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ABSTRACT

Shopping Club management system is a project which aims in developing a computerized system to maintain all the daily work of Shopping Club.

AIM: To provide a comprehensive solution for the shopping club management system.

As we all know, people have been relying on the shopping very much. Simple Shopping Club Management System is based on the concept of managing the record of shopping club on regarding their items and customers. This is a better design of a system wherein people can easily retrieve info without wasting much time.

"Shopping Club Management System" has been designed to overcome the shopping problems.

CHAPTER 1 INTRODUCTION

This chapter gives an overview about the aim, objectives, background and operation environment of the system.

1.1 PROJECT AIMS AND OBJECTIVES

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows:

- To create a Shopping Club management system that is user-friendly.
- The main objectives of the Shopping Club Management System is to manage the details of products, shopping, and customers.
- The software is capable enough to allow the concerned person to store and retrieve any type of product record. The software allows interactive, self-describing Graphic User Interface environment where even standalone users can work very comfortably and easily.
- All the data pertaining to product information is kept at central database from where it can be easily retrieved, viewed or updated. But, such kind of technical details are hidden from the standalone user. He just needs to select the relevant option from the given menu-driven interface. However, the central repository of data can be easily accessed if required
- Data Redundancy is no more the problem now. The data modified from one particular data entry form will reflect at central database as well. The software ensures that all duplicate products are efficiently managed.
- The software provides the facility of storing new products and also displays the existing ones in order.

1.2 BACKGROUND OF PROJECT

This system is developed keeping in view the general need required by the Customer while doing the shopping. To keep the items and other data updated, the admin will have the authority to add and delete as well as modify the existing records within the shopping club. The admin of the market will have the authority to list details of all available items.

The admin can also perform various operations such as adding customer records, deleting records, modifying existing records etc. The Customer can choose trollies for shopping and will get a bill at the end of shopping.

To make all operations as easier as possible, a user-friendly approach has been taken into account by which users have to only give the relevant inputs during final confirmation to make their operations successful. The background processing system will take care of all processing tasks and maintain data integrity to reduce the redundancy of data. For shopping operation, customer will be able to get any particular product using their item id but the only condition is that product records must be available within the file system. If no such record is available, a proper error message will be displayed as per user input provided to the system.

1.3 OPERATION ENVIRONMENT

PROCESSOR	INTEL CORE PROCESSOR OR BETTER PERFORMANCE
OPERATING SYSTEM	WINDOWS , UBUNTU,MAC
MEMORY	1GB RAM OR MORE
HARD DISK SPACE	MINIMUM 3 GB FOR USAGE FOR FUTURE
SOFTWARE	DEV C++

2. SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system

SOFTWARE REQUIREMENTS

- Operating system- Windows 10 is used as the operating system as it is stable and supports more features and is more user friendly
- Software –DEV C++ is used to write code.
- Programming language- C++ is used as programming language.

HARDWARE REQUIREMENTS

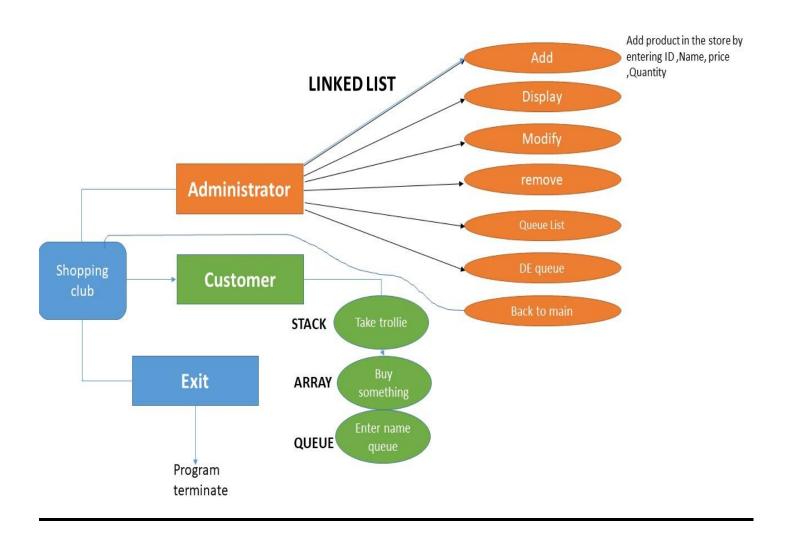
- Intel core i5 2nd generation is used as a processor because it is fast than other processors and provide reliable and stable and we can run our pc for longtime.
 By using this processor we can keep on developing our project without any worries.
- Ram 1 GB is used as it will provide fast reading and writing capabilities and will in turn support in processing

