Cafeteria order management system

By-

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Abstract

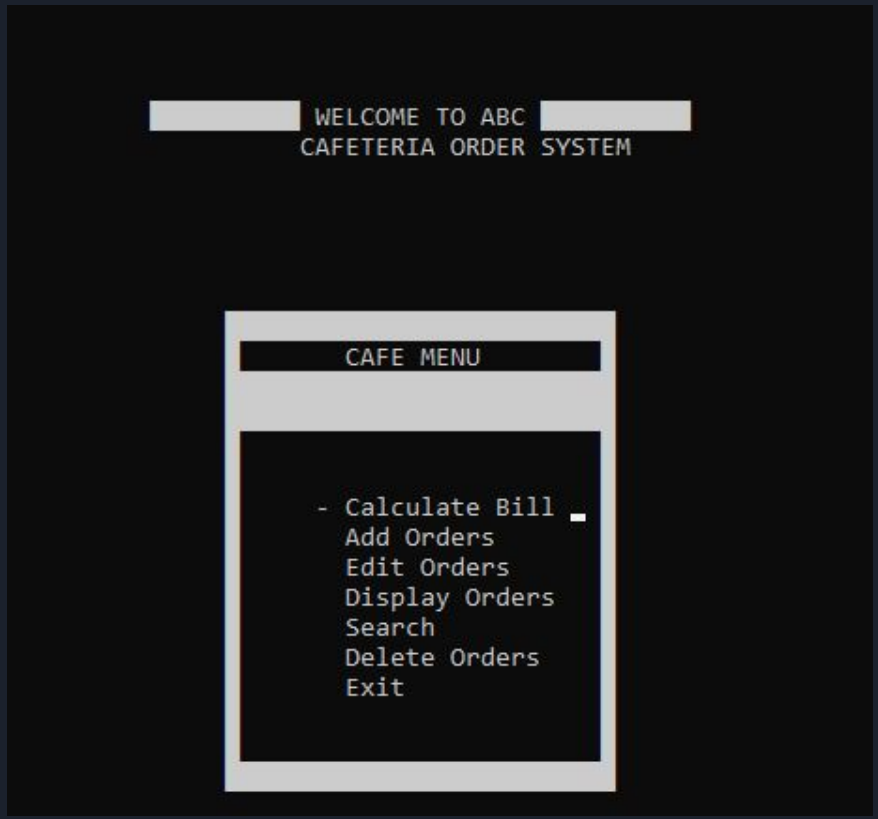
Cafeteria management system is specially designed for the purpose of calculating total bill in a cafe and adding ordered item’s record.

This whole project is made using ‘C’ programming. It is basic and can be advanced with the help of various extensions and source codes.

