

PR2L (Final project)

SalesCar System

Description

We need to help managing a CarCompany by organizing its products and sales operations.

We need to build a program (Jfram Form) to help creating and organizing the CarCompany.

We should have the following functionalities in the CarCompany:

- 1.Add new Car: brand, Engine, model, year, horsepower, available quantity, price.
- 2.Each car has a list of parts , each part has (year, make, model, manufactured model) and these part may be sell alone without any thing.
- 3.View list of all available Car and their available quantities.
- 4.Add Customers to the CarCompany: name, contact name, email, and phone.
- 5.Create supplier (first name, last name, phone number, username, and password) that will be adding his product,car at the CarCopmany.

Create client:

Client has a first name, last name, and age and phone number.

After adding client information, the supplier can create new card for the client (who bought any product) to be able to get discounts by storing the following information (start date, end date, buying amount, membership type,and cost), the cost differs according to membership type:

- i. For silver client, when the client bought more than 2500000 have discount 2,5% .
- ii. For gold client, when the client bought more than 5000000 have discount 5%.

6. Make an order:

- a. Enter card number (if available) and check the availability of the card (expired or not), if not continue to step b.
- b. View list of all available products (that are not finished yet).
- c. Select a car or some part and wanted quantities.
- d. Submit order, the following should be taken into consideration:
 - i. We should store the information of order: date, card, products in the order, total cost that the member used for borrowing.
 - ii. Each time a product is sold, the available quantity will be decreased by one

7. The following are needed:

- a. View list of clients that have bought last month with more than 1000000 .
- b. View list of products that has low quantities (less than 10% of the desired quantity).
- c. View list of products that will finish soon (quantities less than 2).

Notes:

1. Insure good design and input validation.
2. Use the concepts of composition, inheritance and polymorphism in your project, Examples:
 - a. Inheritance and polymorphism: client, customer, supplier ... etc.
 - b. Composition: order and products, product and ..etc.

Assignment Details

1. 2 or 3 students per project.
2. Discussion day and deadline for (11-12-21-22) on SAT 5/6/2021.
3. Discussion day and deadline for (12-11-41-32) on MON 7/6/2021.

Good luck

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