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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Classes

Product

Report

Sales

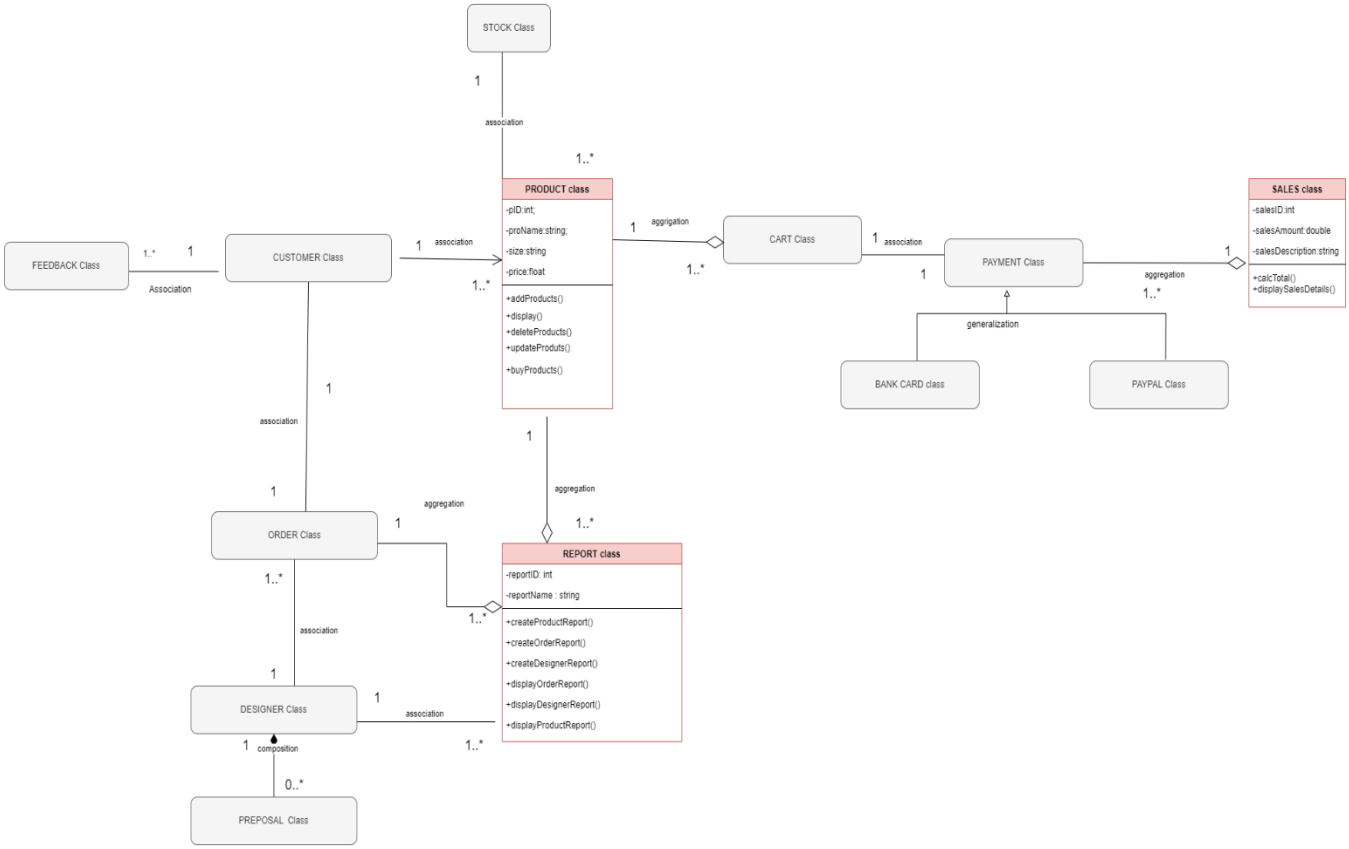
CRC cards

Product class	
Responsibility	**Collaborators**
Store details of product	Customer,stock,cart

Reports class	
Responsibility	**Collaborators**
List of product	Product
List of previous order	Order
List of designer	Designer

Sales class	
Responsibility	**Collaborators**
Store sales details	payment

Class diagram



Codes

Product.h

```
//Product class

#include"Stock.h"

 class Product{

private:

 int pID;

char proName[20]; char size[3];

 float price;

Stock *stock;//bidirectional relationship to Stock class


public:

Product();

Product(int id, const char Name[],const char pSize[],float pPrice,Stock *st);  void display();

void addProduct();

 void deleteProduct();

 void updateProduct();

 void buyProduct();

~Product();

};
```

Product.cpp

```
Product::Product(){};

Product::Product(int id, const char Name[],const char pSize[],float pPrice ,Stock
*st){
```

```
 pID=id;
 strcpy(proName,Name);
strcpy(size,pSize);
price=pPrice;
 st=stock;
}
void Product:: display(){
cout<<"Product ID: "<<pID<<endl;
 cout<<"Product name: "<<proName<<endl;
cout<<"Product size: "<<size<<endl;
cout<<"Product price: "<<price<<endl;
}
```

Report.h

```
//Report class
#include "Product.h"
#include "Order.h"
#include "DESIGNER.h" #define
SIZE 2 class Report{

private:
int reportID;
char reportName[20];
Product *product[SIZE];//aggregation relationship to Product class
Order *order[SIZE];//aggregation relationship to Order class
```

```
DESIGNER *d;//bi derectional association relationship to Designer class


public:

Report();

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

void displayProductReport();

void createOrdertReport(Order *o1, Order *o2) ; void
displayOrderReport() ;

 void createDesignerReport(DESIGNER *d1);

void displayDesignerReport();

~Report();

};
```

Report.cpp

```
Report::Report(){};
 void Report:: createProductReport(Product *p1, Product *p2) {
        product[0] = p1;         product[1] = p2;
     }
void Report:: displayProductReport() {
 product[0]->display();
   product[1]->display();
     }
```

```
void Report:: createOrdertReport(Order *o1, Order *o2) {
        order[0] = o1;
       order[1] = o2;
     }
void Report:: displayOrderReport() {

order[0]->displayOrderDetails();

 order[1]->displayOrderDetails();

     }
void Report:: createDesignerReport(DESIGNER *d1) {
     d=d1;
     }


void Report:: displayDesignerReport() {
order[0]->setDesignerDetails();
 order[1]->displayDesignerDetails();
     }
```

Sales.h

```
//Sales class

#include"Payment.h"

#define SIZE 2


class Sales{

private:

int salesID;
```

```
 double salesAmount;
char salesDescription[100];
Payment *pay[SIZE];
public:
Sales();
int calcTotal(Payment *p1, Payment *p2); void
displaySalesDetails();
};
```

Sales.cpp

```
int Sales::calcTotal(Payment *p1, Payment *p2){
salesAmount=p1+p2;
}
```

main.cpp

```
int main(){
 Product *P1= new Product(001,"T shirt", "L", 4000,S1);
 Product *P2= new Product(002,"Frock", "M", 5000,S1);
Sales *sale=new Sales();
Report *r1= new Report();
```

```
Report *r2=new Report();
Report *r3=new Report();
 r1->createProductReport(P1, P2);
r1->displayProductReport();
 r2->createOrderReport(o1,o2);
 r2->displayOrderReport();
 r3->createDesignerReport(d1);
  r3->displayDesignerReport();
   sale->calcTotal(P1,P2);
delete P1;
delete P2;
delete sale;
}
```