



Topic : Online Fashion store

Group no : MLB 9.2\_G1\_GROUP 3

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

This “Belezza clothing” is an online fashion store where you can buy any fashion related items. There are numerous facilities are presented from the system to customers.

If a customer wants to or buy a product from us, first they must register as a member. To register to the system customer should enter their information such as Name, Email, Mobile phone, DOB to system. Registered members can use full features of the website. On that way customer can manage time for better shopping. Using our website customers will not have to travel everywhere to find best products what they are looking for. We have included all the details briefly with the images. And we have included many categories. It would be easier and helpful to our customers. Customer can add items to the shopping cart to buy. System allows customers to do payments in vary methods such as cards and cash. And system will protect every detail regarding to the payment including payment dates, methods, amounts & card details. System admin will monitor whole process of the system. Admin can login to the system entering admin id and password. For that admin should have registered on the system. The system is handling by the system admin. The admin can manage the items and customers in the system. System will give the chance to customers to send feedbacks to the system using their email.

# Requirements

1. Registered customers need register to the system to purchase products.
2. Unregistered customers can only view the products.
3. Registered customers can log in to the system by providing username and password.
4. Registered customers can buy items.
5. Registered customers can Add or remove item from shopping cart.
6. Customer can do payments using valid method such as credit card or cash on delivery.
7. Customer should provide their name, address, telephone, and email to place order.
8. Order confirmation e mail will be sent to the customer after place the order.
9. A registered customer can view and update their profiles after logging in.
10. A registered customer can give feedbacks for items.
11. Admin can login to system and add or remove items from the system.

# Noun / Verb Analysis

- **noun** – represent in red color.
- **verbs** – represent in blue color.

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# Identifying classes

1.	Registered customer	Class
2.	Products	Class
3.	Unregistered customer	Class
4.	Shopping cart	Class
5.	Order	Class
6.	Feedback	Class
7.	Payment	Class
8.	Admin	Class
9.	Items	Redundant to products
10.	Customer	Redundant to registered customer
11.	System	Out of scope
12.	Order confirmation email	Out of scope
13.	name, address, telephone, and email	Attributes
14.	Credit card	Attributes
15.	Cash on delivery	Attributes

# CRC cards

Payments	
Responsibilities	collaboration
View amount to be paid	Order
Validate the payment	
Choose payment method	

Order	
Responsibilities	collaboration
View item details	products
Calculate total amount	
Cancel order	
Confirm order	

