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**JEWELLERY MANAGEMENT SYSTEM**

```
#include<windows.h>
```

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
#include <stdlib.h>
```

```
#include<string.h>
```

```
#include<ctype.h>
```

```
#include<dos.h>
```

```
#include<time.h>
```

```
#define RETURNTIME 15
```

```
char catagories[][15]={"Rings","Ear Rings","Bracelet","Pendant","Chain","Jewelry Set"};
```

```
void returnfunc(void);
```

```
void mainmenu(void);
```

```
void additem(void);
```

```
void deleteitem(void);
```

```
void edititem(void);
```

```
void searchitem(void);
```

```
void viewitem(void);
```

```
void closeapplication(void);
```

```
void calculatebill(void);
```

```
int getdata();
```

```
int checkid(int);
```

```
int t(void);
```

```
void Password();
```

```
void issuerecord();
```

```
void loaderanim();
```

```
FILE *fp, *ft, *fs;
```

```
COORD coord = {0, 0};
```

```
int s;
```

```
char findstaff;
```

```
char password[10]={"pass"};
```

```
void gotoxy (int x, int y)
```

```
{
```

```
coord.X = x; coord.Y = y;
```

```
SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), coord);
```

```
}
```

```
struct meroDate
```

```
{
```

```
int mm,dd,yy;
```

```
};
```

```
struct staff
```

```
{
```

```
int id;
```

```
char stname[20];
```

```
char name[20];
```

```
char Material[20];
```

```
int Quantity;
```

```
int count;
```

```
int weight;
```

```
int karat;
```

```
char *cat;
```

```
struct meroDate issued;
```

```
struct meroDate duedate;
```

```
};
```

```
gotoxy(20,9);
```

```
printf("<3> Search Items");  
  
gotoxy(20,11);  
  
printf("<4> View Item's List");  
  
gotoxy(20,13);  
  
printf("<5> Edit Items");  
  
gotoxy(20,15);  
  
printf("<6> Calculate Bill");  
  
gotoxy(20,17);  
  
printf("<7> Close Application");  
  
gotoxy(20,2);  
  
t();  
  
gotoxy(20,20);  
  
printf("Enter your choice:");
```

```
switch(getch())
```

```
{
```

```
case '1':
```

```
additem();
```

```
break;
```

```
case '2':
```

```
deleteitem();
```

```
break;

case '3':

searchitem();

break;

case '4':

viewitem();

break;

case '5':

edititem();

break;

case '7':

{

system("cls");

gotoxy(16,3);

printf("\tJewelry Store Management System");

gotoxy(16,4);

exit(0);

}

case '6':

    calculatebill();

break;

default:

{
```

```
gotoxy(10,25);

printf("\aWrong Entry!!Please re-entered correct option");

if(getch())

mainmenu();

}

}

}

void additem(void)

{

system("cls");

int i;

gotoxy(20,5);

printf("SELECT CATEGORIES");

gotoxy(20,7);

printf("<1> Rings");

gotoxy(20,9);

printf("<2> Ear Rings");

gotoxy(20,11);

printf("<3> Bracelet");

gotoxy(20,13);

printf("<4> Pendant");

gotoxy(20,15);
```

```
printf("<5> Chain");

gotoxy(20,17);

printf("<6> Jewellery Set");

gotoxy(20,19);

printf("<7> Back to main menu");

gotoxy(20,21);


printf("Enter your choice:");

scanf("%d",&s);

if(s==7)

mainmenu() ;

system("cls");

fp=fopen("stf.dat","ab+");

if(getdata()==1)

{

a.cat=catagories[s-1];

fseek(fp,0,SEEK_END);

fwrite(&a,sizeof(a),1,fp);

fclose(fp);

gotoxy(21,14);

printf("The record is sucessfully saved");

gotoxy(21,15);
```



```
printf("Save any more?(Y / N):");

if(getch()=='n')

mainmenu();

else

system("cls");

additem();