❖ Data Structures Used

For Administrator Module - LINKED LIST, ARRAY For Customer Module - ARRAY, STACK, QUEUE

- 1) Administrator Module uses Linked list to add, delete or modify products, display customers or remove customers.
- 2) Customer Module uses Array to buy something, Stack to take trollies, Queue to add name into queue

CHAPTER 3 SYSTEM IMPLEMENTATION & TESTING



❖ MAIN PAGE

```
COLOMO Admini Deveload Cologo System C++ Source Cold Cologo System C++ Source Cologo System C++ Sourc
```

❖ MAIN MENU

```
Colored Administration Control Control Code (December 2) Administration of Purket 3) Administration of Purket 3) Southwest 200 Administration of Purket 3) Southwest 200 Administration of Purket 3) Administration of Purket 30 A
```

❖ ADMIN MODULE



❖ CUSTOMER MODULE

```
| Control Amen Demonstrative Service Control Service Control Description Service Contr
```

❖ BILLING PAGE



• Features of the project

'Shopping Club Management System' has been designed to computerize the following Functions that are performed by the system under two modules:

- 1) Admin module (Administration of market)
- Add new products
- Display all products
- Modify existing products
- Delete any product
- List all the customers
- Remove any customer from list
- 2) Customer module (Customer)
- To get trollies for shopping
- To Order items

