INTERNET CAFÉ MANAGEMENT



A Course Project Report in the course

Problem Solving with Programming

School of Computer Science & Artificial Intelligence

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PROJECT DESCRIPTION

Cyber Café Management is also known as Internet Café Management.

Now we have our own Laptop/PC at our home but, in olden days there are hardly few people who have it. People who can't afford to have a PC/Laptop found themselves in a difficult situation. Around 1980's there is a significant change in Internet history. More and More people found of using PC. This was because of Internet Café's. Cyber Café is a store with so many computers connected in a network that provides Internet access to public with a nominal fee. There is one head of store, we call him as ADMIN. He checks and allots Computers to everyone. People who come to Café are referred as USERS.

This project consists of 2 parts:

- 1) ADMIN part
- 2) USER part

First of all, we have to login as ADMIN or as USER.

→ If you choose as ADMIN, then it asks admin name and admin password. If the entered values are correct, then it asks "Whether you want to add no of computers in your shop" (NOTE: - This is to be done when it way your first time of compilation). This creates a file with given IP address. After this it takes you to ADMIN's Work i.e.,

INSERT New Customer Details

DISPLAY Customer Details

DELETE Customer Details

PRINT BILL

ADD NEW Computer

SEE Feedback of Customer

Depend on requirement you can select anything.

INSERT - displays non filled Computes and assigns last IP addressed file and Customer details, admin himself creates password of the user and stores in it. If all the Computers are filled, then it says TO WAIT FOR SOME TIME.

DISPLAY - displays all the details of customer who are in the Café and displays all the empty Computers.

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DELETE – deletes the Details of customer. (This is to be selected after Printing the Bill).

PRINTING BILL – printing the bill after completion of the user's work. It depends on how many Minutes he spends in the Café. If he spends around 1 hour, this means he has to give 60 Rupees to the ADMIN.

ADDING New Computer – If admin Installs more Computers in Café. He Can add IP address of each Computer here.

SEEING feedback – After user's work, he is asked to give the Experience of the Café. That can be seen here.

→ If you choose as USER, then it asks username and password given by ADMIN. If the entered values are correct, then it makes the user to do his work and starts the time. If he wants to end his work, he needs to click on "CTRL+Z" and the ENTER (this means EOF). Then the end time is recorded. The difference and bill are calculated. At last User is asked to provide the feedback.

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PROJECT CODE

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
char fileName[20],ipadd[20];;
long int start, end;
void user_work();
long int login time();
void login user();
void new_choice();
void see_feedback();
void new_pc();
void print_bill();
void delete customer();
void display();
void insert();
void admin work();
void admin();
void choice admin();
int main(){
     int ch:
     printf("\n \t \t \t 1)Login as Admin");
     printf("\n \n \t\t\t 2)Login as User");
     printf("\n \n \n \t\t Enter Your choice(1/2):");
     scanf("%d",&ch);
     fflush(stdin);
     switch(ch){
          case 1:
 printf("\n\n\t------);
                printf("\n\t\t\t--ADMIN LOGIN--");
                printf("\n\t-----
                choice admin();
                break;
          case 2:
                printf("\n\n\t-----
                printf("\n\t\t\t\t-USER LOGIN--");
                printf("\n\t-----
                login_user();
                break;
          default: printf("\n\n ENTER VALID NUMBER");
                main();
```

