deliveries which this truck is assigned to.	МН	Low	Done	
50	Delivery	F	The user will be able to search a truck according to its plate number	NTH	Low	Done	
51	Delivery	F	The system must support adding a new upcoming delivery: start time, end time, truck, driver, origin site and destination site.	МН	High	Done	
52	Delivery	F	The system will display an error if the start time of the delivery is *invalid	МН	High	Done	
53	Delivery	F	The system will display an error if the end time of the delivery is *invalid	МН	High	Done	
54	Delivery	NF	Start and end time of a delivery will be in the format: dd-MM-yyyy HH:mm	NTH	Low	Done	
55	Delivery	F	The origin site of a delivery may be a "Super-Li" branch or a supplier's warehouse.	МН	Low	Done	
56	Delivery	F	A destination site of a delivery must be a "Super-Li" branch.	МН	Low	Done	
57	Delivery	F	A delivery must contain at least one destination.	МН	Low	Done	
58	Delivery	F	When an upcoming delivery is added the system will generate a unique identifier for it.	МН	Low	Done	
59	Delivery	F	The system will display an error if the 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).	МН	Low	Done	
60	Delivery & Employee	F	The system will display an error if the driver the user is trying to reserve to an upcoming delivery is not	МН	Low	Done	

			assigned to a shift at the time				
C1	Daliman		of the delivery	N ALL	1	Dana	
61	Delivery	F	The system will display an	MH	Low	Done	
			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				
62	Delivery	F	completely. The system will display an	MH	Low	Done	
02	Delivery	r	error if the user is trying to	IVIII	LOW	Done	
			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.				
63	Delivery	F	The system will display an	MH	High	Done	
	Delive, y		error when the user is trying			20110	
			to edit the start time of an				
			upcoming delivery if the new				
			date is *invalid				
64	Delivery	F	The system will display an	MH	High	Done	
	•		error when the user is trying				
			to edit the end time of an				
			upcoming delivery if the new				
			date is *invalid				
65	Delivery	F	The system must support the	MH	High	Done	
			editing of an upcoming				
			delivery: start time, end time,				
			truck, driver, and origin site.				
66	Delivery	F	The system will display an	MH	High	Done	
	&		error if the user is trying to				
	Employee		replace the driver of an				
			upcoming delivery if the new				
			driver is not assigned to a				
			shift at the time of the				
C7	Dalivani	F	delivery Destinations can be added to	N ALL	1 0 1 1	Dana	
67	Delivery	F		MH	Low	Done	
68	Delivery	F	an upcoming delivery. Removing a destination from	MH	Low	Done	
06	Delivery	^r	an upcoming delivery will be	IVIT1	Low	Done	
			possible only if it is not the				
			only destination of the				
			delivery.				
69	Delivery	F	Items can be added to list of	MH	Low	Done	
	Delivery	'	items to be supplied to a	14111	2000	Done	
			certain destination of an				
			upcoming delivery.				
		l			<u> </u>		l .

70	Delivery	F	Items can be removed from the list of items to be supplied to a certain destination of an upcoming delivery.	МН	Low	Done	
71	Delivery	F	The quantity of a certain item to be supplied for a destination of un upcoming delivery can be edited.	МН	Low	Done	
72	Delivery	F	The system must support the deletion of an upcoming delivery.	МН	Low	Done	
73	Delivery	F	The user will be able to view the list of upcoming deliveries.	МН	Low	Done	
74	Delivery	F	The user will be able to search an upcoming delivery according to its id number.	NTH	Low	Done	
75	Delivery	F	When a delivery arrives at its destination the user will be able to "complete" the delivery.	МН	Low	Done	
76	Delivery	F	A delivery can be "completed" only if the truck's actual weight is updated to be greater than 0.	МН	Low	Done	
77	Delivery	F	Completing a delivery will add the record of the delivery to the Delivery Archive.	МН	Low	Done	
78	Delivery	F	Completing a delivery will remove it from the upcoming deliveries list.	МН	Low	Done	
79	Delivery	F	The system will display an error if the actual truck weight is higher than the max weight of the truck.	МН	Low	Done	
80	Delivery	F	A record of a completed delivery will contain the id of the delivery, driver's id, truck's plate number, start and end time of the delivery, the origin site's id, the truck's actual weight, and for each of the destination- their id and a list of the items to be delivered to that destination and the quantity from each item.	МН	Low	Done	
81	Delivery	F	A record of a completed delivery cannot be deleted.	МН	Low	Done	

