

ABOUT THE PROJECT

This project is designed to be used in a restaurant using structures and files. It consists of 4 main operations which are:

Login: - It enters the details about the user such as the login id, login password and id type.

Menu: - It enters the items of the menu through the administrator along with the prices. It displays the menu in a different function and it modifies the menu in another function.

Order: - It first displays the entire menu the user can select from the menu and place an order.

Stock: - the stock is managed by the administrator and it can modify the stock according to the input.

MAIN TOPICS

Structures:

Stock: - This structure is used for handling stock details which includes item name and quantity.

Login: -This structure is used for handling login details which includes login Id, password and account type.

Date: - This structure is used for handling date which includes day, month and year.

Order: - This structure is used for handling order details which includes name, phone number, item code, price and date.

Menu: - This structure is used for handling menu details which includes dish name, code and price.

Functions:

Elogin():- function used for entering the login details

Emenu():- function used for entering the menu details

Eorder():- function used for entering the order details

Estock():- function used for entering the stock details

Main():- this function is used to handle all the functions

Momenu():- function used for modifying the menu details

Mstock():- function used for modifying the stock details

Selogin():- function used to search from login details

Shlogin():- function used to show login details

Shmenu():- function used to show menu details

Shorder():- function used to show order details

Shstock():- function used to show stock details

Sshorder():- function used to show particular order

Xit():- function used to exit the program

Files:

Login: - This file saves all the data related to login which includes login Id, password and account type.

Menu: - This file saves all the data related to the menu items which includes dish name, code and price.

Stock: - This file saves all the data related to the stock which includes item name and quantity.

Order: - This file saves all the data related to the orders which includes name, phone number, item code, price and date.

HEADER FILES USED

#include <stdio.h>: is a statement which tells the compiler to insert the contents of stdio at that particular place.

Stdio.h is the header file for standard input and output. This is useful for getting the input from the user (Keyboard) and output result text to the monitor (screen). Without this header file, one cannot display the results to the users on the screen or cannot input the values through the keyboard.

#include <conio.h>: the conio.h header file contains certain library functions that let us perform input and output operation.

Functions like printf (), getch () and scanf () need "#include<conio.h>" header file to be included for us to use them in our program.

#include <string.h>: It is the header in the C standard library for the C programming language which contains macro definitions, constants and declarations of functions and types used not only for string handling but also various memory handling functions.

Functions like str.cmp () need "#include<string.h>" header file to be included for us to use them in our program.

#include <dos.h>: Dos.h header file of C language contains functions for handling interrupts, producing sound, date and time functions etc.

Functions like "sleep" need "#include <dos.h>" header file to be included for us to use them in our program.

