# A PROJECT REPORT

#### ON

**DEPATMENTAL STORE MANAGEMENT** SYSTEM

**DIPLOMA IN**

**COMPUTER SCIENCE AND TECHNOLOGY**

SUBMITTED TO

**WEST BENGAL STATE OF TECHNICAL & VOCATIONAL EDUCATION DEVELOPMENT**

# West Bengal State Council of Technical &amp; Vocational Education and Skill Development

|  |  |
| --- | --- |
| **Name of Student** | **Registration No.** |
| Arijit Hati | D181920076 |
|  |  |
|  |  |
|  |  |

**GUIDED BY**

## (BIKASH MONDAL)



RAJENDRANATH COLLEGE OF

POLYTECHNIC



RAJENDRANATH COLLEGE OF POLYTECHNIC

**CERTIFICATE**

# This is to certify that the project report entitled “Departmental store management system” Was successfully completed by Student of sixth semester Diploma in (Computer Science & Technology).

ARIJIT HATI D181920076

# In partial fulfillment of the requirements for the award of the Diploma in Computer Science And Technology and submitted to the Department of Computer Science And Technology of Rajendranath College of Polytechnic during a period for the academic year 2018-2021 as per curriculum.

## Name of Guide Name of HOD

BIKASH MONDAL BIKASH MONDAL

**ACKNOWLEDGMENT**

## This project is done as a semester project, as a part course titled

**“DEPARTMENTAL STORE MANAGEMENT SYSTEM** “We are really thankful to our course the Principal **Prof. TONMOY SINGHA** and the HOD **BIKASH MONDAL**, COMPUTER SCIENCE OF TECHNOLOGY, Durgapur, Rajendranath college of polytechnic for his invaluable guidance and assistance, without which the accomplishment of the task would have never been possible.

We also thank **Bikash Mondol** for giving this opportunity to explore into the real world and realize the interrelation without which a Project can never progress. In our present project we have chosen the topic **“Departmental store management system”.**

## We are also thankful to parents, friend and all staff of for providing us relevant information and necessary clarifications, and great support.

**SOURCE CODE**

#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

#include<string.h>

#include<ctype.h>

#include<windows.h>

#define ANS 15

#define ACS 4

COORD coord= {0,0}; // this is global variable

void gotoxy(int x,int y)

{

coord.X=x;

coord.Y=y;

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

}

/\*declaration of checking functions\*/

void c\_code(char[]);

int check(char[]);

/\*structure declaration\*/

typedef struct

{

char name[ANS],code[ACS];

float rate;

int quantity;

} rec;

rec item;

/\*declaration of display functions\*/

void curser(int);

void dbill();

void d\_mainmenu();

void display(rec \*,int,int);

void window(int,int,int,int);

void dis\_con();

void d\_search();

void highlight(int,int);

/\*declaration of main menu functions\*/

void bill() ;

void edit();

void add();

void del();

void exit();

/\*declaration of display submenu functions\*/

void d\_code();

void d\_rate();

void d\_quan();

void d\_all();

/\*start of main\*/

int main()

{

d\_mainmenu();

return 0;

}

void d\_mainmenu()

{

int i;

char ch;

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

system("cls");

//textbackground(11);

//textcolor(0);

//\_setcursortype(\_NOCURSOR);

window(25,50,20,32);

gotoxy(33,18);

printf("MAIN MENU");

for (i=0; i<=6; i++)

{

gotoxy(30,22+i+1);

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

}

curser(7);

}

void d\_search()

{

char ch;

int i;

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

system("cls");

//textbackground(11);

//textcolor(0);

window(25,50,20,32);

gotoxy(33,18);

printf("SEARCH MENU");

for (i=0; i<=3; i++)

{

gotoxy(30,22+i+1);

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

}

curser(4);

}

/\*function for cursor movement\*/

void curser(int no)

{

int count=1;

char ch='0';

gotoxy(30,23);

while(1)

{

switch(ch)

{

case 80:

count++;

if (count==no+1) count=1;

break;

case 72:

count--;

if(count==0) count=no;

break;

}

highlight(no,count);

ch=getch();

if(ch=='\r')

{

if(no==7)

{

if (count==1) bill() ;

else if(count==2) add();

else if(count==3) edit();

else if (count==4) d\_all();

else if (count==5) d\_search();

else if (count==6) del();

else exit(0);

}

if(no==4)

{

if (count==1) d\_code();

else if (count==2)d\_rate();

else if (count==3) d\_quan();

else d\_mainmenu();

