Ben-Gurion University
of the Negev

Tuki

Requirements specification

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1. Functional Requirements

ID	Module	Description	Priority	Risk	Status
1.	Supplier	The system **MUST** support adding suppliers cards.	MH	Low	Done
2.	Supplier	The system **MUST** support supplier's personal details saving.	MH	Low	Done
3.	Supplier	The system **MUST** support supplier's contract details saving.	MH	Low	Done
4.	Supplier	The system **MUST** support suppliers deletion.	MH	Low	Done
5.	Supplier	The system **MUST** support supplier's personal details updating.	MH	Low	Done
6.	Supplier	The system **MUST** support supplier's contract details updating.	MH	Low	Done
7.	Supplier	The system **MUST** keep track of suppliers orders history.	MH	Low	Done
8.	Supplier	The system **Can** compare and offer cheaper products.	NTH	High	Done

Appendix A   Terms

Table 1:   Terms

#	Term	Description
1.	Supplier	Primary actor in supplier module. Has supplier-card and represents a supplier who interacts with *Super-Li*.
2.	Supplier Card	Holds supplier's personal and contract details.
3.	Supplier Personal Details	Includes name, private company number, bank account number and terms of payment.
4.	Supplier Contract Details	Includes terms of delivery (permanent/not permanent days or not delivering), items included in contract, price and quantities list (if has).
5.	Suppliers Orders History	Includes items and its catalog number used by supplier.

Appendix B   Open Questions

Table 2:   Open Questions

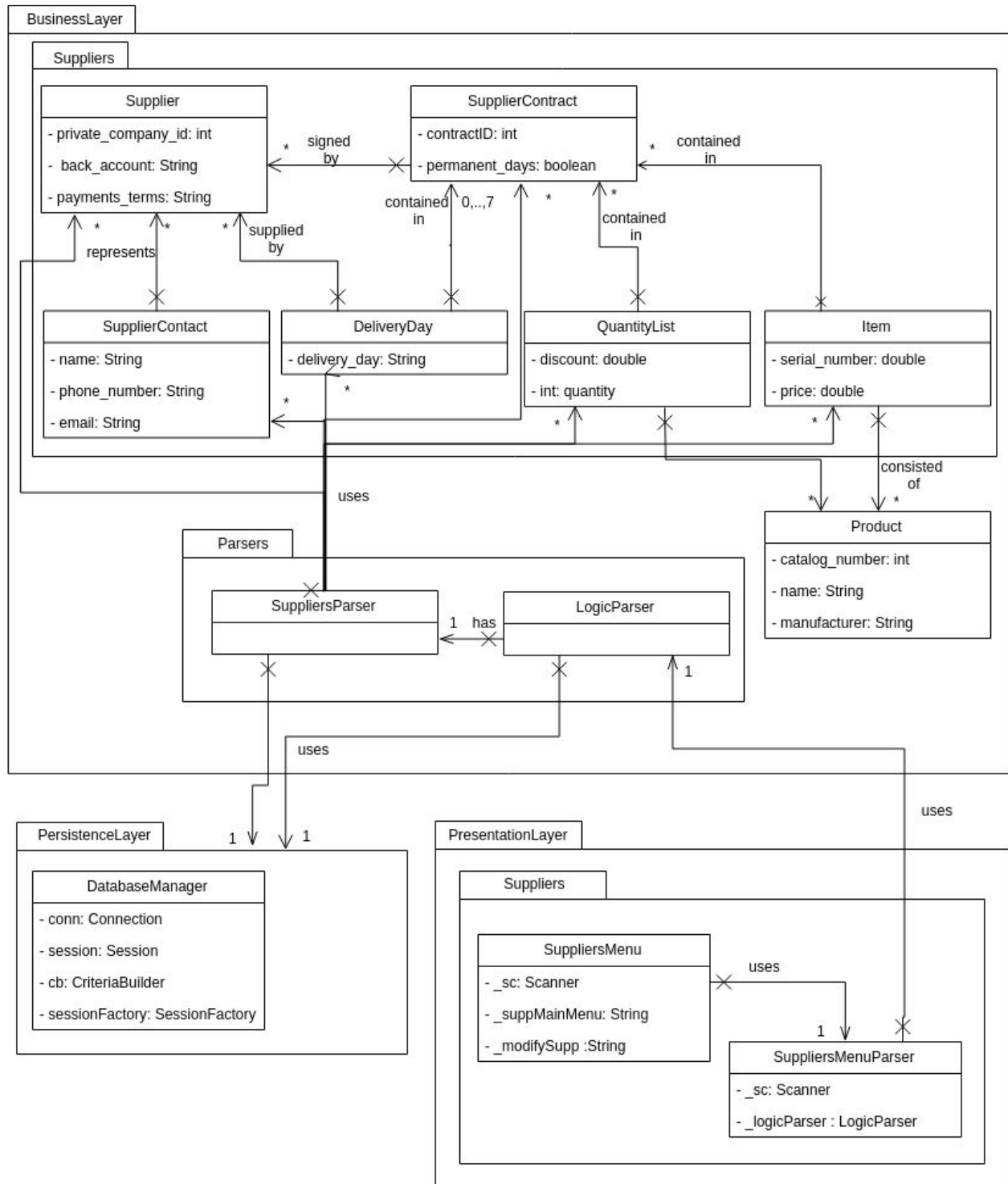| #	Topic	Issue	Decision
1.	Contacts modification	Should the system support adding, modifying and removing contacts?	Yes
2.	Suppliers modification	Should the system support supplier's details modification?	Yes

