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PROJECT TITLE

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ABSRACT

A Departmental Store Management System (DSMS) is an application that executes a collection of protocols to co-ordinate the actions of multiple processes on a network, such that all components cooperate together to perform a single or small set of related tasks such as ordering , stocking , pricing, billing and delivery.

The advantages of a departmental store are: (1) Economies of Bulk Purchases (2) Providing Variety of Products (3) Convenience of Choice (4) Economy in Advertising (5) Centrally Located (6) Providing Services to Customers (7) Employing Specialists and (8) Lesser Selling Costs.

#### **(1) Economies of Bulk Purchases:**

A departmental store purchases its merchandise in large quantity thereby enjoying the economies in price, transportation cost and trade discounts etc.

#### **(2) Providing Variety of Products:**

A departmental store provides different varieties of products under one roof. It caters to the total needs of a customer at one place and they need not to go from one place to another for making purchases.

#### **(3) Convenience of Choice:**

The customers can select the goods of their own choice and taste from a large variety of goods of different quality and brands.

#### **(4) Economy in Advertising:**

Large scale advertising campaigns are undertaken by big departmental stores ensuring savings in advertising costs. At the same time advertisement of one department serves as the advertisement of the other department.

#### **(5) Centrally Located:**

Departmental stores are usually situated in crowded and central places of the city which attracts many customers thereby increasing the sales.

#### **(6) Providing Services to Customers:**

Departmental stores provide innumerable services to their customers. Some of the important services are free home delivery, after sales services, accepting orders on telephone and facilities like rest rooms, recreational facilities, restaurants, facilities of telephone, banks, post and telegraph services etc.

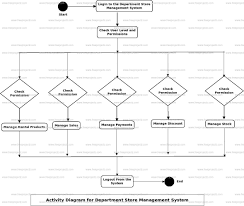
#### **(7) Employing Specialists:**

A departmental store is usually organized in the form of a joint stock company having huge finances. With the help of large funds, it can afford to employ specialists for purchasing, selling and advertising, etc. With the help of these experts, the departmental store can achieve efficiency in its functioning.

#### **(8) Lesser Selling Costs:**

On account of large volume of sales, selling cost per unit becomes very low.

FLOW CHART



PROGRAM

COORD coordinates= {0,0};

void gotocoordinate(int x,int y)

{

coordinates.X=x;

coordinates.Y=y;

SetConsoleCursorPosition(GetStdHandle(STD\_OUTPUT\_HANDLE),coordinates);

}

void cur(int);

void departmentbill();

void department\_menu();

void view(record \*,int,int);

void window\_screen(int,int,int,int);

void view\_concern();

void department\_search();

void h\_light(int,int);

void cal\_bill() ;

void modify();

void add\_stocks();

void delete\_stocks();

void exit();

void department\_menu()

{

int a;

char st;

const char \*menu[]= {" Calculate Bill"," Add Goods"," Edit Goods"," Display All "," Search", " Delete Goods"," Exit"};

system("cls");

//textbackground(11);

//textcolor(0);

//\_setcursortype(\_NOCURSOR);

window\_screen(25,50,20,32);

gotocoordinate(33,18);

printf("MAIN MENU");

for (a=0; a&lt;=6; a++)

{

gotocoordinate(30,22+a+1);

printf("%s\n\n\n",menu[a]);

}

cur(7);

}

void department\_search()

{

char st;

int a;

const char \*menu[]= {" By Code"," By Rate"," By Quantity"," Back to main menu"};

system("cls");

//textbackground(11);

//textcolor(0);

window\_screen(25,50,20,32);

gotocoordinate(33,18);

printf("SEARCH MENU");

for (a=0; a&lt;=3; a++)

{

gotocoordinate(30,22+a+1);

printf("%s\n\n\n",menu[a]);

}

cur(4);

}

void cal\_bill()

{

char c[4]= {0};

int d=29,e=0,size=0,f=1;

float d\_tot=0,gross\_tot=0;