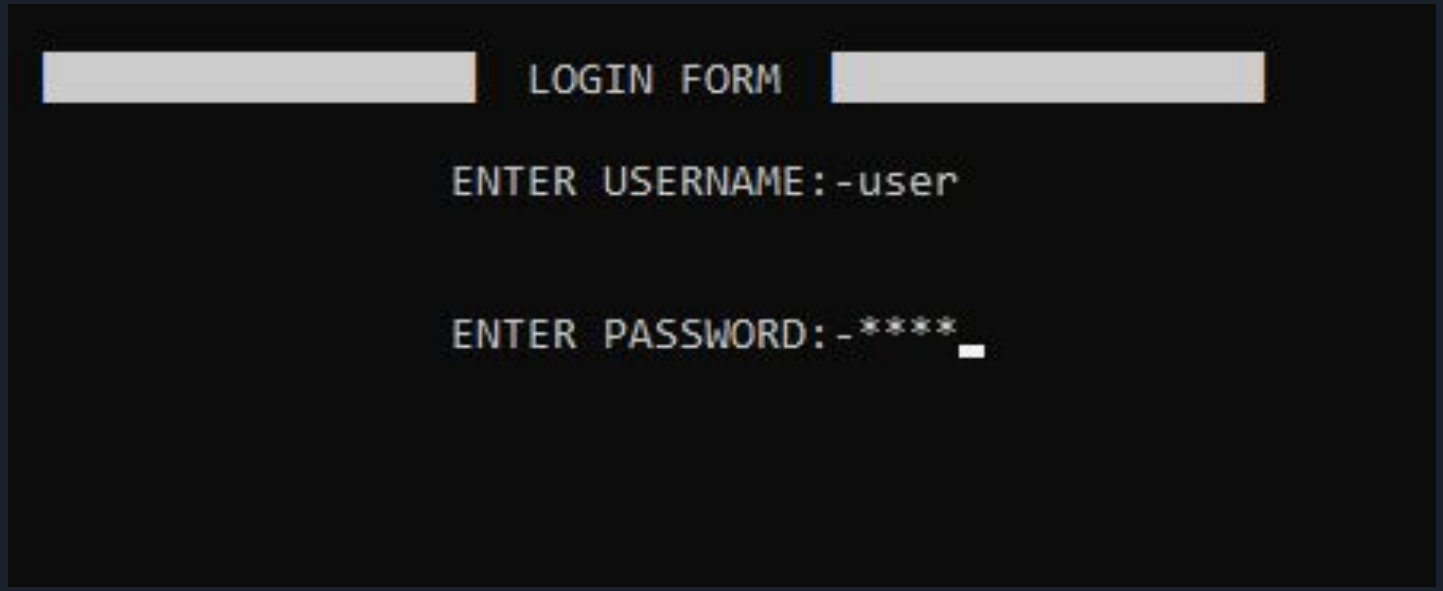
- We can add an admin.
- Calculate the total amount and display the bill.
- We can keep a log of all purchases made.
- Design is simple user can easily navigate through.
- Easy to add, view and correct order

Output-

Welcome Page

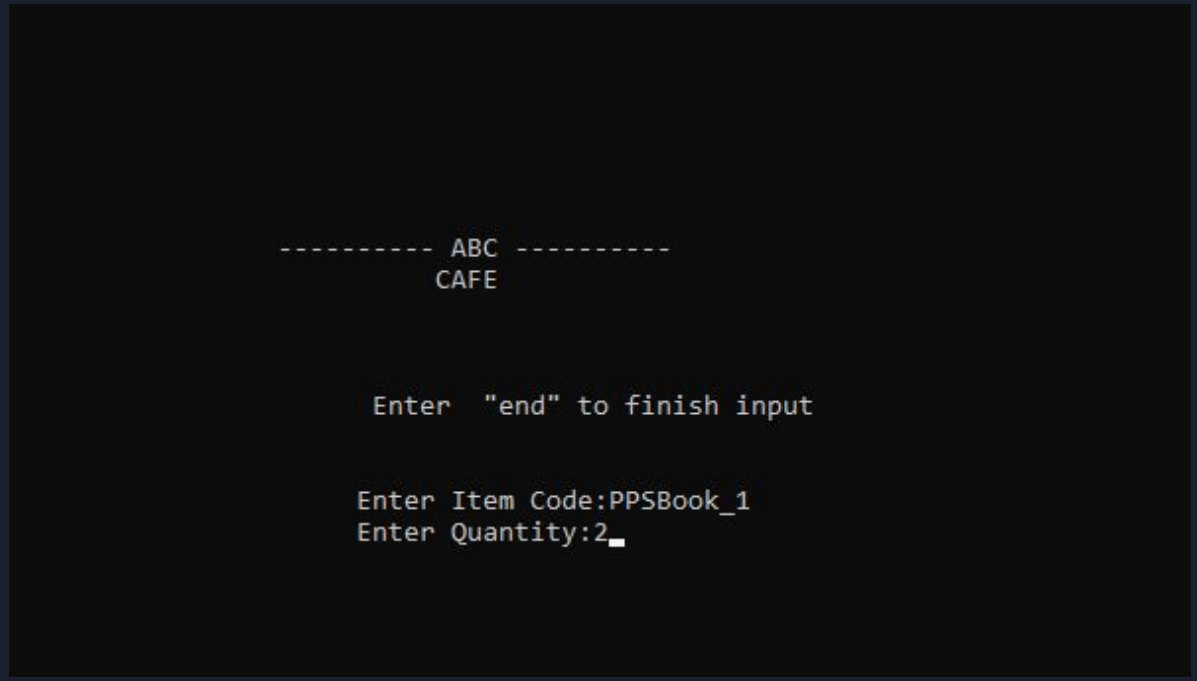


Login *Page*



To Print bill-

Enter your Item Code
And the quantity



*Enter end and your **bill** is Displayed*

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();
```

```
    char uname[10],c=' ';
    char pword[10],code[10];
    char user[10]="user";
    char pass[10]="pass";
    do
{