}

}

void deleteitem()

{

system("cls");

int d;

char another='y';

while(another=='y')

{

system("cls");

gotoxy(10,5);

printf("Enter the Item Code to delete:");

scanf("%d",&d);

fp=fopen("stf.dat","rb+");

rewind(fp);

while(fread(&a,sizeof(a),1,fp)==1)
```

```
{  
  
if(a.id==d)  
  
{  
  
gotoxy(10,7);  
  
printf("The Item is available");  
  
gotoxy(10,8);  
  
printf("Item's name is %s",a.name);  
  
gotoxy(10,9);  
  
findstaff='t';  
  
}  
  
}  
  
if(findstaff!='t')  
  
{  
  
gotoxy(10,10);  
  
printf("No record is found modify the search");  
  
if(getch())  
  
mainmenu();  
  
}  
  
if(findstaff=='t' )  
  
{  
  
gotoxy(10,9);  
  
printf("Do you want to delete it?(Y/N):");
```

```
if(getch()=='y')
{
ft=fopen("test.dat","wb+");

rewind(fp);

while(fread(&a,sizeof(a),1,fp)==1)
{
if(a.id!=d)
{
fseek(ft,0,SEEK_CUR);

fwrite(&a,sizeof(a),1,ft);
}
}

fclose(ft);

fclose(fp);

remove("stf.dat");

rename("test.dat","stf.dat");

fp=fopen("stf.dat","rb+");

if(findstaff=='t')
{
gotoxy(10,10);

printf("The record is sucessfully deleted");

gotoxy(10,11);
```

```
printf("\n\tDelete another record?(Y/N)");  
  
}  
  
}  
  
else  
  
mainmenu();  
  
fflush(stdin);  
  
another=getch();  
  
}  
  
}  
  
gotoxy(10,15);  
  
mainmenu();  
  
}  
  
void searchitem()  
  
{  
  
system("cls");  
  
int d;  
  
printf("\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2Search  
Item\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\xB2\n");  
  
gotoxy(20,10);  
  
printf("1. Search By Code");  
  
gotoxy(20,14);
```

```
printf("2. Search By Name");

gotoxy( 15,20);

printf("Enter Your Choice");

fp=fopen("stf.dat","rb+");

rewind(fp);

switch(getch())

{

case '1':

{

system("cls");

gotoxy(25,4);

printf("\xB2\xB2\xB2\xB2\xB2\xB2Search Item By Code\xB2\xB2\xB2\xB2\xB2");

gotoxy(20,5);

printf("Enter the Item Code:");

scanf("%d",&d);

gotoxy(20,7);

while(fread(&a,sizeof(a),1,fp)==1)

{

if(a.id==d)

{

Sleep(2);

gotoxy(20,6);
```

```
printf("The Item is available\n");

gotoxy(20,8);

printf("Item Code:%d",a.id);

gotoxy(20,9);

printf("Category:%s",a.cat);

gotoxy(20,10);

printf("Name:%s",a.name);

gotoxy(20,11);

printf("Material:%s ",a.Material);

gotoxy(20,12);

printf("Quantity:%i ",a.Quantity);

gotoxy(20,13);

printf("Weight:%i",a.weight);

gotoxy(20,14);

printf("Karat:%i",a.karat);

gotoxy(20,d+15);

findstaff='t';

}

}

if(findstaff!='t')

{
```

```
printf("\aNo Record Found");

}

gotoxy(20,17);

printf("Try another search?(Y/N)");

if(getch()=='y')

searchitem();

else

mainmenu();

break;

}

case '2':

{

char s[15];

system("cls");

gotoxy(25,4);

printf("\xB2\xB2\xB2\xB2\xB2\xB2Search Item By Name\xB2\xB2\xB2\xB2\xB2\xB2");

gotoxy(20,5);

printf("Enter Item's Name:");

scanf("%s",s);

int d=0;

while(fread(&a,sizeof(a),1,fp)==1)