82	Delivery	F	A record of a completed delivery cannot be modified.	МН	Low	Done	
83	Delivery	F	The user will be able to view the Delivery Archive.	МН	Low	Done	
84	Delivery	F	The user will be able to search a completed delivery according to its id number.	NTH	Low	Done	
85	Delivery & Employee	F	The System will display an error if the user is trying to delete a driver that is assigned to an upcoming delivery	МН	Low	Done	
86	Delivery & Employee	F	The system will display an error if the user is trying to edit a driver's license type when the driver is assigned to an upcoming delivery with a truck which the new license type doesn't allow him to drive.	МН	Low	Done	

Inventory

System assesments - inventory:

1	The minimum quantity of a product determined by the inventory manager
2	The inventory manager issue a report by manually inserting an input
3	Only the inventory manager have access to the system
4	Each products can have up to 3 categories, which managed by the inventory manager

Terms:

Explain changes:

#	Topic	Description
1	first requirement	the description was too ambiguous about when to send the reports, and also the client asked the system to send reports and not notifications.
2	second requirement	adding which information the system keeps about each product
3	6th requirement	we split this requirement to requirements 6-8 to explain what kind of reports the system should generate, moreover, the reports must include all the information about the products as described in the second requirement.
4	9th requirement (used to be the 7th)	risk changed to HIGH just like requirements 6-8 because they all talk about the same part of functionality in the system.
5	11th requirement	adding when this functionality is being called to make the requirement more clear and more specific.

suppliers

System assessments - suppliers:

1	Discounts - Discount is added by the user that is adding the supplier to the system. Discounts can be
	added for each item (after specifying the discount amount and item quantity for which the discount
	will be activated).
2	Orders - We make an Order object in the system and store all the order details in the system. We do
	not manage money or money transfers.
3	Supplier catalog – we can order every item in the supplier's catalog.
4	Items – different suppliers can supply the same item.
5	Out-of-stock items - The inventory manager will start the process of checking the out-of-stock items
	and send them to the supplier module.
6	Inventory & Supplier integration - Inventory module shouldn't know about the supplier module and
	should not care.

Terms:

#	Term	Description	
1	Supplier	The person/company that supplies the store's items so the store can sell those items.	
2	Order	The agreement of a said supplier to deliver (by himself of by SuperLi deliveries) items	
		that are in the agreement.	
3	Quantity	The contract for each supplier that contains: the supplier's catalog, prices and	
	agreement	discounts.	
4	Routine	The agreement of a said supplier to deliver (by himself of by SuperLi deliveries) items	
	order	that are in the agreement on said days each week.	
5	Contact	The person that SuperLi can call for communicating with a given supplier.	

Explain changes:

<u>#</u>	<u>Title</u>	<u>Description</u>
1	Routine Order	We added a new type of order – routine order. It's described in the terms
		section.
2	Item ID	We now identify items by the pair of item name and item producer. This
		combination is unique to each item.
3	Quantity	Because of the change of #2, we now have 1 less hashmap in the QA class while
	agreement	the functionality remains the same.

Employees

System assessments - employees:

ID	Topic	Issue	Answer
1.	Roles	What roles will exist in the system by default?	The system will initially have the following roles: HR manager, Cashier, Driver, Branch Manager, Shift Manager, Stock Clerk, Warehouse Worker, Cleaner, Inventory Manager Adding/removing roles will be implemented.
2.	Workers	Which workers should be on every shift?	Each shift needs to have: Cashier, Warehouse Worker, Stock Clerk, Driver. Management staff – branch manager, HR manager, inventory manager - work only in DAY shifts.
3.	Availability of functionality	Which parts of the system can each employee use?	HR manager can view and employee data, view and manage qualifications. Branch manager can manage his branch, shifts on his branch and view qualifications.
4.	Adding shift	What data about an employee should the branch manager see while adding employees to a shift?	He will see their names and how many DAY or NIGHT shifts (depends on the current shift) the have already made.
5.	Branches	Can the branches work with the same system?	Yes
6.	Shifts	Can a shift be opened without all workers that must be on the shift?	No
7.	Multiple jobs	Can an employee fill several roles during the shift?	Yes