Feedback	
Responsibilities	collaboration
Add feedback	
Display feedback	

Admin	
Responsibilities	collaboration
Login to system	
Add or remove items	

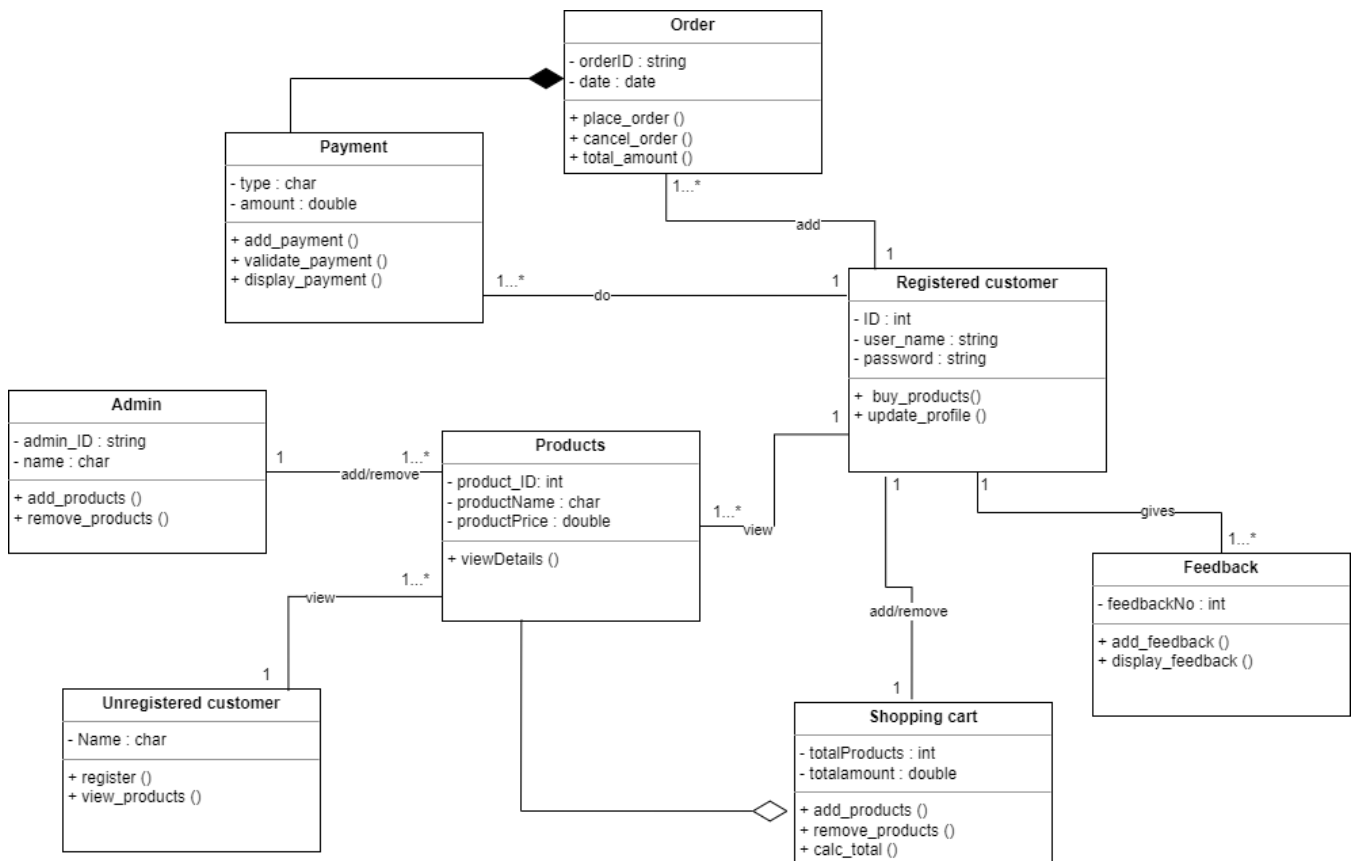
Products	
Responsibilities	collaboration
View product ID	
View product name	
View product price	

Registered customer	
Responsibilities	collaboration
Login to profile	
View products	products
Add products to shopping cart	Shopping cart
Pay for products	payment
Give feedbacks	feedback

Unregistered customer	
Responsibilities	collaboration
Register to system	
View products	products

Shopping cart	
Responsibilities	collaboration
Add products	products
Remove products	products
Calculate total amount	

# UML class diagram





# Coding

```
#include <iostream>
#include <string>
#include <cstring>
#include <iomanip>

using namespace std;

//-----class implimation-----

//FERNANDO M.B.S.D
class Admin{
    private:
        int admin_ID;
        string Name;

    public:
        Admin();
        Admin(int aID,string aName);
        void displayAdminDetails();
};

//Gunarathna M.H.B.P.T
class Registered_Customer{
    private:
        int ID;
        string userName;
        string password;

    public:
        Registered_Customer();
        Registered_Customer(int cID,string uName,string pw);
        void displayCustomerDetails();
};

//Kumara L.A.I
class Product{
    protected:
        int product_ID;
        string productName;
        double productPrice;
    public:
        Product();
        Product(int p_ID,string pName,double pPrice);
        void displayproductDetails();
        float getProductPrice();
};
```

```

};

//Gunarathna M.H.B.P.T
class Orders{
    private:
        int orderID;
        string ordate;

    public:
        Orders();
        Orders(int oID,string Date);
        void displayOrderDetails();
};

//Madusanka A.R.M.S
class Unregistered_Customer{
    private:
        int visitor_ID;

    public:
        Unregistered_Customer();
        Unregistered_Customer(int vID);
        void displayUnregisteredCustomerDetails();
};

//Madusanka A.R.M.S
class Payment{
    private:
        string type;
        double Amount;
    public:
        Payment();
        Payment(string pType, double pAmount);
        void displayPaymentdetails();
};

//Kumara L.A.I
class Shopping_cart{
    protected:
        int totalProduct;
        double totalAmount;
    public:
        Shopping_cart();
        Shopping_cart(int tProduct);
        void displayShoppingCartDetails();
        void addAmount(int tAmount,Product *p);
};