}

}

}

}

void highlight(int no,int count)

{

if (no==4)

{

//textbackground(11);

//textcolor(0);

gotoxy(30,23);

printf(" By Code ");

gotoxy(30,24);

printf(" By Rate ");

gotoxy(30,25);

printf(" By Quantity ");

gotoxy(30,26);

printf(" Back to main menu");

//textcolor(0);

//textbackground(2);

switch (count)

{

case 1:

gotoxy(30,23);

printf(" - By Code ");

break;

case 2:

gotoxy(30,24);

printf(" - By Rate ");

break;

case 3:

gotoxy(30,25);

printf(" - By Quantity ");

break;

case 4:

gotoxy(30,26);

printf(" - Back to main menu");

break;

}

}

if(no==7)

{

//textbackground(11);

//textcolor(0);

gotoxy (30,23);

printf(" Calculate Bill ");

gotoxy (30,24);

printf(" Add Goods ");

gotoxy (30,25);

printf(" Edit Goods ");

gotoxy (30,26);

printf(" Display All ");

gotoxy (30,27);

printf(" Search ");

gotoxy (30,28);

printf(" Delete Goods ");

gotoxy (30,29);

printf(" Exit ");

//textcolor(0);

//textbackground(2);

switch(count)

{

case 1:

gotoxy (30,23);

printf(" -> Calculate Bill ");

break;

case 2:

gotoxy (30,24);

printf(" -> Add Goods ");

break;

case 3:

gotoxy (30,25);

printf(" -> Edit Goods ");

break;

case 4:

gotoxy (30,26);

printf(" -> Display All ");

break;

case 5:

gotoxy (30,27);

printf(" -> Search ");

break;

case 6:

gotoxy (30,28);

printf(" -> Delete Goods ");

break;

case 7:

gotoxy (30,29);

printf(" -> Exit ");

break;

}

}

}

void bill()

{

char x[4]= {0};

int j=29,q=0,size=0,i=1;

float total=0,gtotal=0;

FILE \*file;

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

rewind(file);

system("cls");

dbill();

gotoxy(26,15);

printf("enter \"end\" to finish input");

while(1)

{

gotoxy(25,18);

printf(" ");

gotoxy(25,19);

printf(" ");

gotoxy(25,18);

printf("enter item code:");

scanf("%s",x);

if(strcmp(x,"end")==0)

break;

gotoxy(25,19);

printf("enter quantity:");

scanf("%d",&q);

rewind(file);

while(fread(&item,sizeof(item),1,file))

{

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

{

total=item.rate\*q;

gotoxy(11,j);

printf("%4d",i);

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

printf("%13d",q);

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

printf("%13.2f",total);

gtotal=gtotal+total;

size=sizeof(item);

item.quantity=item.quantity-q;

j+=2;

i++;

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

fwrite(&item,sizeof(item),1,file);

break;

}

}

}

if(gtotal!=0)

{

gotoxy(30,j+5);

printf("TOTAL AMOUNT = INRs. %6.2f",gtotal);

}

fclose(file);

getch();

d\_mainmenu();

}

/\*function to display bill window\*/

void dbill()

{

int i;

gotoxy(20,10);

//;

for (i=1; i<=10; i++)

printf("\*");

printf(" \* ALL IN ONE \* ");

for (i=1; i<=10; i++)

printf("\*");

printf("\n\n");

gotoxy(30,11);

printf("Departmental Store");

//textcolor(1);

gotoxy(32,25);

printf("CUSTOMER'S BILL") ;

//textcolor(8);

gotoxy(13,27);

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

}

/\*function to add records\*/

void add ()

{

FILE \*file;

char y[ACS],x[12];

system("cls");

//textbackground(11);

//textcolor(0);

gotoxy(25,25);

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

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

{

system("cls");

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

c\_code(y);

strcpy(item.code,y);

gotoxy(22,28);

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

scanf("%f",&item.rate);

gotoxy(22,30);

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

scanf("%d",&item.quantity);

gotoxy(22,32);

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

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

fseek(file,0,SEEK\_END);

fwrite(&item,sizeof(item),1,file);

fclose(file);

gotoxy(22,34);

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

}

d\_mainmenu();

}

/\*function to check availability of code\*/

void c\_code(char y[])

{

int flag;

FILE \*file;

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

while(1)

{

system("cls");

window(20,58,23,36);

gotoxy(32,18);

printf(" ADD ARTICLES ") ;

flag=1;

rewind(file);

gotoxy(22,25);

printf("Enter new code of the article:");

scanf(" %[^\n]",y);

while(fread(&item,sizeof(item),1,file)==1)