Terms:

ID	Term	Description
1.	Bank account details	Consist of bank id, branch id, account id, bank name, branch name, account owner name
2.	Worker/Employee	A person that works in SuperLi
3.	Role/Job	A position of an employee at work
4.	Working hours	A time interval that an employee adds into the system to mark the time when he can work

Delivery

System assessments - delivery:

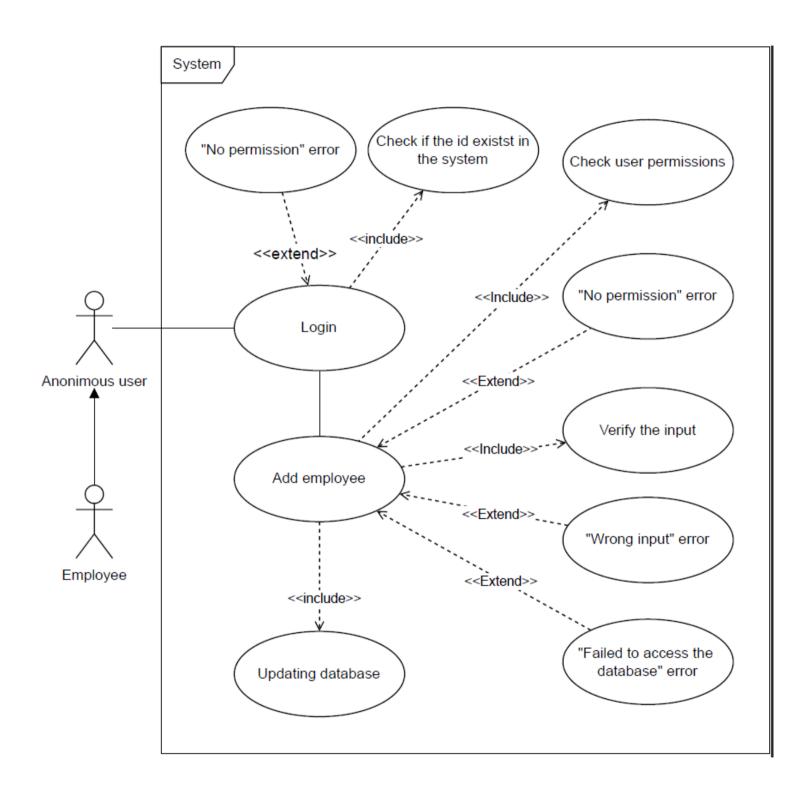
ID	Topic	Issue	Answer
1	Delivery	What delivery zones are there?	North, Center, South
	zones		
2	Delivery	How do the delivery zones limit the	They don't. The user can view the delivery zone
	zones	reservation of deliveries?	of every site for easier and reasonable planning
			of the delivery
3	Truck's	What is the unit of measurement for a	kg
	weight	truck's weight?	
4	Actors	Who are the relevant actors?	Delivery coordinator
5	Delivery	When can a delivery take place?	A delivery can take place within a single shift
	time		

Terms:

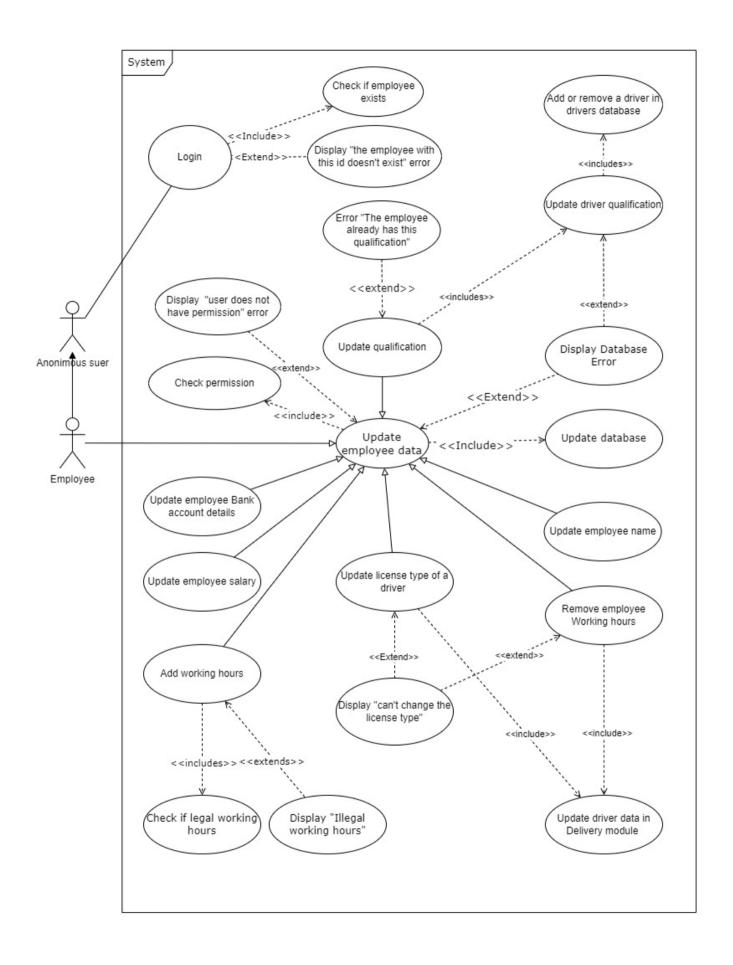
ID	Term	Description
1.	Delivery	Carries items from an Origin site to a Destination site.
2.	Site	Either a supplier's warehouse or a Super-Li branch.
3.	Origin	Either a supplier's warehouse or a Super-Li's branch.
4.	Item	A product supplied by a Super-Lee's supplier.
5.	Destination	A Super-Li's branch.
6.	License Type	C1- permits driving a truck with max weight is equal or below 12000 kg
		C- permits driving all trucks
7.	Invalid delivery start	Date has passed.
	time	
8.	Invalid delivery end time	 End time is earlier then start time
		2) Is in different shift than start time