```

```

//Rajapaksha K.R.P
class Feedback{
    private:
        int feedbackNo;
        string feedback;

    public:
        Feedback();
        Feedback(int fbNO,string fb);
        void displayFeedackDetails();
};

//-----Admin-----

Admin::Admin()
{
    admin_ID=0;
    Name="";
}

Admin::Admin(int aID,string aName)
{
    admin_ID=aID;
    Name=aName;
}

void Admin::displayAdminDetails()
{
    cout<<"Admin Details : "<<endl;
    cout<<"    Admin ID : "<<admin_ID<<endl;
    cout<<"    Admin Name : "<<Name<<endl;
}

//-----Unregistered Customer-----

Unregistered_Customer::Unregistered_Customer()
{
    visitor_ID=0;
}

Unregistered_Customer::Unregistered_Customer(int vID)
{
    visitor_ID=vID;
}

```

```

void Unregistered_Customer::displayUnregisteredCustomerDetails()
{
    cout<<"Unregistered Customers Details : "<<endl;
    cout<<"    Visitor ID : "<<visitor_ID<<endl;
}

//-----Registered Customer-----

Registered_Customer::Registered_Customer()
{
    ID=0;
    userName="";
    password="";
}

Registered_Customer::Registered_Customer(int cID,string uName,string pw)
{
    ID=cID;
    userName=uName;
    password=pw;
}

void Registered_Customer::displayCustomerDetails()
{
    cout<<"Registered Customer Details : "<<endl;
    cout<<"    Customer ID : "<<ID<<endl;
    cout<<"    User Name : "<<userName<<endl;
    cout<<"    Password : *****"<<endl;
}

//-----Product-----

Product::Product()
{
    product_ID=0;
    productName="";
    productPrice=0;
}

Product::Product(int p_ID,string pName,double pPrice)
{
    product_ID=p_ID;
    productName=pName;
    productPrice=pPrice;
}

```

```

void Product::displayproductDetails()
{
    cout<<"Product Details : "<<endl;
    cout<<"    Product ID : "<<product_ID<<endl;
    cout<<"    Product Name : "<<productName<<endl;
    cout<<"    Product Price : "<<productPrice<<endl;
}

float Product::getProductPrice()
{
    return productPrice;
}

//-----Order-----

void Orders::displayOrderDetails()
{
    //cout<<"Order Details : "<<endl;
    cout<<"Order Details : "<<endl;
    cout<<"    Order ID : "<<orderID<<endl;
    cout<<"    Order Date : "<<ordate<<endl;
}

Orders::Orders()
{
    orderID=0;
    ordate="";
}

Orders::Orders(int oID,string Date)
{
    orderID=oID;
    ordate=Date;
}

//-----payment-----

Payment::Payment()
{
    type="";
    Amount=0.0;
}

Payment::Payment(string pType, double pAmount)
{
    type=pType;
    Amount=pAmount;
}

```

```

}

void Payment::displayPaymentdetails()
{
    cout<<"Payment Details : "<<endl;
    cout<<"    Payment Type : "<<type<<endl;
    cout<<"    Payment Amount : 
"<<setiosflags(ios::fixed)<<setprecision(2)<<Amount<<endl;
}

//-----shoping_cart-----

Shopping_cart::Shopping_cart()
{
    totalProduct=0;
}

Shopping_cart::Shopping_cart(int tProduct)
{
    totalProduct=tProduct;
}

void Shopping_cart::addAmount(int tProduct,Product *p)
{
    totalAmount=(totalProduct * p->getProductPrice());
}

void Shopping_cart::displayShoppingCartDetails()
{
    cout<<"Shopping Cart Details : "<<endl;
    cout<<"    Product Quantity : "<<totalProduct<<endl;
    cout<<"    Total Amount : "<<totalAmount<<endl;
}

//-----Feedback-----
Feedback::Feedback()
{
    feedbackNo=0;
    feedback="";
}

Feedback::Feedback(int fbNO,string fb)
{
    feedbackNo=fbNO;
    feedback=fb;
}

