

Object Oriented Programming MTE Innovative Project Proposal

Team Members:

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Topic:

Shopping Management System

Objective:

Through the medium of this project we'll be implementing a shopping management system to carry out the functions, operations related to the data and relational database of a supermarket.

Idea and Design Planning:

/* We are incorporating three basic classes:

1. Product
2. Customer
3. Seller

*/

// Products, Sellers and customers of different categorizations will
// have independent classes respectively which will inherit from
// these base classes.

// The product class contains basic details of any product

// Categories of Products would be Electronics, Lifestyle etc.

// These all categories will be the inherited classes of this base

//Product class

class Product{

 int Price;

 int Date_Of_Manufacturing;

 int Product_ID;

public:

 int Get_Price(){ return Price;}

 int Get_Date_of_Manufacturing(){ return
Date_Of_Manufacturing;}

 int Get_Product_ID(){ return Product_ID;}

 void set_Price(int n){ Price=n; }

 void set_Date_Of_Manufacturing(int n)
 {Date_Of_Manufacturing=n;}

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        void set_Product_ID(int n){
            Product_ID=n;
        }
};

// The customer class contains details about a particular
// customer and member functions to modify or update their data
class Customer{
    string Name;
    int Customer_ID;
    string Address;
    int Pincode;
public:
    void Get_Details();
    void Last_Order_Details();
    void Get_Previous_Order_Summaries();
    Void set_Name(string s){ Name=s; }
    Void set_Customer_ID(int n){ Customer_ID=n; }
    Void set_Address(string s){ Address=s; }

};

//The seller class handles the details of sellers which include
// retailers, renewed sellers, wholesalers
class Seller{
    int Seller_ID;
    string Name;
public:
    void Get_Details_Of_Product();

```

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Void Get_Seller_ID{ return Seller_ID; }  
Void Get_Seller_Name{ return Name; }  
  
};
```

Project Timeline:

6th September 2021:	Submission of Project Proposal/Abstract
13th October 2021:	Code completion
27th October 2021:	Project submission

Contributors:

Sarthak Tirpude:

Will handle the implementation work of Sellers, products.

Shubham Aggarwal:

Will handle the implementation and code of customers and the file handling operations.