FILE <em>openfile; openfile=fopen("record.txt","r+b"); rewind(openfile); system("cls"); departmentbill(); gotocoordinate(26,15); printf("enter \"end\" to finish input"); while(1) { gotocoordinate(25,18); printf(" "); gotocoordinate(25,19); printf(" "); gotocoordinate(25,18); printf("enter item code:"); scanf("%s",c); if(strcmp(c,"end")==0) break; gotocoordinate(25,19); printf("enter quantity:"); scanf("%d",&amp;e); rewind(openfile); while(fread(&amp;stocks,sizeof(stocks),1,openfile)) { if((strcmp(stocks.code,c)==0)) { d\_tot=stocks.rate</em>e;

gotocoordinate(11,d);

printf("%4d",f);

printf("%9s",stocks.name);

printf("%13d",e);

printf("%15.2f",stocks.rate);

printf("%13.2f",d\_tot);

gross\_tot=gross\_tot+d\_tot;

size=sizeof(stocks);

stocks.quantity=stocks.quantity-e;

d+=2;

f++;

fseek(openfile,-size,SEEK\_CUR);

fwrite(&amp;stocks,sizeof(stocks),1,openfile);

break;

}

}

}

if(gross\_tot!=0)

{

gotocoordinate(30,d+5);

printf("TOTAL AMOUNT = P%6.2f",gross\_tot);

}

fclose(openfile);

getch();

department\_menu();

}

void departmentbill()

{

int a;

gotocoordinate(20,10);

//;

for (a=1; a&lt;=10; a++)

printf("\*");

printf(" \* FASHION WEAR \* ");

for (a=1; a&lt;=10; a++)

printf("\*");

printf("\n\n");

gotocoordinate(30,11);

printf("Departmental Store");

//textcolor(1);

gotocoordinate(32,25);

printf("CUSTOMER'S BILL") ;

//textcolor(8);

gotocoordinate(13,27);

printf("SN. Item Name Quantity Rate Total");

}

void add\_stocks ()

{

FILE \*openfile;

char l[CBN],m[12];

system("cls");

//textbackground(11);

//textcolor(0);

gotocoordinate(25,25);

printf("Enter new record(Y/N)?");

while(toupper(getche())=='Y')

{

system("cls");

openfile=fopen("record.txt","ab");

checking\_code(l);

strcpy(stocks.code,l);

gotocoordinate(22,28);

printf("Enter rate of the item:");

scanf("%f",&amp;stocks.rate);

gotocoordinate(22,30);

printf("Enter quantity of the item:");

scanf("%d",&amp;stocks.quantity);

gotocoordinate(22,32);

printf("Enter name of the item:");

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

fseek(openfile,0,SEEK\_END);

fwrite(&amp;stocks,sizeof(stocks),1,openfile);

fclose(openfile);

gotocoordinate(22,34);

printf("Enter new record(Y/N)?");

} department\_menu();

}

void modify()

{

int flagerized=0,options;

char r[CBN],s[CBN];

FILE \*openfile;

int sze;

system("cls");

//textcolor(0);

//textbackground(11);

window\_screen(20,63,20,46);

gotocoordinate(35,18);

printf("EDIT RECORDS");

;

gotocoordinate(25,23);

printf("enter item code: ");

scanf("%s",r);

flagerized=checking(r);

if(flagerized==0)

{

openfile=fopen("record.txt","r+b");

rewind(openfile);

while (fread(&amp;stocks,sizeof (stocks),1,openfile))

{

if(strcmp(stocks.code,r)==0)

{

//textcolor(0);

gotocoordinate(25,27);

printf("name = %s",stocks.name);

gotocoordinate(25,28);

printf("code = %s",stocks.code);

gotocoordinate(25,29);

printf("rate = %g",stocks.rate);

gotocoordinate(25,30);

printf("quantity = %d",stocks.quantity);

gotocoordinate(25,32);;

printf("Do you want to edit this record?(y/n):");

fflush(openfile);

if(toupper(getche())=='Y')

{

//textcolor(0);

gotocoordinate(25,34);

printf("1- edit name ");

gotocoordinate(25,35);

printf("2- edit code ");

gotocoordinate(25,36);

printf("3- edit rate ");

gotocoordinate(25,37);

printf("4- edit quantity ");

gotocoordinate(25,39); ;

printf(" enter your choice(1, 2, 3, 4) ");

scanf("%d",&amp;options);

switch(options)