```

```

}

void Feedback::displayFeedackDetails()
{
    cout<<"Feedback Details : "<<endl;
    cout<<"    Feedback Id : "<<feedbackNo<<endl;
    cout<<"    Customer Feedback : "<<feedback<<endl;
}

//-----Main Programm-----

int main()
{
    //Admin
    Admin ad1(997788,"Thiwanka Suresh");
    Admin ad2(887766,"Suresh Maliyadde");

    //Registered Customer
    Registered_Customer regc1(8765,"Saman Silva","986877Saman#");
    Registered_Customer regc2(9876,"Dilshan Perera","Dil8374%");

    //Unregistered Customer
    Unregistered_Customer cus1(6574);
    Unregistered_Customer cus2(9584);

    //Product constructor
    Product pdt1(1234,"T-shirt",1200.00);
    Product pdt2(4567,"frock",1500.00);

    //Order constructor
    Orders oo1(4235,"12/02/2022");
    Orders oo2(8231,"02/02/2022");

    //Payment
    Payment p1("Card",1600);
    Payment p2("Cash on Delivery",1850);

    //Shopping Cart
    Shopping_cart sc1(2);
    Shopping_cart sc2(3);

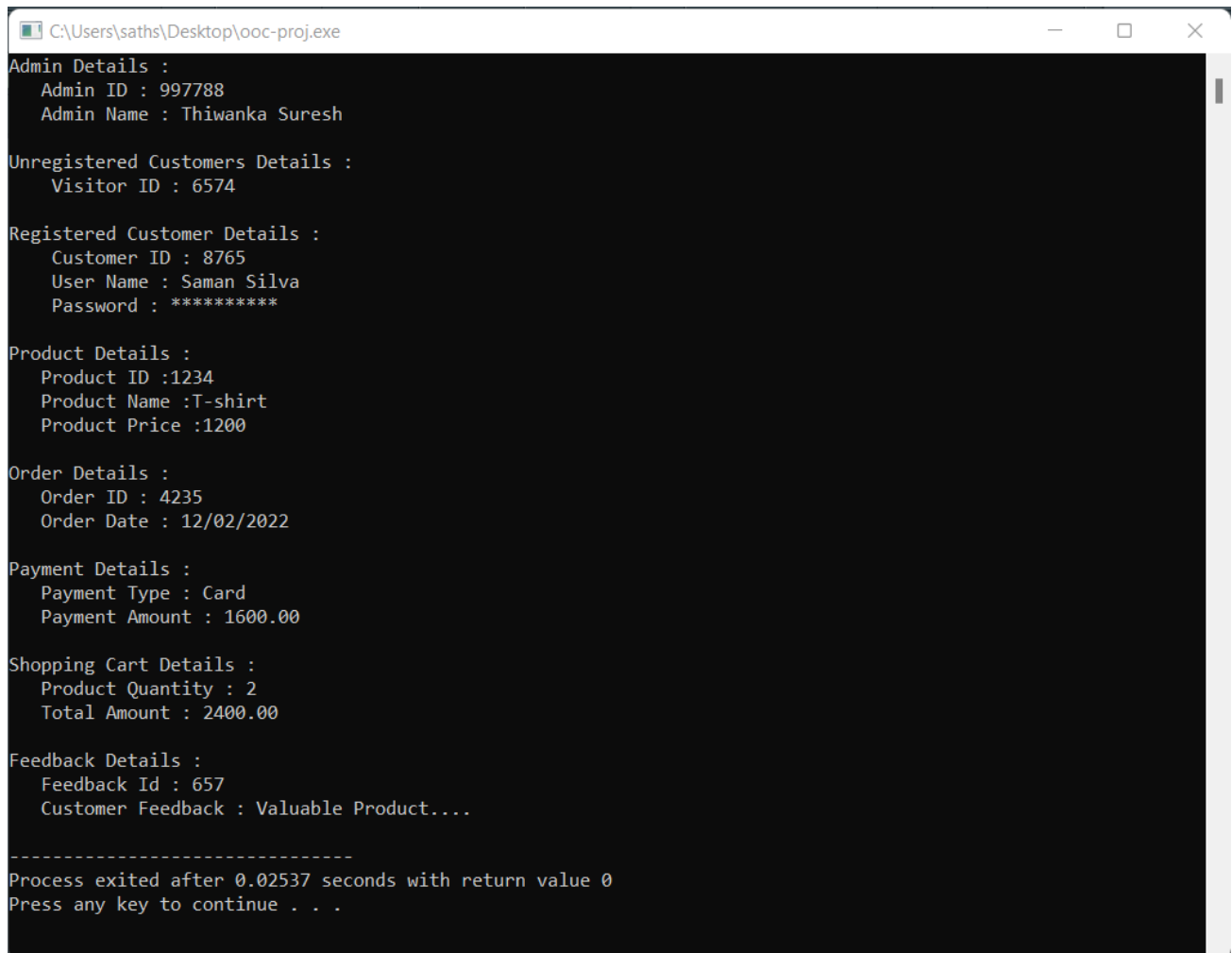
    //feedback
    Feedback fb1(657,"Valuable Product....");
    Feedback fb2(547,"Great Quality");
}