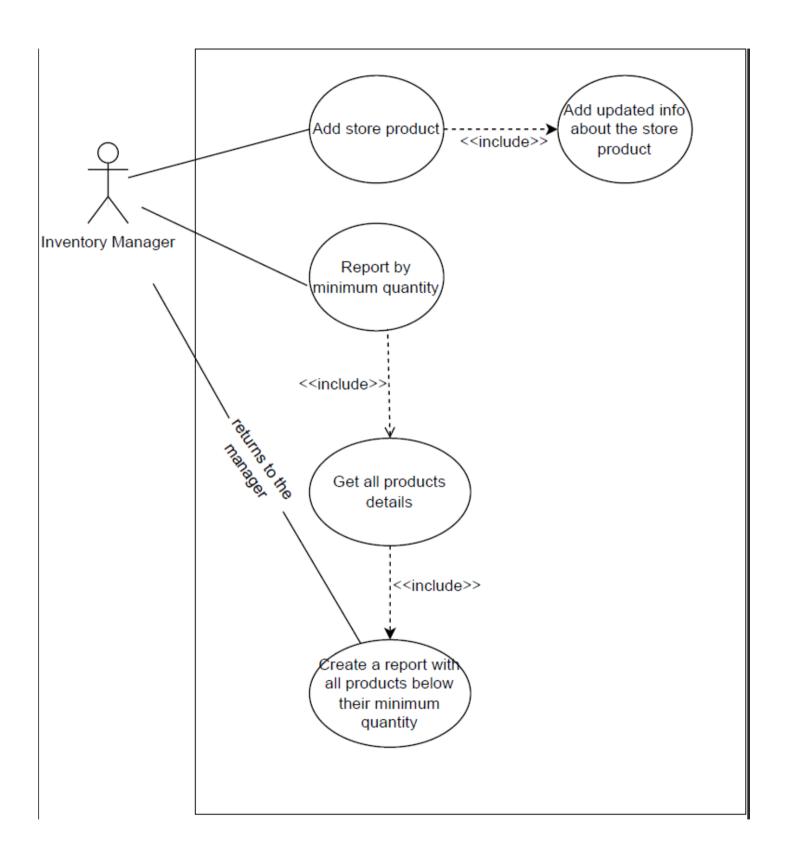


a) Adding new employee

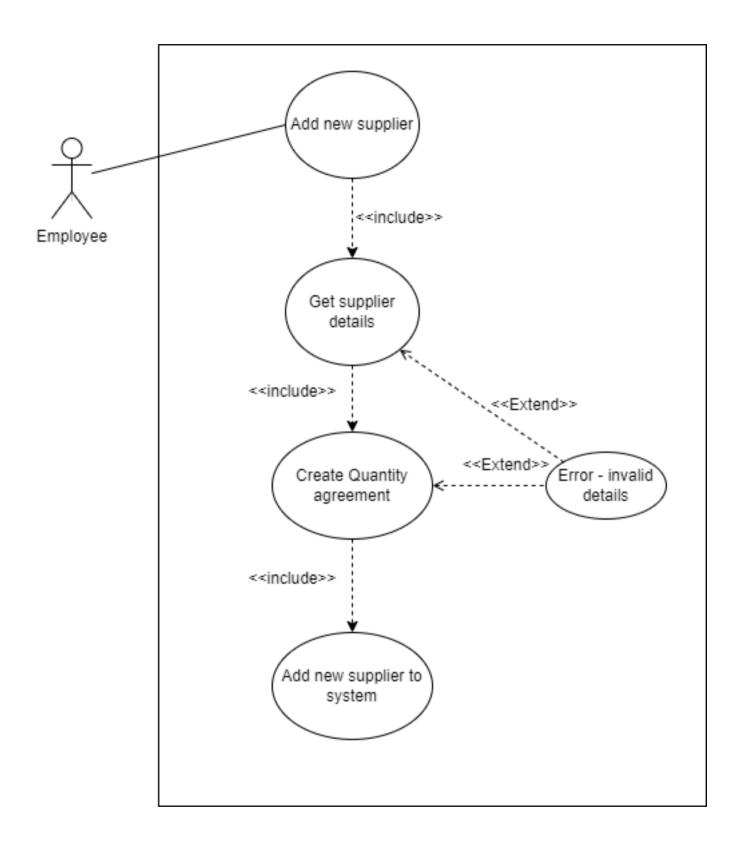


b) **Updating employee data**

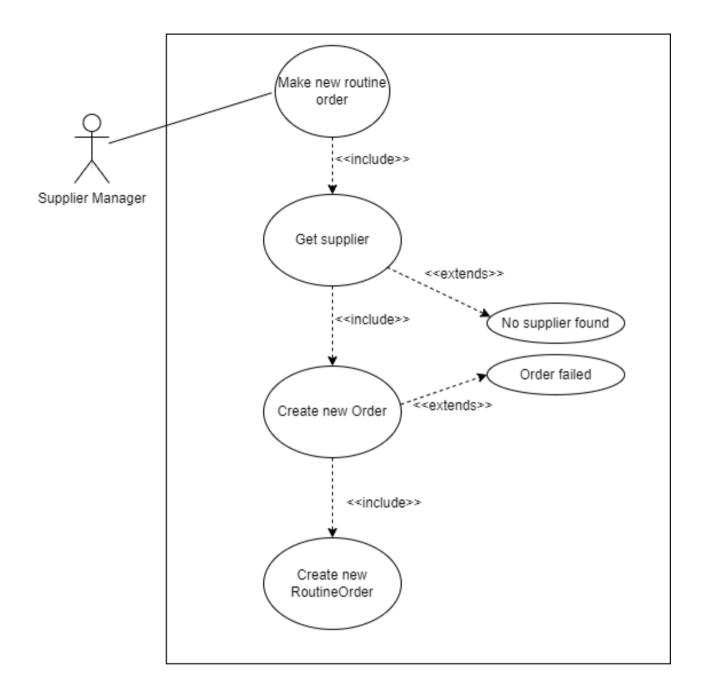




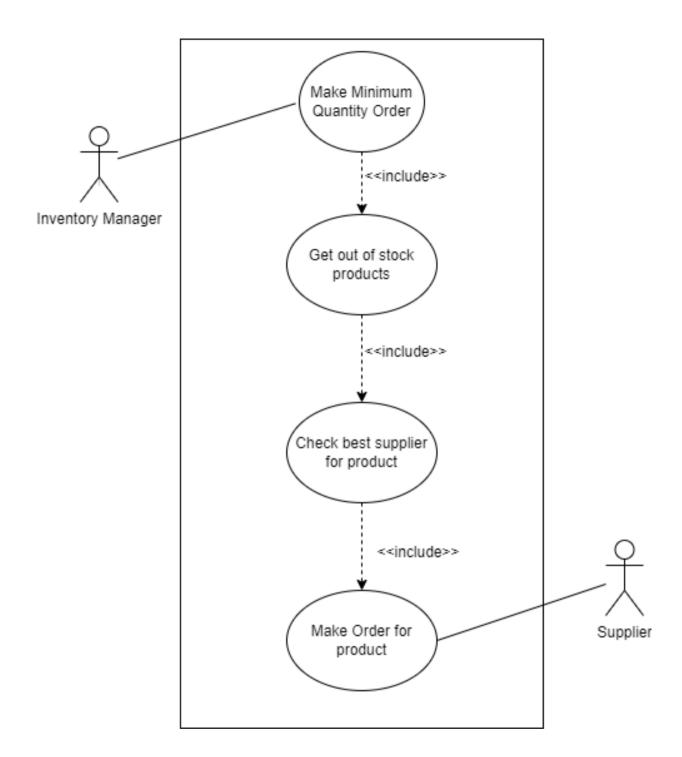
d) Add new supplier



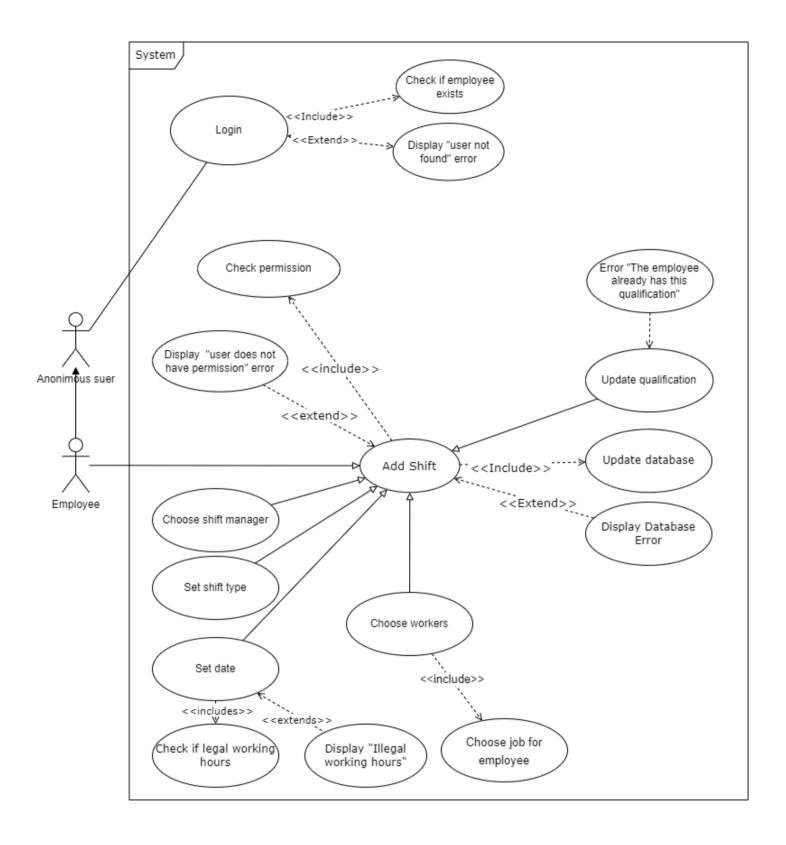
e) Make new routine order



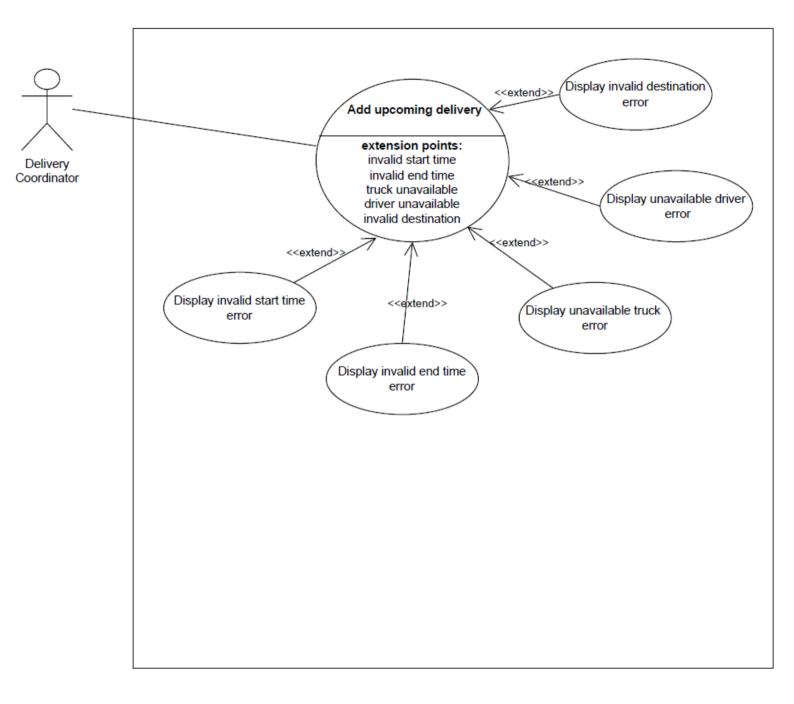
f) Make minimum quantity order



g) Adding a new shift



h) Add Upcoming Delivery



Use Case (g)- Scheduling workers for the shift - description

Use case name	Scheduling workers for the shift
Textual Description	The employee wants to schedule a shift. To do this he has to choose a worker for each role that has to be filled on the shift.
List of Actors	Employee of SuperLi supermarket
Pre-conditions	1.The shift can't be scheduled already 2.The shift can't be opened with the date a day (or more) prior to current date 3.There should be at least one worker that is qualified to work for each of these roles: cashier, warehouse worker, stock clerk, truck driver, branch manager, inventory manager. If it's a DAY shift there also should be an employee that can work as branch manager and inventory manager
Post-conditions	1.A new shift will be opened (nothing if pre-conditions were not met)
Main success scenario	1.A worker chooses "add shift" in the shift management menu 2. The system checks if he has a permission to add shift 3. The worker is prompted to choose the branch, date of the shift, type of the shift, choose a worker for each role to fill (explained above) 4. The worker receives a success message from the system

Alternatives/Extensions

1.If an employee doesn't have the permission to manage shifts he will receive an error message

2.If the shift is scheduled already the shift will not be opened and the employee will receive an error message

3.If it is to late to add the shift (explained above) the employee will receive an error message

```
Main case scenario + alternatives in pseudo code
Login:
Int employeeldnumber = readline();
openShift(idNumber);
if(!hasPermissionToOpenAShift(isNumber){
        print("you don't have permission to open a shift")
       return;
Map<Employee, List<Qualification> workers = new*;
List<Qualification> mustHaveRoles = {"shiftManager", "Cashier", "Driver" ...} //explained above
for each role in mustHaveRolesList:
       List<Employee> qualifiedEmployees = getEmployeesWithQualification(Qualification);
       print(qualifiedEmployees)
       int index = readline();
       Employee e = qualifiedEmployees[index];
       if(workers.containsKey(e))
               workers.get(e).add(role)
        else
               workers.put(qualifiedEmployees[index], new List<Qualification>)
Date date = readline();
If(date > Date.today)
        Print("the date is illegal")
        Return;
Int branchNumber = realine();
typeOfShift = readline();
addShift(branchNumber, workers, date, shiftType);
return;
```