{

case 1:

system("cls");

window\_screen(23,48,20,40);

gotocoordinate(35,18);

printf("EDIT RECORDS");

gotocoordinate(25,24);

printf(" enter new name: ");

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

sze=sizeof(stocks);

fseek(openfile,-sze,SEEK\_CUR);

fwrite(&amp;stocks,sizeof(stocks),1,openfile);

break;

case 2:

system("cls");

window\_screen(23,65,20,40);

gotocoordinate(35,18);

printf("EDIT RECORDS");

gotocoordinate(25,24);

checking\_code(s);

strcpy(stocks.code,s);

sze=sizeof(stocks);

fseek(openfile,-sze,SEEK\_CUR);

fwrite(&amp;stocks,sizeof(stocks),1,openfile);

break;

case 3:

system("cls");

window\_screen(23,65,20,40);

gotocoordinate(35,18);

printf("EDIT RECORDS");

gotocoordinate(25,24);

printf(" enter new rate: ");

scanf("%f",&amp;stocks.rate);

sze=sizeof(stocks);

fseek(openfile,-sze,SEEK\_CUR);

fwrite(&amp;stocks,sizeof(stocks),1,openfile);

break;

case 4:

system("cls");

window\_screen(23,65,20,40);

gotocoordinate(35,18);

printf("EDIT RECORDS");

gotocoordinate(25,24);

printf(" enter new quantity: ");

scanf("%d",&amp;stocks.quantity);

sze=sizeof(stocks);

fseek(openfile,-sze,1);

fwrite(&amp;stocks,sizeof(stocks),1,openfile);

break;

}

gotocoordinate(27,30);

printf("--- item edited---");

break;

}

}

}

}

if (flagerized==1)

{

gotocoordinate(32,30);

printf("Item does not exist.");

gotocoordinate(36,32);

printf("TRY ABGAIN");

}

getch();

fclose(openfile);

department\_menu();

}

void depart\_all()<br>{<br>int a,d=1;<br>FILE <em>openfile; view\_concern(); openfile=fopen("record.txt","rb"); rewind(openfile); a=26; fflush(openfile); while(fread(&amp;stocks,sizeof(stocks),1,openfile)) { view(&amp;stocks,a,d); a++; d++; if ((d%20)==0) { gotocoordinate(27,47);/</em>textcolor(0)\*/;<br>printf("Press any key to see more………..");<br>getch();<br>system("cls");<br>view\_concern();<br>a=26;<br>continue;<br>}<br>}<br>getch();<br>if (a==26)<br>{<br>gotocoordinate(24,30);<br>printf("-- no articles found --");<br>}<br>getch();<br>fclose(openfile);<br>department\_menu();<br>}

void depart\_qty()

{

int s,t=1;

int p,q;

FILE \*openfile;

view\_concern();

openfile=fopen("record.txt","rb");

rewind(openfile);

s=26;

gotocoordinate(16,20);;

printf("Enter lower range: ");

scanf("%d",&amp;p);

gotocoordinate(16,21);

printf("Enter upper range:");

scanf("%d",&amp;q);

fflush(openfile);

while(fread(&amp;stocks,sizeof(stocks),1,openfile))

{

if((stocks.quantity&gt;=p)&amp;&amp;(stocks.quantity&lt;=q))

{

view(&amp;stocks,s,t);

s++;

t++;

if ((t%20)==0)

{

gotocoordinate(27,47);

printf("Press any key to see more………..");

getch();

system("cls");

view\_concern();

s=26;

continue;

}

}

}

getch();

if (s==26)

{

gotocoordinate(28,30);

printf(" No items found.");

}

getch();

department\_search();

fclose(openfile);

