Topic : Textile & Garment Management System

Group no : MLB_10.01_02

Campus : Malabe

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We declare that this is our own work and this Assignment does not incorporate without acknowledgment any material previously submitted by anyone else in SLIIT or any other university/Institute. And we declare that each one of us equally contributed to the completion of this Assignment.

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Introduction

Customers can give direct orders to designer, add or delete items in cart and buy them.

Classes

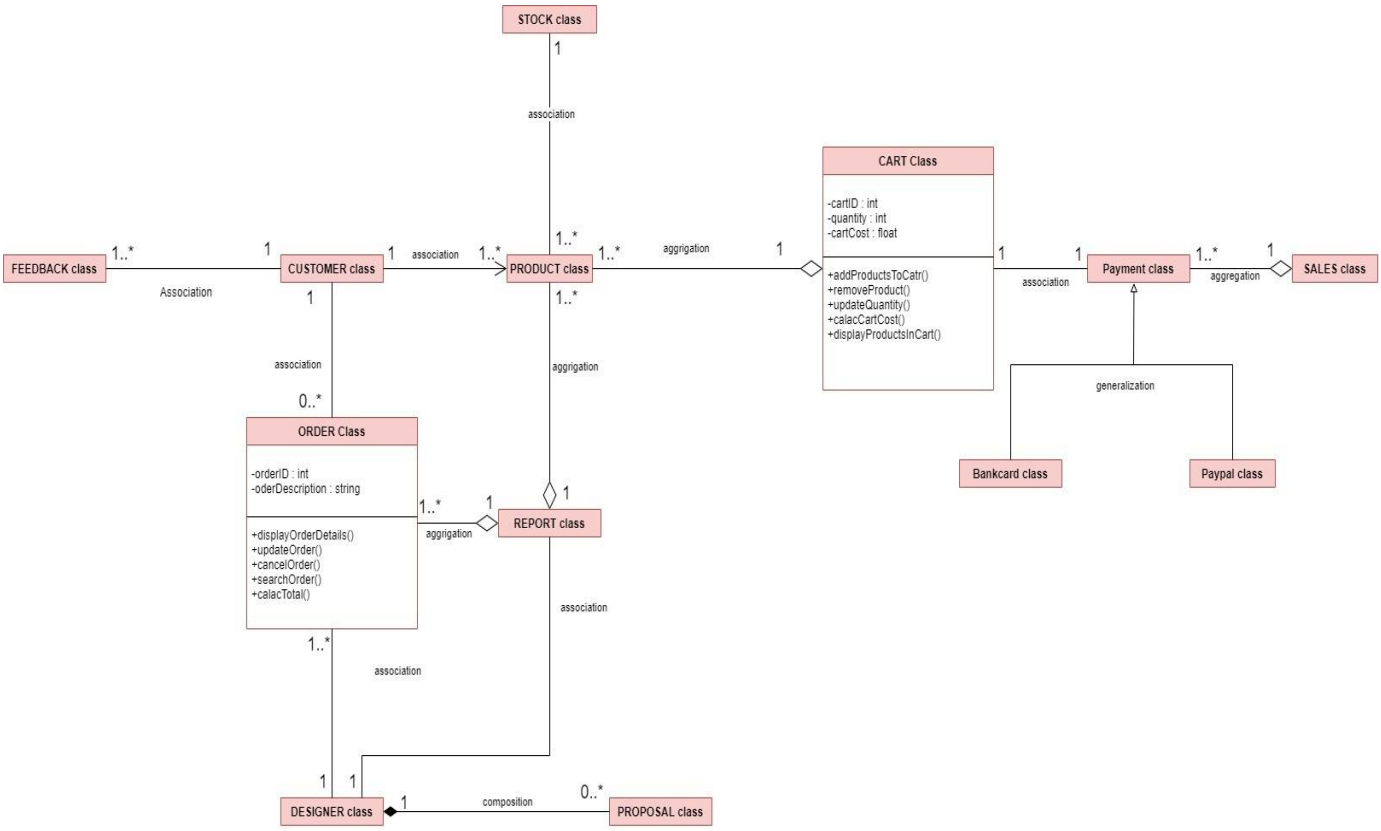
Cart Order

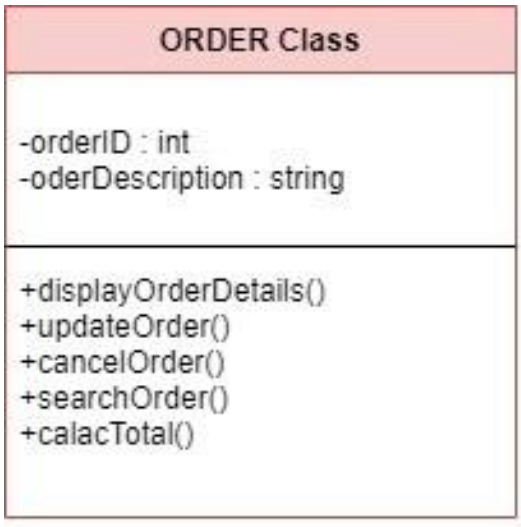
CRC cards

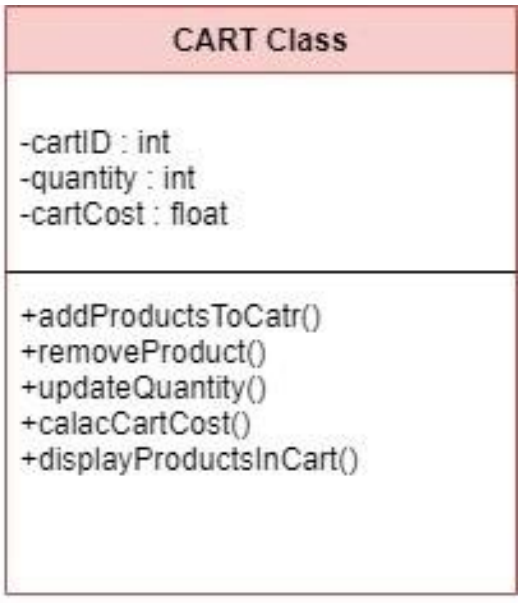
Cart class	
Responsibility	**Collaborators**
Add product	Product
Delete product	Product
Buy cart items	Payement

Order class	
Responsibility	**Collaborators**
Place order	Customer, Designer
Store order details	Report

Class diagram







Codes

Cart class

```
#include"Product.h"

#include"Payment.h"

class Cart{

                                        private:

                                                int cartID ;

                                                int quantity ;

                                                float cartCost ;

                                                Product *product[SIZE];//aggregation relationship to product

                                                Payment *pay;//association relationship to payment class

                                         public:

                                                Cart(){};

                                                Cart(int id, int qty, float cost)

                                                {

                                                        cartID=id;

                                                        quantity=qty;

                                                        cartCost=cost;

                                                }

                                                void addProductsToCart(Product *p1, Product *p2);

                                                void dispalyProductsInCart();

                                                void removeProductsInCart();