```
return o;
}
void choice admin(){
     char adminName[20],password[10];
     printf("\n\t Enter User Name:");
     gets(adminName);
     printf("\n\t Enter Password:");
     gets(password);
     if(strcmp(adminName, "Group15")==0)
          if(strcmp(password,"123456789")==0)
                printf("\n\n\t-----
                printf("\n\t-----
                printf("\n\t\t\t\WELCOME\ BACK\ ADMIN");
                printf("\n\t-----
               printf("\n\t-----
                admin();
          }
          else
          {
                printf("\n\t Entered Password Was Wrong! Fail to login!!\n");
                choice_admin();
          }
     }
     else
     {
          printf("\n\t Entered User Name Was Wrong! Fail to login!!\n");
          choice admin();
     }
}
void admin(){
     int no;
     printf("\n Whether you want to add no of computers in your shop(1st time)(1-
yes, any number for no):");
     scanf("%d",&no);
     fflush(stdin);
     if(no==1)
     {
          char ipA[20];
          int NoOfCom,i;
          FILE *filePointer;
          filePointer=fopen("IPaddress.txt","w");
          printf("\n enter no of PC/Laptops:");
```

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```
scanf("%d",&NoOfCom);
             fflush(stdin);
             for(i=0;i<NoOfCom;i++)
                    printf("\n enter your computer %d ip address:",i+1);
                    gets(ipA);
                    fprintf(filePointer,"%s\n",ipA);
                    FILE *creFileIp;
                    strcat(ipA,".txt");
                    creFileIp=fopen(ipA,"w");
                    fclose(creFileIp);
             fclose(filePointer);
      admin work();
}
void admin_work(){
      int adminChoice;
      printf("\n\t\t\t\t ----");
      printf("\n\t\t\t\t Admin Work");
      printf("\n\t\t\t\t -----");
      printf("\n\t\t 1)Insert New Customer Details");
      printf("\n\t\t\t 2)Display Customer Details");
      printf("\n\t\t\t 3)Delete Customer Details");
      printf("\n\t\t\t 4)Print Bill");
      printf("\n\t\t\t 5)Add new PC/Laptop");
      printf("\n\t\t\t 6)See Feedback");
      printf("\n\t\t\t 7)GOTO Main");
      printf("\n\t\t\t 8)exit");
      printf("\n\n\t Enter Your Choice:");
      scanf("%d",&adminChoice);
      fflush(stdin);
      switch(adminChoice)
      {
             case 1:
                    insert();
                    break;
             case 2:
                    display();
                    break;
             case 3:
                    display();
                    delete_customer();
                    display();
                    break;
             case 4:
                    print bill();
                    break;
             case 5:
                    new_pc();
```

```
break;
             case 6:
                    see_feedback();
                    break;
             case 7:
                    main();
                    break;
             case 8:
                    exit(o);
                    break;
             default:printf("\n\t Enter valid Number!!");
                    admin work();
      new_choice();
}
void insert(){
      FILE *ins_point,*fp;
      int i=0;
      char
h,ipAd[20],matter,ipAdCopy[20],custName[20],custPhone[11],custPass[10];
      ipAdCopy[o]='\o';
      ins_point=fopen("IPaddress.txt","r");
      h=fgetc(ins_point);
      for(;h!=EOF;)
             if(h!='\n')
                    ipAd[i]=h;
                    i++;
             else
                    ipAd[i]='\o';
                    strcat(ipAd,".txt");
                    fp=fopen(ipAd,"r");
                    matter=fgetc(fp);
                    if(matter==EOF)
                           strcpy(ipAdCopy,ipAd);
                           ipAdCopy[i]='\o';
                           printf("\n\t\t %s PC is unfilled",ipAdCopy);
                    fclose(fp);
                    i=0;
             h=fgetc(ins point);
      fclose(ins_point);
      if(ipAdCopy[o]=='\o')
      {
```

```
printf("\n\n\t There Are No PC's Left. Please Wait For Some Time");
      }
      else
      {
            fflush(stdin);
            printf("\n\n\t\t Enter Customer Name:");
            gets(custName);
            printf("\n\t\t Enter Customer Phone Number:");
            gets(custPhone);
            printf("\n\t\t Enter Customer Password :");
            gets(custPass);
            strcat(ipAdCopy,".txt");
            ins_point=fopen(ipAdCopy,"w");
            fprintf(ins_point,"%s\n",custName);
            fprintf(ins_point,"%s\n",custPhone);
            fprintf(ins_point,"%s\n",custPass);
            fclose(ins_point);
            for(i=o;ipAdCopy[i]!='t';i++);
            ipAdCopy[i-1]='\0';
            printf("\n\n\t Congratulations!! %s has been alloated %s
PC",custName,ipAdCopy);
            printf("\n\t-----");
      }
}
void display(){
      int i=0,j;
      char h,ipa[20],matter;
      FILE *ipAddress,*fileSearch;
      ipAddress=fopen("IPaddress.txt","r");
      h=fgetc(ipAddress);
      for(;h!=EOF;)
      {
            if(h!='\n')
                   ipa[i]=h;
                   i++;
            else
                   ipa[i]='\o';
                   strcat(ipa,".txt");
                   fileSearch=fopen(ipa,"r");
                   matter=fgetc(fileSearch);
                   for(j=0;ipa[j]!='t';j++);
                   ipa[j-1]='\0';
                   if(matter!=EOF)
                         printf("\n\n\t The details of %s customer are:\n",ipa);
                         for(;matter!=EOF;)
                          {
```

```
printf("%c",matter);
                                  matter=fgetc(fileSearch);
                           printf("\n");
                    else
                           printf("\n\t %s is empty",ipa);
                    fclose(fileSearch);
                    i=0;
             h=fgetc(ipAddress);
      fclose(ipAddress);
}
void delete_customer(){
       int i=0;
       char h,ipDel[20],delIp[20];
       printf("\n\t Enter IP address of PC to be Deleted:");
       gets(delIp);
       FILE *IpAdFile,*fp;
      IpAdFile=fopen("IPaddress.txt","r");
       h=fgetc(IpAdFile);
       for(;h!=EOF;)
       {
             if(h!='\n')
                    ipDel[i]=h;
                    i++;
             else
                    ipDel[i]='\o';
                    if(strcmp(ipDel,delIp)==0)
                           strcat(ipDel,".txt");
                           fp=fopen(ipDel,"w");
                           fclose(fp);
                           printf("\n\t Congratulations Your Customer Details are
deleted!!");
                    i=0;
             h=fgetc(IpAdFile);
      fclose(IpAdFile);
}
void print_bill(){
```

