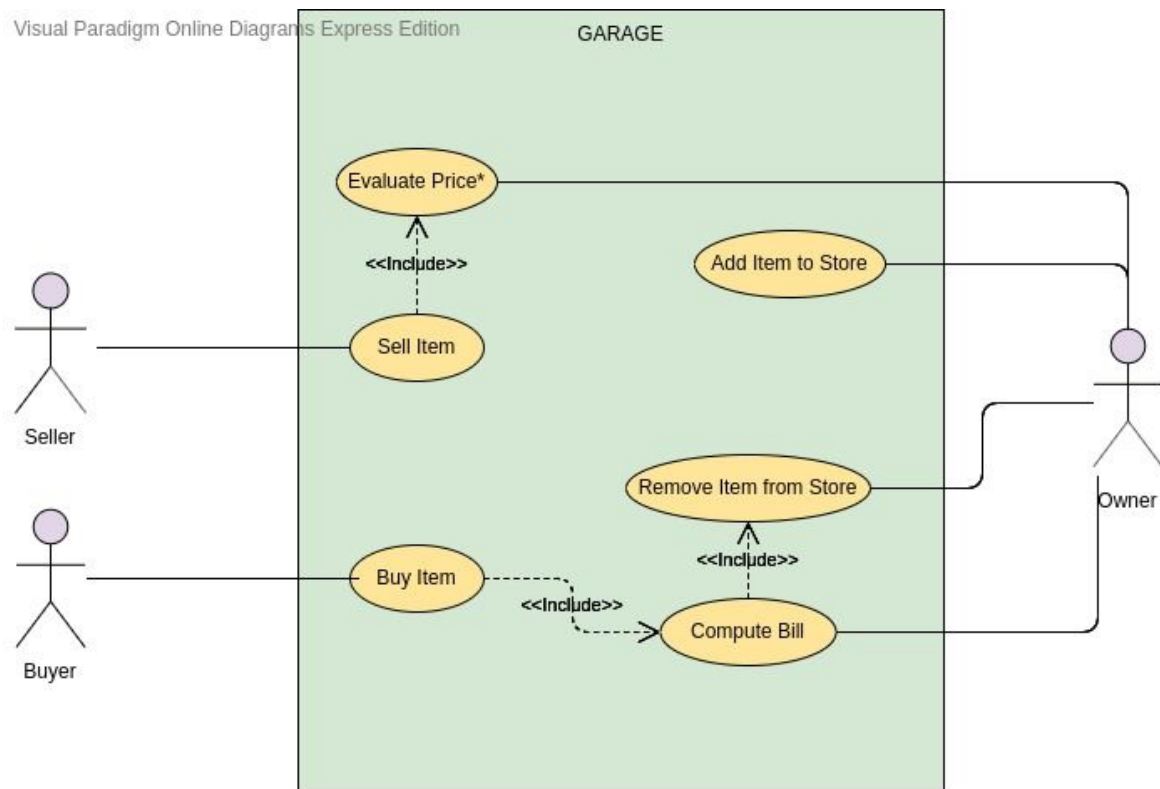# GARAGE

A mini database management system for an automobile stock

Gandharv Suri
IMT2017017

Introduction

A mini database management system, for an automobile Garage, where a