CODE

```
#include<iostream>
#include<string>
#include <sstream>
#include <bits/stdc++.h>
#include<windows.h>
#include"queue1.h"
#include"animation.h"
#include"stackme.h"
using namespace std;
int search(int);
int display();
string check(int);
                  // for checking quantity
struct node
       int ID;
       string proName;
       double prePrice;
       int quantity;
  struct node* next;
};
struct node *head=NULL;
void beg()
       system("cls");
       int id, quant;
                       // quant for quantity
       string name;
       double pre;
                       // pre for price
       struct node *t=new node;
       struct node *p=head;
       cout<<"\t\tEnter product ID:-";</pre>
       cin>>id;
       t->ID=id;
       cout<<"\t\tEnter product Name:-";</pre>
       cin>>name;
       t->proName=name;
       cout<<"\t\tEnter product price:-";</pre>
       cin>>pre;
```

```
t->prePrice=pre;
     cout<<"\t\tEnter product quantity:-";</pre>
     cin>>quant;
     t->quantity=quant;
     if(head==NULL)
     t->next=head;
     head=t;
     }
     else
           while(p->next!=NULL)
           p=p->next;
   p->next=t;
   t->next=NULL;
     }
     system("cls");
 cout << "\n\t\t\t
     }
int search(int id)
                   // for search item in list
{
     int count=1;
     struct node *p=head;
     while(p!=NULL)
           if(p->ID==id)
                break;
           else
                count++;
                p=p->next;
     return count;
int hash(int x, int mod)
     return x % mod;
}
void delPro()
           system("cls");
           display();
```

```
int id;
               struct node *cur=head;
               struct node *pre=head;
               cout<<"\n\nEnter ID to delete that product:\n\n";
               cin>>id;
               if (head == NULL)
  {
       system("cls");
    cout<<"List is empty"<<endl;</pre>
       int pos=0;
       int count=display();
                                  // for load no of nodes
       pos=search(id);
                                   // for check weather desire node is exist or not
       if(pos<=count){</pre>
               while(cur->ID!=id){
                                           // for delete middle area products
                      pre=cur;
                      cur=cur->next;
}
               pre->next=cur->next;
               system("cls");
               cout<<"\n<<item is deleted>>\n";
       }else{
               cout << "\n << Not found >> \n'";
       }
void modify()
       {
               int id;
               double pre;
                              // pre for price
               string pName;
               int nid; int nq; // pName for new name
               if (head == NULL)
  {
       system("cls");
    cout<<"List is empty"<<endl;
     else
          display();
               cout<<"\n\nEnter ID to modify product Name and its price:\n";
               struct node *cur=head;
               int pos=0;
               int count=display();
                                        // for load no of nodes
          pos=search(id);
                        // for check weather desire node is exist or not
          if(pos<=count)
  {
```

```
while(cur->ID!=id)
                      cur=cur->next;
               }
               cout<<"\nOld ID : "<<cur->ID<<endl;</pre>
               cout<<"\nOld Name : "<<cur->proName<<endl;</pre>
               cout<<"\nOld Price : "<<cur->prePrice<<endl;</pre>
               cout<<"\nOld Quantity : "<<cur->quantity<<endl;</pre>
               cout<<endl<<endl;
               cout << "Enter new ID:";
               cin>>nid;
               cur->ID=nid;
               cout << "Enter new Name:";
               cin>>pName;
               cur->proName=pName;
               cout<<"Enter new Price:";
               cin>>pre;
               cur->prePrice=pre;
               cout<<"Enter new Quantity:";
               cin>>nq;
               cur->quantity=nq;
       }
         else
               cout << id << "is << <Not found >> \n'";
int display()
               system("cls");
               int c=0;
                             // c for count products
               struct node *p=head;
               cout<<"Existing products are:\n";
               cout<<"ID\t\tProduct Name\t\tPrice\t\tQuantity\n";</pre>
               cout<<"============
               while(p!=NULL)
                      cout<<p->ID<<"\t\t"<<p->proName<<"\t\t\t"<<p->prePrice<<"\t\t\t"<<check(p-
>quantity)<<"\n"; // call check func and pass quantity
                      p=p->next;
                      c=c+1;
               cout<<"\nTotal products in our store is : "<<c<\"\n\n\n";
               return c;
          }
```

```
string check(int quant)
                     check function
               //
         int a = quant;
   stringstream ss;
    ss << a;
   string quantity = ss.str();
              if(quant <= 0)
              return "out of stock!";
              return quantity;
void buy()
    system("cls");
    display();
              string products[20];
               // for display sold items
              int pay=0,no,c=0,price,id,i=1;
    if(head==NULL)
         cout<<"\n<<<<There is no items to buy>>>>\n\n";
    }
         else
              cout<<"How many items you wanna to buy!\n";
              cin>>no;
    int count=display();
                           // for store no of nodes in c
              while (i<=no)
    {
                     struct node *cur=head;
      int quant, cho; a:
                           // quant for quantity and cho for choice
      cout<<"Enter id of item that you want to buy: ";
      int id,pos=0;
      cin>>id;
      if(id==-1){system("cls"); return; }
           pos=search(id);
           if(pos<=count)
    {
                    // item is available in store
              while(cur->ID!=id)
                     cur=cur->next;
      cout<<"How many quantities you want:";
          cin>>quant;
```

```
if(cur->quantity<quant)
      {
        cout<<"\n\n\t\t\t----The Quantity You Entered is not available---"<<endl;
        cout<<"\n\t\t\t-----(Press -1 for Back to Main Menu)-----"<<endl;
        goto a;
      }
      products[c]=cur->proName; // this will conatin the items buy names in array;
                c++;
           pay=pay+(cur->prePrice*quant);
                                                   calculate Bill
           cur->quantity=cur->quantity-quant;
                                                   // change quantity
           i++;
          }
         else
    {
               cout<<"\n<<<<<This item is not available in our store at this time>>>>\n\n";
         }
}
    string customer;
    cout<<"\n\t\t Enter Your Name :"; cin>>customer;
    enqueue(customer);
         system("cls");
    cout << "\n\n\t\t\t\tYou have bought: ";
    for(int i=0;i< no;i++)
            // show that item you have bought
    cout<<pre>cproducts[i]<<",";</pre>
    price=pay*(0.90);
                          // with 10% discount
         cout<<"\n\nOriginal price : "<<pay;</pre>
    cout<<"\n with 10% discount: "<<pri>rice<<"\nThank you! for the shopping\n\n";</pre>
     }
void administator()
       {
              system("cls");
                      int ch;
       do {
```