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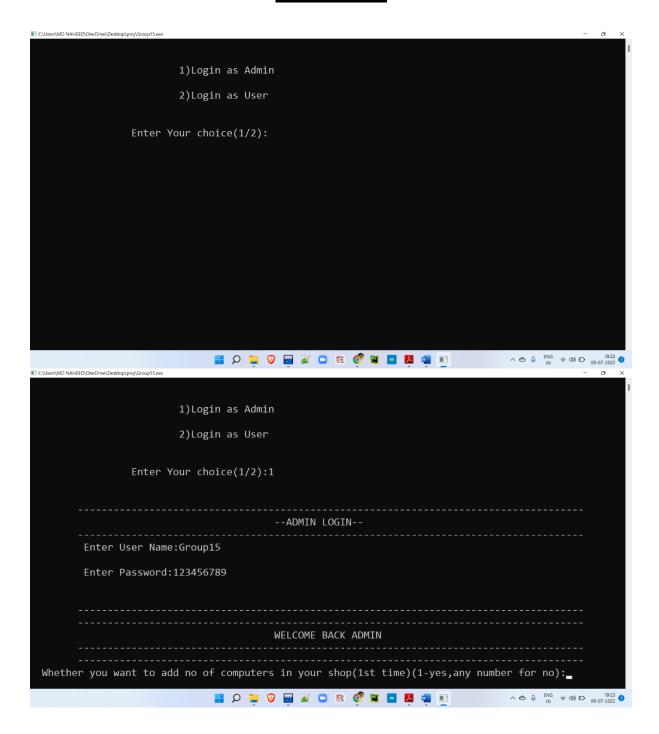
```
long int res;
      res=end-start;
      if(res > = 1)
      {
            res=res*0.01667;
      }
      printf("\n\n\t\t\----");
      printf("\n %s --YOUR BILL IS %ld Rupee(s)",fileName,res);
      printf("\n\t\t\t-----");
}
void new_pc(){
      char ipA[20];
      int NoOfCom,i;
      FILE *filePointer;
      filePointer=fopen("IPaddress.txt","a");
      printf("\n enter no of PC/Laptops to add:");
scanf("%d",&NoOfCom);
      fflush(stdin);
      for(i=o;i<NoOfCom;i++)
            printf("\n enter your computer %d ip address:",i+1);
            gets(ipA);
            fprintf(filePointer,"%s\n",ipA);
            FILE *creFileIp;
            strcat(ipA,".txt");
            creFileIp=fopen(ipA,"w");
            fclose(creFileIp);
      fclose(filePointer);
      printf("\n\n\t SUCCESFULLY ADDED NEW PC/LAPTOP");
}
void see_feedback(){
      printf("\n\n");
      char h;
      FILE *p;
      p=fopen("feedBack.txt","r");
      h=fgetc(p);
      for(;h!=EOF;)
      {
            printf("%c",h);
            h=fgetc(p);
      fclose(p);
}
void new choice(){
      int choice;
      printf("\n\n\t\t\t o)ENTER o TO EXIT");
      printf("\n\t\t\t1)ENTER 1 TO GO TO MAIN");
```