Appendix C   Questions That Affect Implementation

Table 3:   Questions that affect implementation

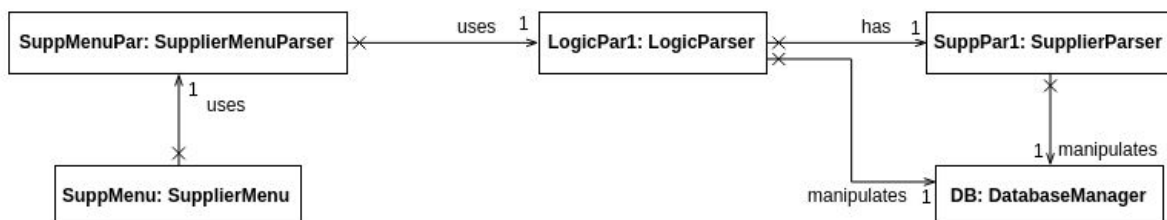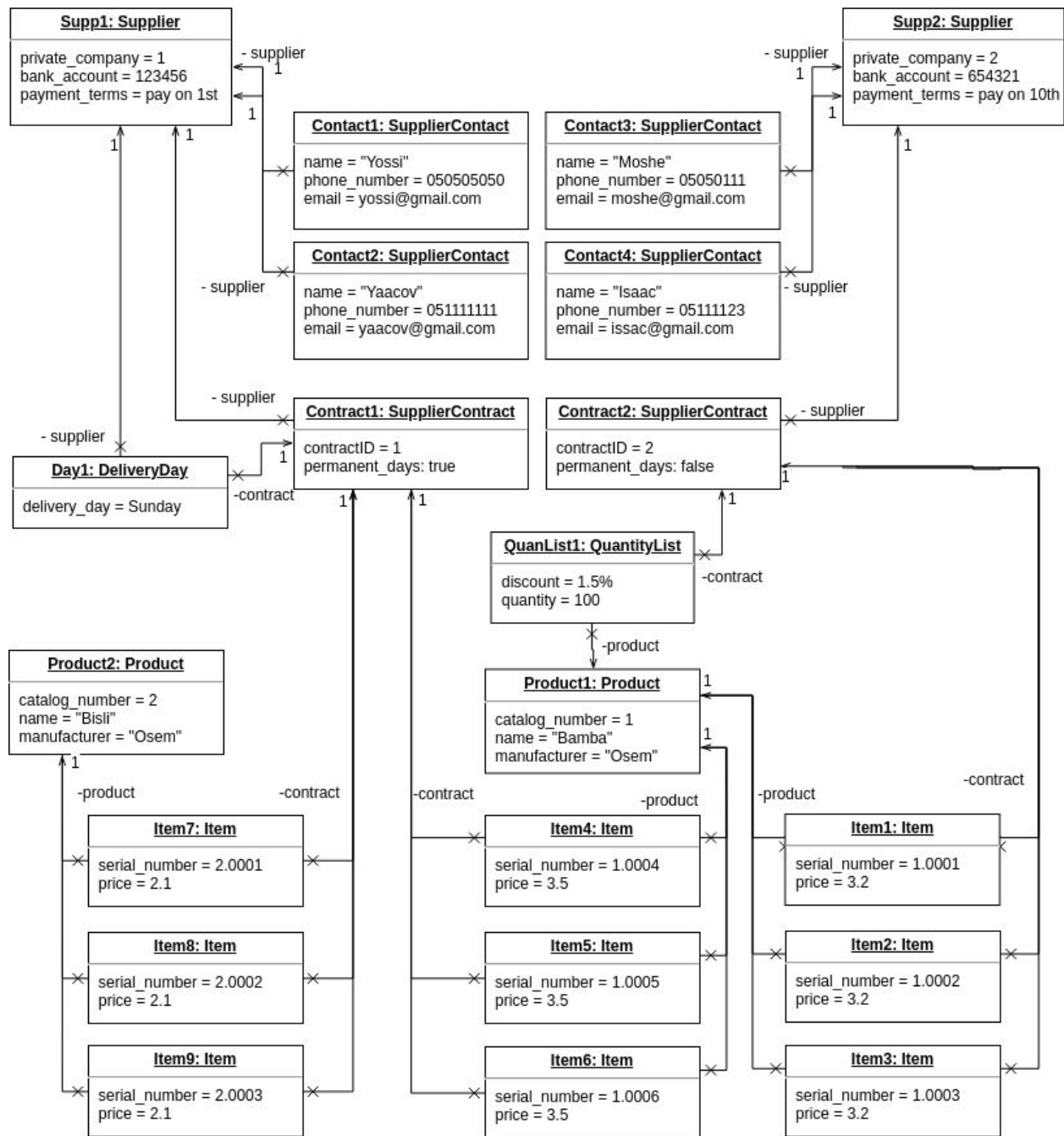| #	Topic	Issue
1.	Suppliers delivery days	Delivery days are mentioned in contracts, modifying them means a new contract or just a contract modification?
2.	Contracts with suppliers	How long is the contract? Does it last for years? months?
3.	Multiple contact appearances	Is it possible that a certain contact works in more than one company? meaning that he might appear more than once in contacts list, for each company.