{

if (strcmp(y,item.code)==0)

{

flag=0;

gotoxy(26,30);

printf("code already exists");

gotoxy(29,32);

printf("enter again");

getch();

break;

}

}

if (flag==1)

break;

}

}

/\*function for editing\*/

void edit()

{

int flag=0,choice;

char x[ACS],y[ACS];

FILE \*file;

int size;

system("cls");

//textcolor(0);

//textbackground(11);

window(20,63,20,46);

gotoxy(35,18);

printf("EDIT RECORDS");

;

gotoxy(25,23);

printf("enter item code: ");

scanf("%s",x);

flag=check(x);

if(flag==0)

{

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

rewind(file);

while (fread(&item,sizeof (item),1,file))

{

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

{

//textcolor(0);

gotoxy(25,27);

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

gotoxy(25,28);

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

gotoxy(25,29);

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

gotoxy(25,30);

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

gotoxy(25,32);;

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

fflush(file);

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

{

//textcolor(0);

gotoxy(25,34);

printf("1-> edit name ");

gotoxy(25,35);

printf("2-> edit code ");

gotoxy(25,36);

printf("3-> edit rate ");

gotoxy(25,37);

printf("4-> edit quantity ");

gotoxy(25,39); ;

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

scanf("%d",&choice);

switch(choice)

{

case 1:

system("cls");

window(23,48,20,40);

gotoxy(35,18);

printf("EDIT RECORDS");

gotoxy(25,24);

printf(" enter new name: ");

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

size=sizeof(item);

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

fwrite(&item,sizeof(item),1,file);

break;

case 2:

system("cls");

window(23,65,20,40);

gotoxy(35,18);

printf("EDIT RECORDS");

gotoxy(25,24);

c\_code(y);

strcpy(item.code,y);

size=sizeof(item);

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

fwrite(&item,sizeof(item),1,file);

break;

case 3:

system("cls");

window(23,65,20,40);

gotoxy(35,18);

printf("EDIT RECORDS");

gotoxy(25,24);

printf(" enter new rate: ");

scanf("%f",&item.rate);

size=sizeof(item);

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

fwrite(&item,sizeof(item),1,file);

break;

case 4:

system("cls");

window(23,65,20,40);

gotoxy(35,18);

printf("EDIT RECORDS");

gotoxy(25,24);

printf(" enter new quantity: ");

scanf("%d",&item.quantity);

size=sizeof(item);

fseek(file,-size,1);

fwrite(&item,sizeof(item),1,file);

break;

}

gotoxy(27,30);

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

break;

}

}

}

}

if (flag==1)

{

gotoxy(32,30);

printf("Item does not exist.");

gotoxy(36,32);

printf("TRY AGAIN");

}

getch();

fclose(file);

d\_mainmenu();

}

/\*function to display all records\*/

void d\_all()

{

int i,j=1;

FILE \*file;

dis\_con();

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

rewind(file);

i=26;

fflush(file);

while(fread(&item,sizeof(item),1,file))

{

display(&item,i,j);

i++;

j++;

if ((j%20)==0)

{

gotoxy(27,47);/\*textcolor(0)\*/;

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

getch();

system("cls");

dis\_con();

i=26;

continue;

}

}

getch();

if (i==26)

{

gotoxy(24,30);

printf("--> no articles found <--");

}

getch();

fclose(file);

d\_mainmenu();

}

/\*function to display by quantity\*/

void d\_quan()

{

int i,j=1;

int a,b;

FILE \*file;

dis\_con();

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

rewind(file);

i=26;

gotoxy(16,20);;

printf("Enter lower range: ");

scanf("%d",&a);

gotoxy(16,21);

printf("Enter upper range:");

scanf("%d",&b);

fflush(file);

while(fread(&item,sizeof(item),1,file))

{

if((item.quantity>=a)&&(item.quantity<=b))

{

display(&item,i,j);

i++;

j++;

if ((j%20)==0)

{

gotoxy(27,47);

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

getch();

system("cls");

dis\_con();

i=26;

continue;

}

}

}

getch();

if (i==26)

{

gotoxy(28,30);

printf(" No items found.");

}

getch();

d\_search();

fclose(file);

}

/\*function to display by rate\*/

void d\_rate()

{

int i,j=1;

float a,b;

FILE \*file;

dis\_con();

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

rewind(file);

i=26;

gotoxy(16,20);;

printf("enter lower range: ");

scanf("%f",&a);

gotoxy(16,21);

printf("enter upper range: ");

scanf("%f",&b);

fflush(file);

while(fread(&item,sizeof(item),1,file))