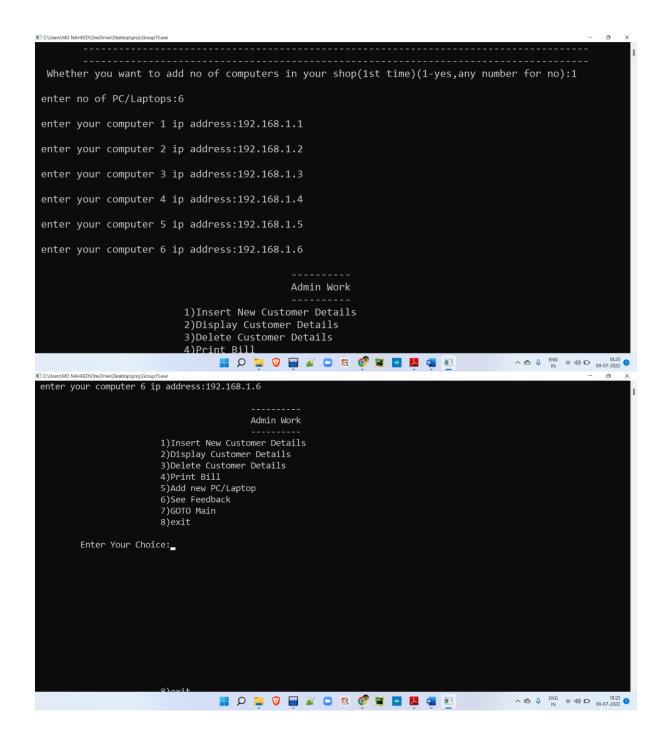
```
printf("\n\t\t\t 2)ENTER 2 TO GO TO BACK TO ADMIN WORK");
      printf("\n Enter:");
      scanf("%d",&choice);
      switch(choice)
      {
             case 1:
                   main();
                   break;
             case 2:
                   admin_work();
                   break:
             case o:
                   exit(o);
             default:printf("\n Enter valid number!!");
                   new choice();
      }
}
void login user(){
      char fb[30];
      int i=0, j=0, f=0;
      FILE *fileOpen,*feed;
      char Password[10],s[20],h,filePass[10],filePhone[11];
      printf("\n\t Enter Your IP Address:");
      gets(ipadd);
      printf("\n\t Enter Password given by admin:");
      gets(Password);
      strcat(ipadd,".txt");
      fileOpen=fopen(ipadd,"r");
      if(fileOpen==NULL)
             printf("\n\n\t\t PLEASE ENTER VALID IP ADDRESS");
             main();
      }
      else
             h=fgetc(fileOpen);
             if(h==EOF)
                   printf("\n\n\t\tYOUR DETAILS ARE NOT UPLOADED.
PLEASE WAIT OR PLEASE ENTER VALID IP ADDRESS");
                   main();
             for(;h!=EOF;)
                   if(h!='\n')
                          s[i]=h;
                          i++;
                   else
```