{
```

```
if(strcmp(a.name,(s))==0)

{

    gotoxy(20,d+7);

    //printf("The Staff is available");

    gotoxy(20,d+8);

    printf("Item Code:%d",a.id);

    gotoxy(20,d+10);

    printf("Name:%s",a.name);

    gotoxy(20,d+11);

    printf("Material:%s",a.Material);

    gotoxy(20,d+12);

    printf("Quantity:%i",a.Quantity);

    gotoxy(20,d+13);

    printf("Weight:%i",a.weight);

    gotoxy(20,d+14);

    printf("Karat:%i",a.karat);

    gotoxy(20,d+15);

    getch();

    d+=6;

}

}
```



```
if(d==0)
```

```
printf("\aNo Record Found");
```

```
gotoxy(20,d+11);
```

```
printf("Try another search?(Y/N)");
```

```
if(getch()=='y')
```

```
    searchitem();
```

```
else
```

```
    mainmenu();
```

```
break;
```

```
}
```

```
default :
```

```
    getch();
```

```
    searchitem();
```

```
}
```

```
fclose(fp);
```

```
}
```

```
void viewitem(void)
```

```
{
```

```
int i=0,j;
```

```
gotoxy(62,j);
```

```

printf("%i",a.weight);

gotoxy(76,j);

printf("%i",a.karat);

gotoxy(81,j);

printf("\n\n");

j++;

}

fclose(fp);

gotoxy(35,25);

returnfunc();

}

void edititem(void)

{

system("cls");

int c=0;

int d,e;

gotoxy(20,4);

printf("\xB2\xB2\xB2\xB2\xB2\xB2 Edit Items Section \xB2\xB2\xB2\xB2\xB2\xB2");

char another='y';

while(another=='y')

{

system("cls");

```

```
gotoxy(15,6);

printf("Enter Item's code to be edited:");

scanf("%d",&d);

fp=fopen("stf.dat","rb+");

while(fread(&a,sizeof(a),1,fp)==1)

{

if(checkid(d)==0)

{

gotoxy(15,7);

printf("The Item is available");

gotoxy(15,8);

printf("The Item's Code:%d",a.id);

gotoxy(15,9);

printf("Enter new name:");

scanf("%s",a.name);

gotoxy(15,10);

printf("Enter new Material:");

scanf("%s",a.Material);

gotoxy(15,11);

printf("Enter new Quantity:");

scanf("%i",&a.Quantity);

gotoxy(15,12);
```

```
printf("Enter new Weight Range:");

scanf("%i",&a.weight);

gotoxy(15,13);

printf("Enter new Karat:");

scanf("%i",&a.karat);

gotoxy(15,14);

printf("The record is modified");

fseek(fp,ftell(fp)-sizeof(a),0);

fwrite(&a,sizeof(a),1,fp);

fclose(fp);

c=1;

}

if(c==0)

{

gotoxy(15,9);

printf("No record found");

}

}

gotoxy(15,16);

printf("Modify another Record?(Y/N)");

fflush(stdin);

another=getch() ;
```

```
}

returnfunc();

}

void returnfunc(void)

{

{

gotoxy(15,20);

printf("Press ENTER to return to main menu");

}

a:

if(getch()==13)

mainmenu();

else

goto a;

}

int getdata()

{

int t;

gotoxy(20,3);

printf("Enter the Information Below");

gotoxy(20,4);

printf("Category:");
```

```
gotoxy(31,5);

printf("%s",catagories[s-1]);

gotoxy(21,6);

printf("Item Code:\t");

gotoxy(31,6);

scanf("%d",&t);

if(checkid(t) == 0)

{

gotoxy(21,13);

printf("\aThe Item Code already exists\a");

getch();

mainmenu();

return 0;