customer can buy any amount of items, as well as sell. The DBMS, maintains the quantity of items in stock and bills the items.
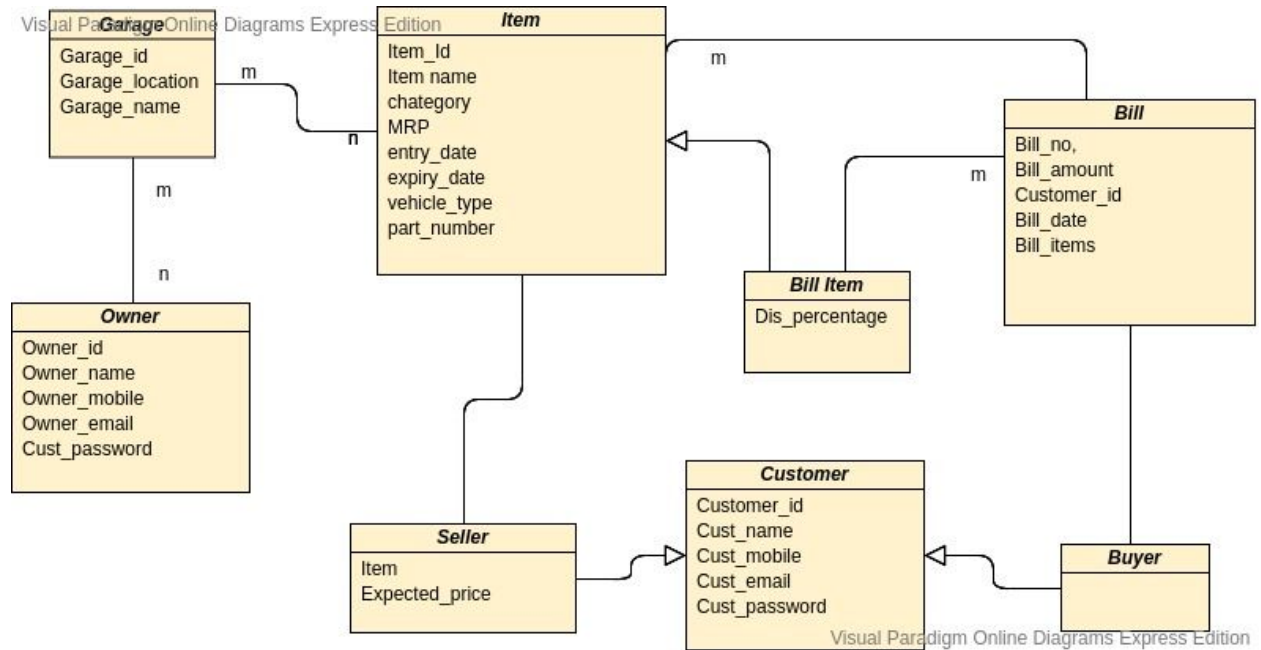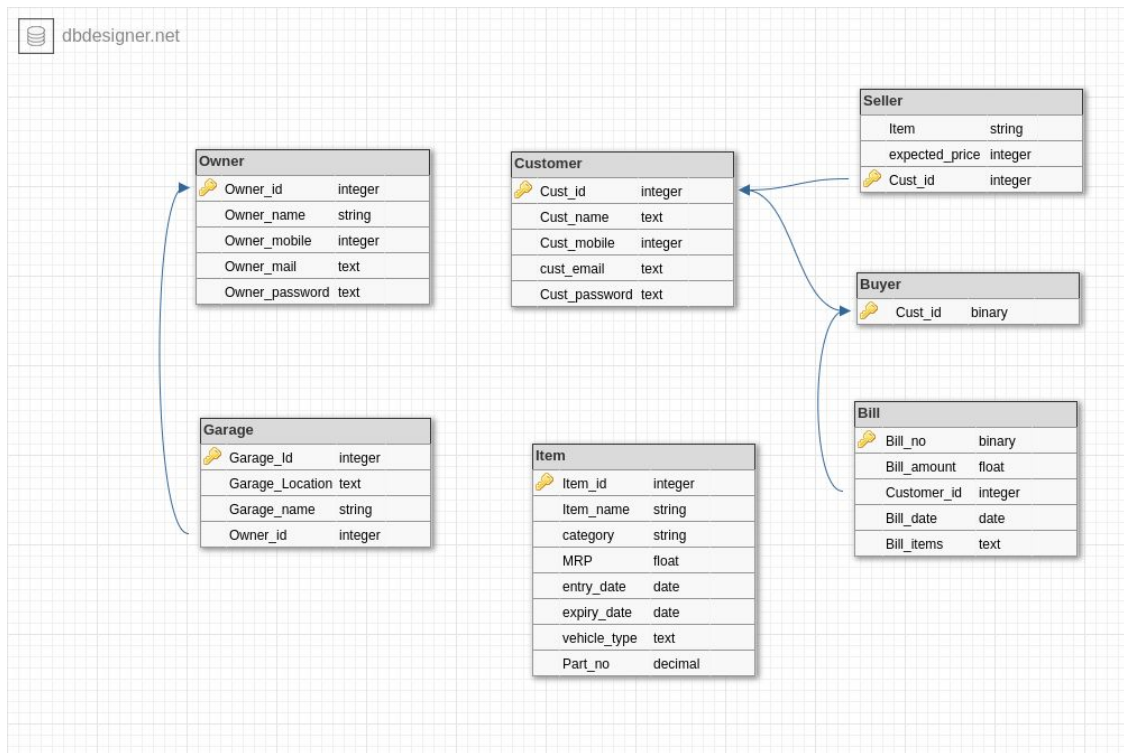
UML Diagram