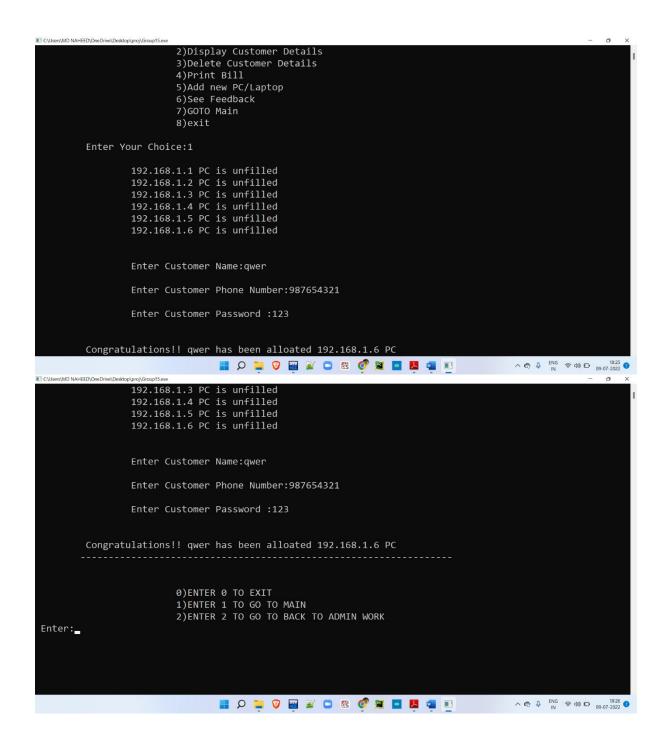
```
{
                          s[i]='\o';
                          if(j==0)
                                 strcpy(fileName,s);
                          else if(j==1)
                                 strcpy(filePhone,s);
                          else if(j==2)
                                 if(strcmp(s,Password)!=o)
                                       printf("\n\n\t!!ENTERED PASSWORD IS
INCORRECT!!");
                                       login_user();
                                 else
                                 {
                                       printf("\n\n\t\t\t Welcome
%s",fileName);
                                        fclose(fileOpen);
                                        f++;
                                        start=login time();
                                        user_work();
                                        end=login_time();
                                 }
                          i=o;
                   h=fgetc(fileOpen);
             }
      if(f==0)
             fclose(fileOpen);
      printf("\n\n\t\t THANK YOU FOR COIMING TO OUR SHOP");
      printf("\n Can You Please give your feedback:");
      feed=fopen("feedBack.txt","a");
      printf("enter your feedback:");
      gets(fb);
      fprintf(feed,"%s\t%s\t%s\n",fileName,filePhone,fb);
      fclose(feed);
      main();
}
long int login_time(){
```

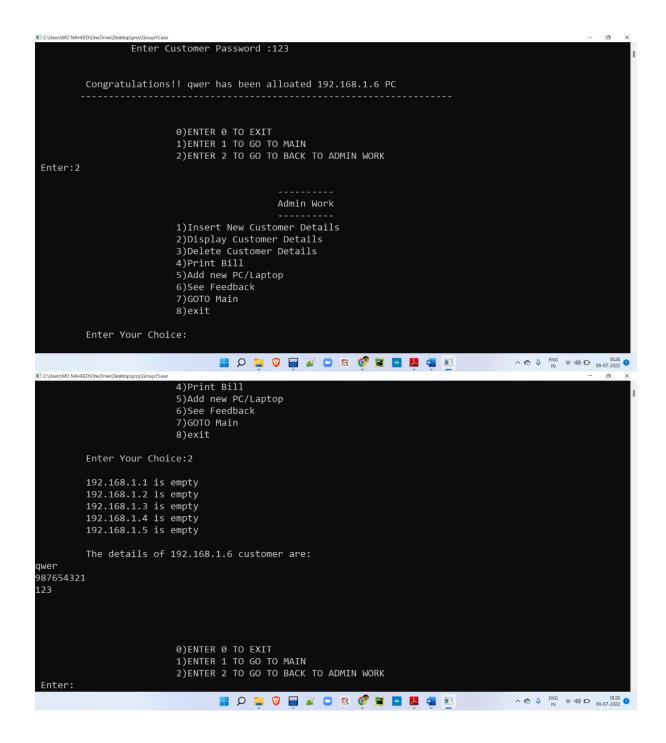
```
FILE *fileOpen;
      time_t ti;
      ti=time(NULL);
      char *h=ctime(&ti);
      fileOpen=fopen(ipadd,"a");
      fprintf(fileOpen,"%s",h);
      fclose(fileOpen);
      return ti;
}
void user_work(){
      char h;
      printf("\n\nEnter Anything to do Your Work(Enter ' 'ctrl+z' +Enter' after
completion of your work):");
      h=getchar();
      for(;h!=EOF;)
             h=getchar();
      }
}
```