2. UML Diagram

3. Use-Cases and Object Diagram

Use-case 1:
Suppose the client met a new supplier and they have became to an agreement that the supplier supplies 3 "Bisli" and 3 "Bamba" of "Osem". The supplier will deliver on Sundays and it has no quantity list agreement in the contract. The supplier has two contacts as well, named Yossi and Yaccov. As we can see in our Object-Diagram, Supp1 describes this certain supplier with Contract1, Day1 and the appropriate items.

Use-case 2:
Suppose the client met a new supplier and they have became to an agreement that the supplier supplies 3 "Bamba" of "Osem". The supplier and the client became to an agreement that for each 100 "Bamba" units sold, the client gets a discount of 1.5%. The supplier has two contacts as well, named Moshe and Isaac. As we can see in our Object-Diagram, Supp2 describes this certain supplier with Contract2, QuanList1 and the appropriate items.
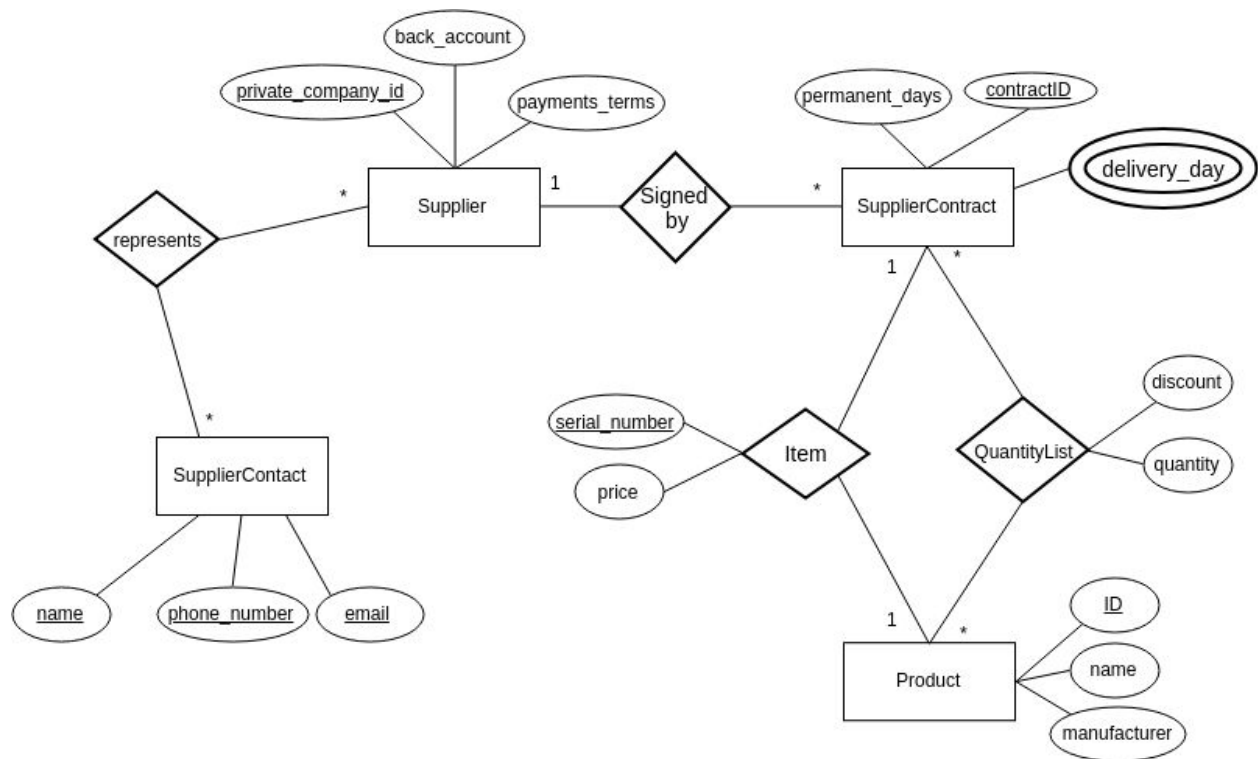
** Please notice that the Object-Diagram describes both use-cases described below separated by left and right with the appropriate objects.