```

```
//-----display an output-----  
ad1.displayAdminDetails();  
cout<<endl;  
cus1.displayUnregisteredCustomerDetails();  
cout<<endl;  
regc1.displayCustomerDetails();  
cout<<endl;  
pdt1.displayproductDetails();  
cout<<endl;  
oo1.displayOrderDetails();  
cout<<endl;  
p1.displayPaymentdetails();  
cout<<endl;  
sc1.displayShoppingCartDetails();  
cout<<endl;  
fb1.displayFeedackDetails();  
  
return 0;  
}
```



# Output



```
C:\Users\saths\Desktop\ooc-proj.exe
Admin Details :
  Admin ID : 997788
  Admin Name : Thiwanka Suresh

Unregistered Customers Details :
  Visitor ID : 6574

Registered Customer Details :
  Customer ID : 8765
  User Name : Saman Silva
  Password : *****

Product Details :
  Product ID :1234
  Product Name :T-shirt
  Product Price :1200

Order Details :
  Order ID : 4235
  Order Date : 12/02/2022

Payment Details :
  Payment Type : Card
  Payment Amount : 1600.00

Shopping Cart Details :
  Product Quantity : 2
  Total Amount : 2400.00

Feedback Details :
  Feedback Id : 657
  Customer Feedback : Valuable Product....

-----
Process exited after 0.02537 seconds with return value 0
Press any key to continue . . .
```

# Contribution

## **IT21180248 – Fernando M.B.S.D**

- Created the CRC Card for admin class.
- Created the class diagram for admin class.
- Implemented the coding for the admin class.
- Did the noun verb analysis.

## **IT21180484 -Kumara L.A.I**

- Created the CRC Card for product and shopping cart class.
- Created the class diagram for product and shopping cart.
- Implemented the coding for the product class and shopping cart class.
- Identified classes.

## **IT21180552 -Gunarathna M.H.B.P.T**

- Created the CRC Card for order and registered customer classes.
- Created the class diagram order and registered customer.
- Implemented the coding for the order and registered customer class.
- Identified classes.

## **IT21177200 -Madusanka A.R.M.S**

- Created the CRC Card for Payment and unregistered customer classes.
- Created the class diagram for Payment and unregistered customer.
- Implemented the coding for the Payment class and unregistered customer.
- Finalized UML diagram.

## **IT21174858 – Rajapaksha K.R.P**

- Created the CRC Card for feedback class.
- Created the class diagram for feedback class.
- Implemented the coding for the feedback class.
- Identified the requirements for system.