GARAGE

Evaluate Price*

<<Include>>

Add Item to Store

Sell Item

Seller

Remove Item from Store

Owner

<<Include>>

Buy Item

<<Include>>

Compute Bill

Buyer

* = To be implemented in later version

Class Diagram

Garage
- Garage_id
- Garage_location
- Garage_name

m

Item
- Item_Id
- Item name
- chategory
- MRP
- entry_date
- expiry_date
- vehicle_type
- part_number

n

m

n

Owner
- Owner_id
- Owner_name
- Owner_mobile
- Owner_email
- Cust_password

m

Bill
- Bill_no,
- Bill_amount
- Customer_id
- Bill_date
- Bill_items

m

Bill Item
- Dis_percentage

Seller
- Item
- Expected_price

Customer
- Customer_id
- Cust_name
- Cust_mobile
- Cust_email
- Cust_password

Buyer

Table Description

Owner
🔑	Owner_id	integer
	Owner_name	string
	Owner_mobile	integer
	Owner_mail	text
	Owner_password	text

Customer
🔑	Cust_id	integer
	Cust_name	text
	Cust_mobile	integer
	cust_email	text
	Cust_password	text

Seller
	Item	string
	expected_price	integer
🔑	Cust_id	integer

Buyer
🔑	Cust_id	binary

Garage
🔑	Garage_Id	integer
	Garage_Location	text
	Garage_name	string
	Owner_id	integer

Item
🔑	Item_id	integer
	Item_name	string
	category	string
	MRP	float
	entry_date	date
	expiry_date	date
	vehicle_type	text
	Part_no	decimal

Bill
🔑	Bill_no	binary
	Bill_amount	float
	Customer_id	integer
	Bill_date	date
	Bill_items	text

Use Cases

Use case Id: 01
Use case Name: Add item
Use Case Description: Add an item to the stock of the garage.
Actors: Owner
Flow:
    Normal Flow: The owner calls the method to add a new item to the stock.
    Alternate Flow: If a customer wants to sell an item, and the item is approved, the method is called.

Use case Id: 02
Use case Name: Remove Item
Use case description: Remove the item from the stock of the garage.
Actors: Owner
Flow:
    Normal Flow: The owner can remove an item.
    Alternate Flow: When a customer buys an item, the product is automatically removed from the stock.

Use case Id: 03
Use case Name: Buy Item
Use case description: Add an item to the card/Bill to be bought.
Actors: Buyer
Flow:
    Normal Flow: The buyer selects an item and adds it to the billing list.

Use case id: 04
Use case Name: Sell Item
Use case description: Propose an item to be sold to the garage.
Actors: Seller
Flow:

Normal Flow: The seller proposes an item to be sold, with an expected price, which may be accepted or rejected by the owner.

Use case Id: 05
Use case Name: Compute Bill
Use case Description: Compute the total amount of items, after applying discounts if applicable.
Actors: Buyer
Flow:
       Normal Flow: Method called on buyer's confirmation that s/he is done.