}

void delete\_stocks()<br>{<br>int flagerized;<br>char d[CNN];<br>FILE <em>openfile,</em>openfile1;<br>system("cls");<br>//textbackground(11);<br>//textcolor(0);<br>window\_screen(23,51,25,34);<br>gotocoordinate(29,18);<br>printf("DELETE ARTICLES");<br>gotocoordinate(27,27);<br>printf("enter item code: ");<br>scanf("%s",d);<br>flagerized=checking(d);<br>if(flagerized==0)<br>{<br>openfile1=fopen("record1.txt","ab");<br>openfile=fopen("record.txt","rb");<br>rewind(openfile);<br>while (fread(&amp;stocks,sizeof (stocks),1,openfile))<br>{<br>if(strcmp(stocks.code,d)!=0)<br>fwrite(&amp;stocks,sizeof(stocks),1,openfile1);<br>}<br>gotocoordinate(27,29);<br>printf("---item deleted---");<br>remove("record.txt");<br>rename("record1.txt","record.txt");<br>}<br>if (flagerized==1)<br>{<br>gotocoordinate(25,29);<br>printf("---item does not exist---");<br>gotocoordinate(30,31);<br>printf("TRY AGAIN");<br>}<br>fclose(openfile1);<br>fclose(openfile);<br>getch();<br>department\_menu();<br>}

int checking(char x[CNN])

{

FILE \*openfile;

int flagerized=1;

openfile=fopen("record.txt","rb");

rewind(openfile);

while (fread(&amp;stocks,sizeof (stocks),1,openfile))

{

if(strcmp(stocks.code,x)==0)

{

flagerized=0;

break;

}

}

fclose(openfile);

return flagerized;

}

This function is for the displaying of box

In the code given below, which is for the function to display the box.(Department Store Management System Project in C)

void window\_screen(int a,int b,int c,int d)

{

int v;

system("cls");

gotocoordinate(20,10);

//textcolor(1);

for (v=1; v&lt;=10; v++)

printf("\*");

printf(" \* FASHION WEAR \* ");

for (v=1; v&lt;=10; v++)

printf("\*");

printf("\n\n");

gotocoordinate(30,11);

printf("Department Store");

//textcolor(4);

for (v=a; v&lt;=b; v++)

{

gotocoordinate(v,17);

printf("\xcd");

gotocoordinate(v,19);

printf("\xcd");

gotocoordinate(v,c);

printf("\xcd");

gotocoordinate(v,d);

printf("\xcd");

}

gotocoordinate(a,17); printf("\xc9"); gotocoordinate(a,18); printf("\xba"); gotocoordinate(a,19); printf("\xc8"); gotocoordinate(b,17); printf("\xbb"); gotocoordinate(b,18); printf("\xba"); gotocoordinate(b,19); printf("\xbc");

//textcolor(4);

for(v=c; v&lt;=d; v++)

{

gotocoordinate(a,v);

printf("\xba");

gotocoordinate(b,v);

printf("\xba");

}

gotocoordinate(a,c);

printf("\xc9");

gotocoordinate(a,d);

printf("\xc8");

gotocoordinate(b,c);

printf("\xbb");

gotocoordinate(b,d);

printf("\xbc");

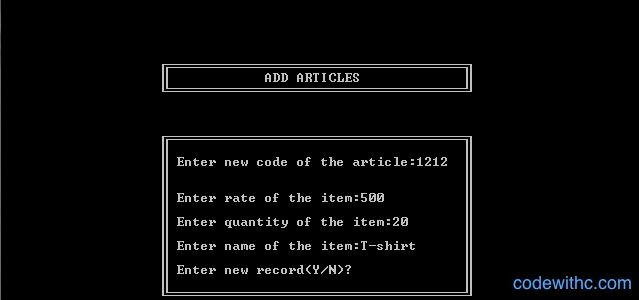
//textbackground(11);

//textcolor(0);

}

RESULT





DECLARATION

I am very thankful to Dr. R RAJKUMAR (DSBS) SCHOOL OF COMPUTING , SRMIST for leading me in the right direction and helping me with the project and achieving the goal of successfully executing and getting the result of the project . It was a great experience putting in all the effort for the project and i would like to thank the faculty for cooperating and showing exceptional support and believing in me.

RERERENCES

www.google.com

https://www.codewithc.com/mini-project-in-c-department-store-management-system/