                                                void updateQuantity();

                                                float calcCartCost();

                                                ~Cart();};
```

Order Class

```
#include"Customer.h"
#include"DESIGNER.h"


class Order{
private:
int orderID;
        char orderDescription[50];
        customer *cus;//association relationship to Customer
        DESIGNER *designer;//association relationship to Designer class
public:
        Order();
                Order(int oID);
                void displayOrderDetails(const char desc[], customer*cus1);
                ~Order();
};
```

```
#include <iostream>
#include <string>
#include "Cart.h"
#include "Order.h"

#define SIZE 2 using
namespace std;



void Cart:: addProductsToCart(Product *p1, Product *p2){
  product[0]=p1;
  product[1]=p2;
}

void Cart:: dispalyProductsInCart(){
product[0]->display();
  product[2]->display();
  }
void Order:: displayOrderDetails(const char desc[],customer *cus1){
                                strcpy(orderDescription,desc);
     cus=cus1;
     cout<<"Order id:"<<orderID<<endl;
     cout<<"Order description: "<<orderDescription<<endl;

                        }
```

```
int main()
{
  Cart *c1 = new Cart();

  Product *pro1 = new Product(001, "Black pearl T-shirt", "M", 2100);
  Product *pro2 = new Product(002, "White shirt", "S", 1600);

  c1 -> addProduct(pro1, pro2);
  c1 -> removeProduct(pro1);
  c1 -> updateQuantity();
  c1 -> displayCartDetails();
  c1 -> calacCartCost();

  delete c1;

  pro1 -> displayProductDetails();
  pro2 -> displayProductDetails();



Payemnet *p1 = new Customer(23000.00, 1002, 16/05/2022);
 Payemnet *p2 = new Customer(12000.00, 1034, 09/05/2022);
```

```
Order *o1 = new Order(001, "Red sleeveless frock", c1, d1);
 Order *o2 = new Order(002, "Black leather jacket", c2, d2);



   Designer *d1 = new Designer(001, "John", "john123@gmail.com");
   Designer *d2 = new Designer(002, "Jenny", "jenny@gmail.com");



  Report *r1 = new Report();

   Order *o1 = new Order(001, "Red sleeveless frock", c1, d1);
   Order *o2 = new Order(002, "Black leather jacket", c2, d2);

  r1 -> createOrdertReport(o1, o2);
  r1 -> displayOrderReport();

  delete r1;

  o1 -> displayOrderDetails();
  o2 -> displayOrderDetails();


            return 0;

}
```