}

a.id=t;

gotoxy(21,7);

printf("Item's Name:");

gotoxy(33,7);

scanf("%s",a.name);

gotoxy(21,8);

printf("Material:");

gotoxy(30,8);
```

```
scanf("%s",a.Material);
```

```
gotoxy(21,9);
```

```
printf("Quantity:");
```

```
gotoxy(31,9);
```

```
scanf("%i",&a.Quantity);
```

```
gotoxy(21,10);
```

```
printf("Weight Range:");
```

```
gotoxy(34,10);
```

```
scanf("%i",&a.weight);
```

```
gotoxy(21,11);
```

```
printf("Karat:");
```

```
gotoxy(27,11);
```

```
scanf("%i",&a.karat);
```

```
gotoxy(21,11);
```

```
return 1;
```

```
}
```

```
int checkid(int t)
```

```
{
```

```
rewind(fp);
```

```
while(fread(&a,sizeof(a),1,fp)==1)
```



```
if(a.id==t)
```

```
return 0;
```

```
return 1;
```

```
}
```

```
int t(void)
```

```
{
```

```
time_t t;
```

```
time(&t);
```

```
printf("Date and time:%s\n",ctime(&t));
```

```
return 0 ;
```

```
}
```

```
void Password(void)
```

```
{
```

```
system("cls");
```

```
char d[25]="Password Protected";
```

```
char ch,pass[10];
```

```
int i=0,j;
```

```
printf("\t\t\t\tWELCOME\n\t\t\t\t To \n\t\t \xB2\xB2\xB2\xB2\xB2\xB2 Jewelry Store  
Management System \xB2\xB2\xB2\xB2\xB2\xB2\n");
```

```
printf("\t \n\n\n Enter Password:");
```

```
while(ch!=13)
```

```
{
```

```
ch=getch();
```

```
if(ch!=13 && ch!=8){
```

```
putch('*');
```

```
pass[i] = ch;
```

```
i++;
```

```
}
```

```
}
```

```
pass[i] = '\0';
```

```
if(strcmp(pass,password)==0)
```

```
{
```

```
printf("\n\n\n\t\tPassword matched!!");
```

```
printf("\n\n\tPress any key to countinue.....");
```

```
getch();
```

```
mainmenu();
```

```
}
```

```

else

{

printf("\n\n\n\t\tWarning!! \n\t Incorrect Password");

getch();

Password();

}

}

void calculatebill()
{
int custid, wgh, chr, rte, dis;
float chg, surchg=0, gramt,netamt;
char connm[25];
system("CLS");
printf("=====");
printf("\n");
printf("\tEnter Customer ID :");
scanf("%d",&custid);
printf("\n");
printf("\tEnter the Name of the Customer :");
scanf("%s",connm);
printf("\n");
printf("\tEnter the Weight (In Gram) : ");
scanf("%d",&wgh);
printf("\n");
printf("\tEnter Making Charges : ");
scanf("%d",&chr);
printf("\n");
printf("\tEnter Current Gold/Silver rate : ");
scanf("%d",&rte);
printf("\n");
printf("\tDiscount Amount $: ");
scanf("%d",&dis);
printf("=====");

printf("\n");
printf("\t Press Enter To Display Total Bill of Mr/Mrs :%s",connm);
getch();

```

```
system("CLS");  
    surchg = (rte*wgh)+chr-dis;  
    netamt = surchg;  
  
    printf("\n\t\t=====Jewelry Bill=====\\n");  
    printf("\t\tCustomer IDNO                :%d\\n",custid);  
    printf("\\n");  
    printf("\t\tCustomer Name                    :%s\\n",connm);  
    printf("\\n");  
    printf("\t\tTotal Weight                        :%d\\n",wgh);  
    printf("\\n");  
    printf("\t\tDiscount Amount                      :%d\\n",dis);  
    printf("\\n");  
    printf("\t\tSurcharge Amount                     :%.2f\\n",surchg);  
    printf("\\n");  
    printf("\t\tNet Amount Paid By the Customer      :%.2f\\n",netamt);  
    printf("\t\t=====\\n");  
  
getch();  
mainmenu();  
}
```