Code Snippets

```
#include <stdio.h>
#include <conio.h>
#include <string.h>
#include <dos.h>
#include <time.h>
struct stock
                     //item name
  char in[100];
  int sn;
                      //stock quantity
} s[100];
struct login
                     //login id
//password
//Type of user administrator (a) or normal user (u)
  char lid[30];
  char pwd[30];
  char type;
}1[100];
struct date
  int day;
  int month;
  int year;
} d[100];
```

```
117
     void shstock()
118 🖵 {
119
      FILE *fp;
120
      int i,j,a,cou=0;
      char cha,id[20],pwd[20];
fp = fopen("stock.txt","r");
121
122
      if(fp == NULL)
123
124 🚍
125
          printf("\nerror in file login.\n");
126
          getch();
127
128
      int coun=0;
      cha=' ';
129
130
      while(cha!=EOF)
131
          fscanf(fp,"%s",&s[coun].in);
132
          fscanf(fp,"%d",&s[coun].sn);
133
134
          cha=fgetc(fp);
135
         coun++;
136
      printf("\n
137
                                     Item Details\n\n");
      printf("+-----
printf("|Item Name
138
                                                              ----+\n");
139
                                  Item Quantity
                                                                     \n");
      printf("+-----
140
                                                     ----+\n");
141
      while(cou<coun)
142
          printf("%s",s[cou].in);
143
144
          if(cou!=coun)
145 🖃
             printf("\t\t\t\t\t\d\n",s[cou].sn);
146
147
148
          cou++;
149
      printf("\n+-----+\n");
150
151
      fclose(fp);
152 L
      }
```

```
318
        void shmenu()
319
320 🖵
321
         FILE *fp;
322
         int i,j,a,cou=0;
         char cha,id[20],pwd[20];
323
324
         fp = fopen("menu.txt","r");
         if(fp == NULL)
325
326 🖵
327
               printf("\nerror in file login.\n");
328
               getch();
329
330
         int coun=0;
         cha=' ';
331
         while(cha!=EOF)
332
333
              fscanf(fp, "%s",&m[coun].name);
fscanf(fp, "%d",&m[coun].co);
fscanf(fp, "%d",&m[coun].ra);
334
335
336
337
              cha=fgetc(fp);
338
              coun++;
339
         printf("\n
printf("+-----
340
                                                       Menu Details\n\n");
                                                                                                  ----+\n");
341
         printf("|Dish Name
printf("+----
342
                                                                                    Rate
                                                                                                        \n");
                                                                                   -----+\n");
343
344
         while(cou≺coun)
345
             printf("%s",m[cou].name);
printf("\t\t\t\d",m[cou].co);
printf("\t\t\t\d",m[cou].ra);
printf("\n");
346
347
348
349
350
              cou++;
351
352
         printf("+--
                                                                                     ----+\n");
353
         fclose(fp);
      rscanr(rp, %s, %ar[coun].pwu);
fscanf(fp, " %c",&l[coun].type);
      cha=fgetc(fp);
printf("\n
scanf("%s",&id);
                                                      Enter the Login ID : ");
printf("\n
                                              Enter the Login Password : ");
fflush(stdin);
int y=0;
pwd[y]=getch();
while(pwd[y]!='\x0D')
     printf("*");
    y++;
     pwd[y] = getch();
pwd[y]='\0';
printf("\n");
for(i=0;i<coun;i++)
      if(strcmpi(1[i].lid,id) == 0\&\&strcmpi(1[i].pwd,pwd) == 0\&\&(1[i].type == 'A' | | 1[i].type == 'a'))
           a = 1;
           break;
      else if(strcmp(l[i].lid,id)==0&&strcmpi(l[i].pwd,pwd)==0&&(l[i].type=='N'||l[i].type=='n'))
           a = 0;
           break;
      else
fclose(fp);
return a;
```

```
char cha,id[20];
fp = fopen("order.txt", "r");
if(fp == NULL)
     printf("\nerror in file login.\n");
     getch();
    }
int coun=0;
cha=' ';
while(cha!=EOF)
     fscanf(fp, "%s", &o[coun].name);
fscanf(fp, "%s", &o[coun].pno);
fscanf(fp, "%d", &o[coun].c);
     fscanf(fp, "%d", &o[coun].r);
     fscanf(fp, "%d/%d/%d", &o[coun].d.day, &o[coun].d.month, &o[coun].d.year);
     cha=fgetc(fp);
     coun++;
printf("\n
                    Selected Customer Details\n\n");
printf("Enter the Name for which you want to search data : ");
scanf("%s",&id);
printf("+----+\n");
printf("|Name Phone No Code Rate Date |\n");
printf("+-----+\n");
while(cou≺coun)
      if(strcmpi(o[cou].name,id)==0)
          printf("%s\t",o[cou].name);
printf("%s\t",o[cou].pno);
         printf("%d\t",o[cou].c);
          printf("%d\t",o[cou].r);
          printf("%d/%d/%d",o[cou].d.day,o[cou].d.month,o[cou].d.year);
printf("\n");
          a++;
printf("\t\You need to prove that you are a valid user or administrator.\n\n\n");
a = selogin();
if(a==0)
  {
    printf("\n\t\t\tYou are Normal User.\n");
    ch = getch();
    if(ch!='&')
     {
       tapri:
       system("cls");
       system("COLOR 30");
       system("COLOR B1");
       printf("+----
                                                            ----+\n");
                     Enter 1 For Ordering The Food |\n");
Enter 2 For Viewing The Orders |\n");
Enter 3 For Viewing The Stock |\n");
       printf("|
       printf("
       printf("
       printf("
                         Enter 4 For Viewing The Menu
                                                                     \n");
       printf("|
printf("|
                      Enter 5 For Back
Enter 6 For Exit
                                                                     \n");
                                                                     \n");