Supp1: Supplier

private_company = 1
bank_account = 123456
payment_terms = pay on 1st

- supplier
1

- supplier
1

1

1

Contact1: SupplierContact

name = "Yossi"
phone_number = 050505050
email = yossi@gmail.com

Contact3: SupplierContact

name = "Moshe"
phone_number = 05050111
email = moshe@gmail.com

Supp2: Supplier

private_company = 2
bank_account = 654321
payment_terms = pay on 10th

- supplier
1

1

1

Contact2: SupplierContact

name = "Yaacov"
phone_number = 051111111
email = yaacov@gmail.com

Contact4: SupplierContact

name = "Isaac"
phone_number = 05111123
email = issac@gmail.com

- supplier

- supplier

Contract1: SupplierContract

contractID = 1
permanent_days: true

Contract2: SupplierContract

contractID = 2
permanent_days: false

- supplier

- supplier

1

Day1: DeliveryDay

delivery_day = Sunday

1
-contract

1

1

1

QuanList1: QuantityList

discount = 1.5%
quantity = 100

-contract

-product

Product2: Product

catalog_number = 2
name = "Bisli"
manufacturer = "Osem"

1

Product1: Product

catalog_number = 1
name = "Bamba"
manufacturer = "Osem"

1

1

-product
-contract

-contract

-product

-product

-contract

Item7: Item

serial_number = 2.0001
price = 2.1

Item4: Item

serial_number = 1.0004
price = 3.5

Item1: Item

serial_number = 1.0001
price = 3.2

Item8: Item

serial_number = 2.0002
price = 2.1

Item5: Item

serial_number = 1.0005
price = 3.5

Item2: Item

serial_number = 1.0002
price = 3.2

Item9: Item

serial_number = 2.0003
price = 2.1

Item6: Item

serial_number = 1.0006
price = 3.5

Item3: Item

serial_number = 1.0003
price = 3.2

SuppMenuPar: SupplierMenuParser

uses   1

LogicPar1: LogicParser

has   1

SuppPar1: SupplierParser

1
uses

SuppMenu: SupplierMenu

manipulates 1

1 manipulates

DB: DatabaseManager

3. ERD Diagram

Version History

Table 4:   Version History

Date	Author	Remarks
21/03/2019	Avishai and Alex	Requirements analysis - first draft
23/03/2019	Avishai and Alex	Questions added
25/03/2019	Avishai and Alex	New questions added according to answers
28/03/2019	Alex	UML Diagram
29/03/2019	Avishai	Object Diagram and Use-Cases
31/03/2019	Alex	ERD Diagram