Use Case (h)- Add upcoming delivery- description

Use case name	Add upcoming delivery	
Textual Description	A delivery coordinator adds a new upcoming delivery to Super-Lee's deliveries system.	
List of Actors	Delivery coordinator.	
	(For simplicity the term "User" will be used in the Main success scenario and the Alternatives/Extensions sections)	
Pre-conditions	Non.	
Post-conditions	A new upcoming delivery is added to the deliveries system.	
Main success scenario	 User selects option number 3 at the Upcoming Deliveries Menu to add a new upcoming delivery. User enters the delivery's start time. User enters the delivery's end time. The system will display a list of Super-Lee's trucks. The user will enter the plate number of the desirable truck. The system will display a list of Super-Lee's drivers. The user will enter the id of the desirable driver The system will display a list of Super-Lee's sites. The user will enter the id of the desirable origin site. The system will display a list of Super-Lee's branch sites. The user will enter the id of the desirable destination. The newly created delivery is added to the deliveries system. 	
Alternatives/Extensions	*) a. On Upcoming delivery addition failure:	
	The system will display an error message	

2. The user will return to Upcoming Deliveries Menu.

For steps 2',3':

- *) a. while date has passed:
 - 1. The system will display an error message.
 - 2. The user will enter a new date.
- 5') a. while a truck with the entered plate number does not exist:
 - 1. The system will display an error message.
 - 2. The user will enter a new plate number.
- 7') a. while a driver with the entered id does not exist:
 - 1. The system will display an error message.
 - 2. The user will enter a new id.

For steps 9',11':

- *) a. while a site with the entered id does not exist:
 - 1. The system will display an error message.
 - 2. The user will enter a new site id.
- 12') a. The driver is not assigned to a shift at the time of the delivery
 - 1. Upcoming delivery addition fails
 - b. End time is earlier then start time
 - 1. Upcoming delivery addition fails
 - c. Delivery starts and ends in different shifts
 - 1. Upcoming delivery addition fails
 - d. The driver doesn't have a license for the chosen truck
 - 1. Upcoming delivery addition fails

e. Truck is assigned to overlapping delivery
1. Upcoming delivery addition fails
f. Driver is assigned to overlapping delivery
1. Upcoming delivery addition fails
g. The destination site is not a branch site
1. Upcoming delivery addition fails

pseudo code:

- 1) User selects option number 3 at the Upcoming Deliveries Menu to add a new upcoming delivery.
- 2) User enters the delivery's start time.
 - a. while start time has passed
 - 1. Display an error message.
 - 2. The user enters the delivery's start time.
- 3) User enters the delivery's end time.
 - a. While end time has passed
 - 1. System displays an error message.
 - 2. The user enters the delivery's end time.
- 4) The system displays a list of Super-Lee's trucks.
- 5) The user enters the plate number of the desirable truck.
 - a. while a truck with the entered plate number does not exist in Super-Lee's deliveries system:
 - 1. The system displays an error message.
 - 2. The user enters a new plate number.
- 6) The system displays a list of Super-Lee's drivers.
- 7) The user enters the id of the desirable driver.
 - a. while a driver with the entered id does not exist in Super-Lee's deliveries system:
 - 1. The system displays an error message.
 - 2. The user enters a new id number.
- 8) The system displays a list of Super-Lee's sites.
- 9) The user enters the id of the desirable origin site.
 - a. while a site with the entered id does not exist in Super-Lee's deliveries system:
 - 1. The system displays an error message.
 - 2. The user enters a new site id.
- 10) The system displays a list of Super-Lee's branch sites.
- 11) The user enters the site id of the desirable destination site
 - a. While a site with the entered id does not exist in Super-Lee's deliveries system:
 - 1. The system displays an error message.
 - 2. The user enters a new site id.
- 12) if one of the following occurs:
 - a. The driver is not assigned to a shift at the time of the delivery
 - b. End time is earlier than start time

- c. Delivery starts and ends in different shifts
- d. The driver doesn't have a license for the chosen truck
- e. Truck is assigned to overlapping delivery
- f. Driver is assigned to overlapping delivery
- g. The destination site is not a branch site
 - 1. The system displays an error message.
 - 2. The user will return to the new upcoming delivery menu.

Else the newly created delivery is added to the deliveries system.