    printf("\n  \xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\
LOGIN FORM  \xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\xdb\    ");
    printf(" \n\n                    ENTER USERNAME:-");
      scanf("%s", &uname);
      printf(" \n\n                     ENTER PASSWORD:-");
      while(i<10)
      {
          pword[i]=getch();
          c=pword[i];
          if(c==13) break;
          else printf("*");
          i++;
      }
      pword[i]='\0';
      //char code=pword;
      i=0;
      //scanf("%s",&pword);
            if(strcmp(uname,"user")==0 && strcmp(pword,"pass")==0)
      {
      printf("  \n\n\n       WELCOME TO CAFETERIA ORDER SYSTEM !!!! LOGIN IS
SUCCESSFUL");
      printf("\n\n\n\t\t\t\tPress any key to continue...");
      getch();//holds the screen
      break;
      }
      else
      {
            printf("\n        SORRY !!!!  LOGIN IS UNSUCESSFUL");
            a++;

            getch();//holds the screen

      }
}
      while(a<=2);
      if (a>2)
      {
            printf("\nSorry you have entered the wrong username and password for four
times!!!");

            getch();

            }
            system("cls");

}
```

Source Code

```
/*start of main*/
int main()
{
      login();
    d_mainmenu();
    return 0;
}

void d_mainmenu()
{
    int i;
    char ch;
    const char *menu[]= {"   Calculate Bill","   Order Items","   Edit Items","
Display Orders  ","   Search Orders", "   Delete Orders","   Exit"};
    system("cls");
//textbackground(11);
//textcolor(0);
//_setcursortype(_NOCURSOR);
    window(25,50,20,32);
    gotoxy(33,18);
    printf("CAFE 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);
```

```
    char x[ANS];
    FILE *file,*file1;
    system("cls");
//textbackground(11);
//textcolor(0);
    window(23,51,25,34);
    gotoxy(29,18);
    printf("DELETE ORDERS");
    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;
        }
    }
```

```
        {
            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("\xdb");
    printf(" ABC ");
    for (i=1; i<=10; i++)
        printf("\xdb");
    printf("\n\n");
    gotoxy(30,11);
    printf(" CAFE");
//textcolor(1);
    gotoxy(32,17);
    printf("DISPLAYING ALL ORDERS") ;
//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;
```

```
    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("\xdb");
    printf(" WELCOME TO ABC ");
    for (i=1; i<=10; i++)
        printf("\xdb");
    printf("\n\n");
    gotoxy(30,11);
    printf("CAFETERIA ORDER SYSTEM");
//textcolor(4);
    for (i=a; i<=b; i++)
    {
        gotoxy(i,17);
        printf("\xdb");
        gotoxy(i,18);
        printf("\xdb");
        gotoxy(i,c);
        printf("\xdb");
        gotoxy(i,d);
        printf("\xdb");
    }

    gotoxy(a,17);
    printf("\xdb");
    gotoxy(a,18);
    printf("\xdb");
    gotoxy(a,19);
    printf("\xdb");
    gotoxy(b,17);
    printf("\xdb");
    gotoxy(b,18);
    printf("\xdb");
    gotoxy(b,19);
    printf("\xdb");
//textcolor(4);
    for(i=c; i<=d; i++)
    {
        gotoxy(a,i);
        printf("\xdb");
        gotoxy(b,i);
        printf("\xdb");
    }
    gotoxy(a,c);
    printf("\xdb");
    gotoxy(a,d);
```

```
    printf("\xdb");
    gotoxy(b,c);
    printf("\xdb");
    gotoxy(b,d);
    printf("\xdb");
//textbackground(11);
//textcolor(0);
}
```

Thank you!