# **GARAGE**

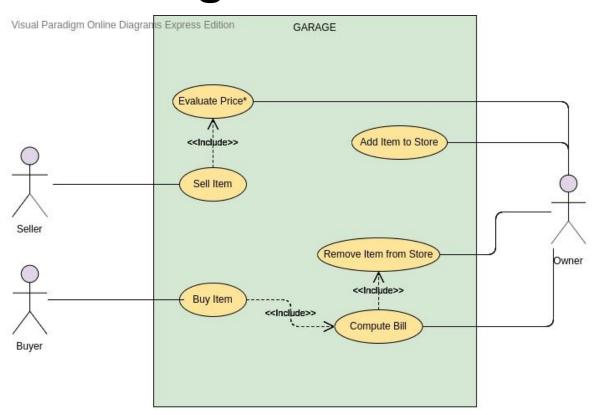
A mini database management system for an automobile store

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.

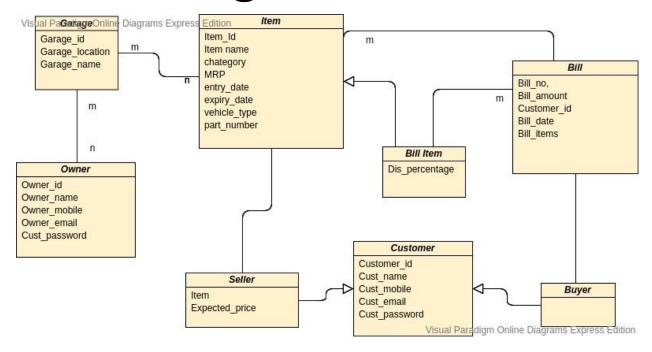
## **UML** Diagram



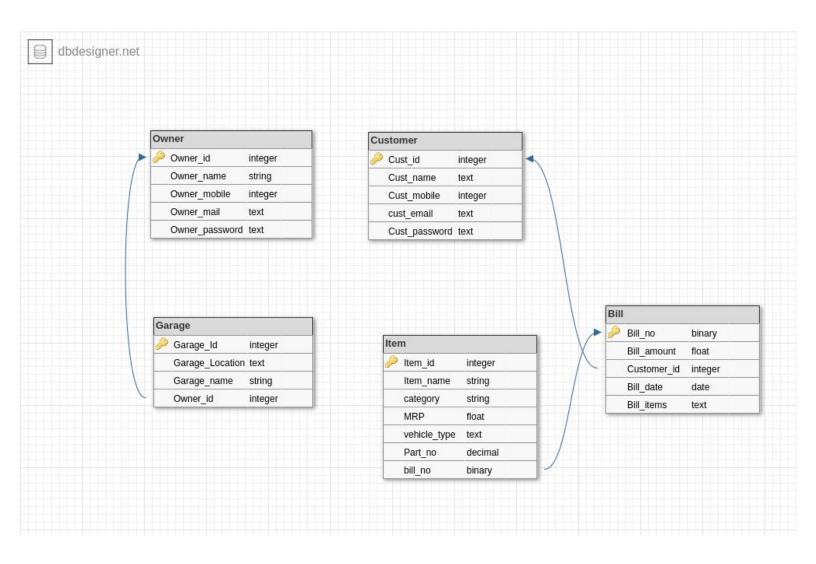
\* = To be implemented in later version

Visual Parallel Come Disagram Comes College

## **Class Diagram**



## **Table Description**



### **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.

**Exceptional Flow:** If the owner is not authenticated then the item won't be removed. **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

**Exceptional Flow:** If the owner is not authenticated then the item won't be removed. **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.

**Exceptional Flow:** If item name is not in the table, it won't be added to the cart.

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.

**Exceptional Flow:** If the item is not above the threshold price, it won't be added.

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. **Exceptional Flow:** If bill number is not present, then error will be thrown.

### **ScreenShots**

#### Add Item to store

```
Connecting to database...
Creating statement...
Please select one of the following oprions:
1, to add an item to the store.
2, to remove an item from the store.
3, to sell an item.
4, to add an item to the cart.
5, to compute your bill.
6, exit the store.

1
Item id
125
Item name
horn
Item Category
access
Item MRP
200
Part number
5
Item Vehicle Type
all
Please enter you owner id to authenticate.
1234
select owner_id from owner where owner_id = 1234;
Please select one of the following oprions:
1, to add an item to the store.
2, to remove an item from the store.
3, to sell an item.
4, to add an item to the cart.
5, to compute your bill.
6, exit the store.
```

#### Remove Item from store

```
Connecting to database...
Creating statement...
Please select one of the following oprions:
1, to add an item to the store.
2, to remove an item from the store.
3, to sell an item.
4, to add an item to the cart.
5, to compute your bill.
6, exit the store.
2
Item id
105
Please enter your owner id to authenticate.
1234
select owner_id from owner where owner_id = 1234;
select owner_id from owner where owner_id = 1234;
Please select one of the following oprions:
1, to add an item to the store.
2, to remove an item from the store.
3, to sell an item.
4, to add an item to the cart.
5, to compute your bill.
6, exit the store.
```

### **Buy Item**

```
Connecting to database...
Creating statement...
Please select one of the following oprions:
1, to add an item to the store.
2, to remove an item from the store.
3, to sell an item.
4, to add an item to the cart.
5, to compute your bill.
6, exit the store.
Item name
mirror
Please enter your customer id.
1501
select cust_id from customer where cust_id = 1501;
select cust_id from customer where cust_id = 1501;
Please select one of the following oprions:
1, to add an item to the store.
2, to remove an item from the store.
3, to sell an item.
4, to add an item to the cart.
5, to compute your bill.
6, exit the store.
```

#### Sell Item

```
Connecting to database...
Creating statement...
Please select one of the following oprions:
1, to add an item to the store.
2, to remove an item from the store.
3, to sell an item.
4, to add an item to the cart.
5, to compute your bill.
6, exit the store.
3
Item id
150
Item name
brake
Item Category
wheel
Item MRP
300
Part number
6
Item Vehicle Type
car
Please enter your customer id to authenticate.
1561
select cust id from customer where cust id = 1501;
Please select one of the following oprions:
1, to add an item to the store.
2, to remove an item from the store.
3, to sell an item.
4, to add an item to the cart.
5, to compute your bill.
6, exit the store.
```

### **Compute Bill**

```
Connecting to database...

Creating statement...

Please select one of the following oprions:

1, to add an item to the store.

2, to remove an item from the store.

3, to sell an item.

4, to add an item to the cart.

5, to compute your bill.

6, exit the store.

5

Enter Bill number:

1501

select * from item where bill_no = 1501;

Total : 1500

Please select one of the following oprions:

1, to add an item to the store.

2, to remove an item from the store.

3, to sell an item.

4, to add an item to the cart.

5, to compute your bill.

6, exit the store.
```