// choice for below message

```
cout << "\t t =
       cout << "\t\t|
                      Administator Portal
                                               |"<<endl:
       cout<<"\t\t==
                                                          ======="<<endl;
       cout<<"\t\t
                   Enter 1 for ADD a new product "<<endl;
                   Enter 2 to display all products "<<endl;
       cout << "\t \
       cout<<"\t\t
                   Enter 3 for MODIFY Existing product"<<endl;
                   Enter 4 for Delete a particular product item"<<endl;
       cout<<"\t\t
                  Enter 5 for Customers List "<<endl;
       cout<<"\t\t
       cout << "\t\t
                   Enter 6 for Dequeue customer"<<endl;
                   Enter 7 for Generate hash" << endl;
       cout << "\t \
                   Enter 0 for Main Menu" << endl;
       cout << "\t
       cout<<"\nEnter Your choice >>>"; cin>>ch;
       switch(ch){
       case 1:
       beg();
       break;
case 2:
       system("cls");
  display();
  break;
case 3:
       modify();
       system("cls");
       break;
case 4:
       delPro();
cout << "\n-----\n";
       break;
case 5:
        system("cls");
   displayQueue();
        break;
case 6:
        system("cls");
        cout<<"|======CUSTOMERS NAMES LIST=======|"<<endl;
        dequeue();
   displayQueue();
       break;
case 7:
       int x,n;
      cout << "Enter element to generate hash = ";
                     cin >> x; cout << "Of total list number: "; cin >> n;
                     cout << "Hash of " << x << " is = " << hash(x,n);
```

break; default: system("cls"); while(ch!=0); // Main function int main() for(int i=0;i<=51;i++) push(i); system("color F2"); // for console color gotoxy(17,5);cout<<"-----"<<endl; gotoxy(17,7); Shopping Club Management System ||"<<endl; cout<<"|| gotoxy(17,9); cout<<"-----"<<endl; gotoxy(17,11); gotoxy(17,13); cout<<">>>----Project Implemented By-----<<"<<endl; gotoxy(22,15); cout << "CHIRAG SHARMA(LATG10024)" << endl; gotoxy(22,16); cout<<"PRAKHAR JAIN(LATG10025)"<<endl; gotoxy(22,17);cout << "ARYAN GARG(LATG10046)" << endl << endl; system("pause"); system("cls"); system("color Fc"); int ch; while(ch!=3){ // choice for below message cout<<"\n\t\t|------|";

```
cout << "\n\n";
       cout<<"\t\t 1)Administator of Market\n";</pre>
       cout << "\t\t 2)Customer
                                   n";
       cout << "\t 3)Exit
                                  n";
       cout<<"\nEnter Your choice >>>";cin>>ch;
       switch(ch){
       case 1:
              administator();
              break;
       case 2:
              cout<<endl<<endl;
              bpop();
              system("pause");
         buy();
         break;
  case 3:
       break;
       }
return 0; }
```

CHAPTER 6 CONCLUSION

The conclusions can be taken throughout the development of the Shopping Club Management System with a few suggestions and insights on the achievement of overall objectives, improvements, advantages, and disadvantages of the system. Additionally, suggestions for improving this system in the future are also highlighted.

Overall objective achievement is satisfactory based on the results of the testing of the Shopping Club Management System. All the modules developed in this system work well and achieve the objectives and scope of the project.

Therefore, it is a user friendly system which helps you to purchase products at your own comfort and helps to manage products in the market by administrator.

CHAPTER 7 REFERENCES

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