       printf("+----+\n");
printf(" Enter Your Choice : ");
       scanf("%d",&an);
       if(an==1||an==2||an==3|an==4)
             system("cls");
             system("COLOR 40");
            system("COLOR B5");}
             switch(an)
                 case 1 : eorder(o);
                   getch();
```

```
921
          else if(a==1)
922 🗀
             printf("\n\t\t\tYou are a administrator.\n");
923
924
             ch = getch();
925 🗀
               {
926
                  qwerty:
927
                    system("cls");
                    system("COLOR 30");
system("COLOR B1");
928
929
930
                    printf("+--
                                       Enter 1 For Entering The Stock
931
                    printf("
                                                                                          \n");
                                       Enter 2 For Viewing The Stock
                                                                                          \n");
932
                    printf("
933
                    printf("
                                       Enter 3 For Modifying The Stock
                                                                                          \n");
934
                                       Enter 4 For Entering The Menu
                                                                                          \n");
                    printf("
                                       Enter 5 For Showing The Menu
935
                    printf("
                                                                                          \n");
936
                    printf("
                                       Enter 6 For Modifying The Menu
                                                                                          \n");
                                       Enter 7 For Entering The Login Details
                                                                                          \n");
937
                    printf("
938
                    printf("
                                       Enter 8 For Showing The Login Details
                                                                                          \n");
                                                                                          \n");
939
                                       Enter 9 For Entering The Order Details
                    printf("
                                       Enter 10 For Searching a particular order
                                                                                          \n");
940
                    printf("
                                                                                          \n");
941
                    printf("
                                       Enter 11 For Viewing all the orders
942
                    printf("
                                       Enter 12 For Back
                                                                                          \n");
                                                                                          \n");
943
                    printf("|
                                       Enter 13 For Exit
944
                    printf("
                                                                                          +\n");
945
                    printf("
                                Enter Your Choice : ");
                     scanf("%d",&an);
946
                    if(an=-1||an=-2||an=-3||an=-4||an=-5||an=-6||an=-7||an=-8||an=-9||an=-10||an=-11||an=-12||an=-13)
947
948 🗀
949
                         system("cls");
                         system("COLOR 40");
system("COLOR B5");}
950
951
                         switch(an)
952
                    case 12 : for(i=1;i<=30;i++)
                                  Sleep(10);
                                  printf("*");
                             printf(" Logging You Out ");
                              for(i=1;i<=30;i++)
                                  Sleep(10);
                                  printf("*");
                              goto x;
                             break;
                    case 13 : xit();
                             printf("\n\n");
                             printf("\n\n");
                             printf("**********************************\n\n\n");
      }
else
    printf("\t\t\tYou are not a valid user.\n\t\tIf you want to login again, Enter Y for Yes : ");
    fflush(stdin);
    scanf("%c",&ch);
    if(ch=='y' || ch=='Y')
          system("cls");
          goto x;
   }
```

Output Photos

Item Details					
Item Name	Item Quantity	i i			
Almonds	455				
Matar	10				
Honey	10				
Fruits	100				
Chicken	12				
Egg	45				
Coffee	2				
Fish	23				
Cashew	8				
+		+			

Menu Details						
Dish Name	Code	Rate				
gg	151	8				
pizza	150	240				
laggi	101	45				
osa	102	60				
amosa	103	20				
hienia	105	180				
atika	106	150				
achori	109	30				
asta a	110	90				

	Login Details	
Login Id	Password	Туре
yush	Jain1234	А
lemant	pass1245	N
Salema	Password	Α

Order Details						
Name	Phone No	Code	Rate	Date		
Ayush	9876543210	105	180	19/9/2019		
Keshav	0123456789	110	90	19/9/2019		
Ayush	9876543210	102	60	19/9/2019		
Om	5478963210	150	240	19/9/2019		
Priyal	1234578960	151	8	19/9/2019		
Yash	3578964125	101	45	19/9/2019		
Anmol	542136987	105	180	19/9/2019		
+				+		

Conclusion

To summarize, this project is about managing restaurants. It will be helpful in many restaurants as it makes it easier for the administrators, waiters as well as the customers.