{

if((item.rate>=a)&&(item.rate<=b))

{

display(&item,i,j);

i++;

j++;

if ((j%20)==0)

{

gotoxy(27,47);

printf("press any key to see more...........");

getch();

system("cls");

dis\_con();

i=26;

continue;

}

}

}

getch();

if (i==26)

{

gotoxy(28,30);

printf(" no item found ");

}

getch();

fclose(file);

d\_search();

}

/\*function to display by code\*/

void d\_code()

{

int i,j=1;

char x[4]= {0};

FILE \*file;

dis\_con();

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

rewind(file);

i=26;

gotoxy(16,20);;

printf("enter item code: ");

scanf("%s",x);

fflush(file);

while(fread(&item,sizeof(item),1,file))

{

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

{

display(&item,i,j);

i++;

j++;

break;

}

}

if (i==26)

{

gotoxy(28,30);

printf("no item found");

}

getch();

fclose(file);

d\_search();

}

/\*function to display window for item display\*/

void dis\_con()

{

int i;

system("cls");

gotoxy(20,10);

;

for (i=1; i<=10; i++)

printf("\*");

printf(" \* ALL IN ONE STORE \* ");

for (i=1; i<=10; i++)

printf("\*");

printf("\n\n");

gotoxy(30,11);

printf("Departmental Store");

//textcolor(1);

gotoxy(32,17);

printf("RECORDS") ;

//textcolor(8);

gotoxy(18,23);

printf ("SN Item Name Item Code Rate Quantity");

}

/\*function to display in screen\*/

void display(rec \*item,int i,int j)

{

gotoxy(16,i);//textcolor(13);

printf("%4d",j);

printf("%9s",item->name);

printf("%12s",item->code);

printf("%14.2f",item->rate);

printf("%11d",item->quantity);

}

/\*function to delete records\*/

void del()

{

int flag;

char x[ANS];

FILE \*file,\*file1;

system("cls");

//textbackground(11);

//textcolor(0);

window(23,51,25,34);

gotoxy(29,18);

printf("DELETE ARTICLES");

gotoxy(27,27);

printf("enter item code: ");

scanf("%s",x);

flag=check(x);

if(flag==0)

{

file1=fopen("record1.txt","ab");

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

rewind(file);

while (fread(&item,sizeof (item),1,file))

{

if(strcmp(item.code,x)!=0)

fwrite(&item,sizeof(item),1,file1);

}

gotoxy(27,29);

printf("--->item deleted<---");

remove("record.txt");

rename("record1.txt","record.txt");

}

if (flag==1)

{

gotoxy(25,29);

printf("--->item does not exist<---");

gotoxy(30,31);

printf("TRY AGAIN");

}

fclose(file1);

fclose(file);

getch();

d\_mainmenu();

}

/\*function to check validity of code while editing and deleting\*/

int check(char x[ANS])

{

FILE \*file;

int flag=1;

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

rewind(file);

while (fread(&item,sizeof (item),1,file))

{

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

{

flag=0;

break;

}

}

fclose(file);

return flag;

}

/\*function to display box\*/

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

{

int i;

system("cls");

gotoxy(20,10);

//textcolor(1);

for (i=1; i<=10; i++)

printf("\*");

printf(" \* ALL IN ONE STORE \* ");

for (i=1; i<=10; i++)

printf("\*");

printf("\n\n");

gotoxy(30,11);

printf("Departmental Store");

//textcolor(4);

for (i=a; i<=b; i++)

{

gotoxy(i,17);

printf("\xcd");

gotoxy(i,19);

printf("\xcd");

gotoxy(i,c);

printf("\xcd");

gotoxy(i,d);

printf("\xcd");

}

gotoxy(a,17);

printf("\xc9");

gotoxy(a,18);

printf("\xba");

gotoxy(a,19);

printf("\xc8");

gotoxy(b,17);

printf("\xbb");

gotoxy(b,18);

printf("\xba");

gotoxy(b,19);

printf("\xbc");

//textcolor(4);

for(i=c; i<=d; i++)

{

gotoxy(a,i);

printf("\xba");

gotoxy(b,i);

printf("\xba");

}

gotoxy(a,c);

printf("\xc9");

gotoxy(a,d);

printf("\xc8");

gotoxy(b,c);

printf("\xbb");

gotoxy(b,d);

printf("\xbc");

//textbackground(11);

//textcolor(0);

}