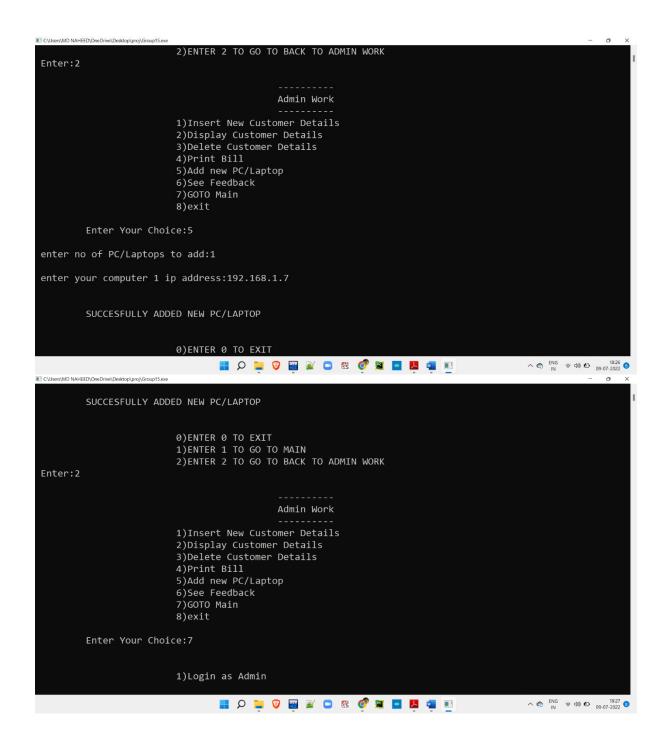
OUTPUT

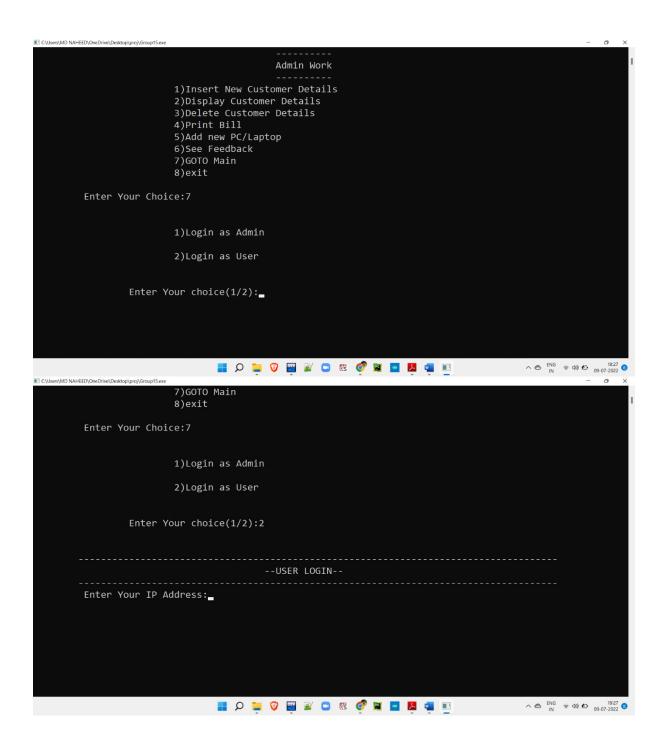




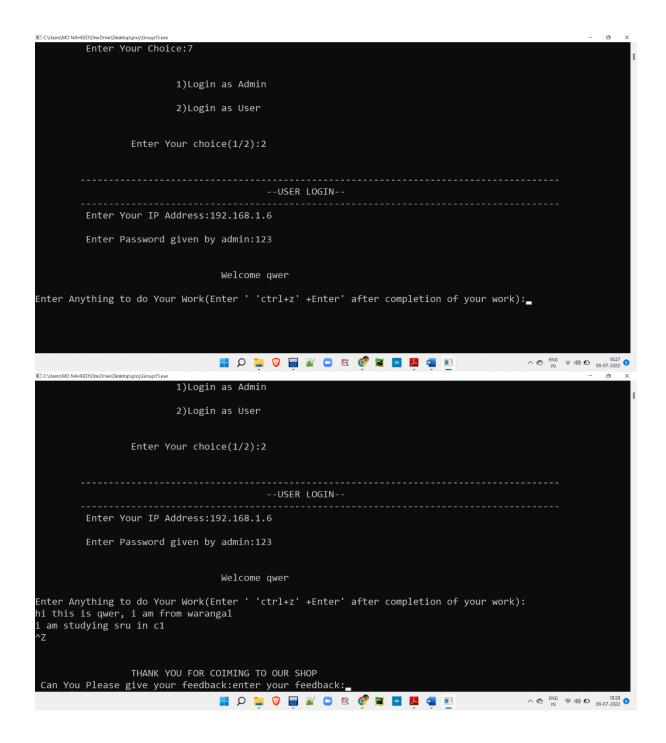


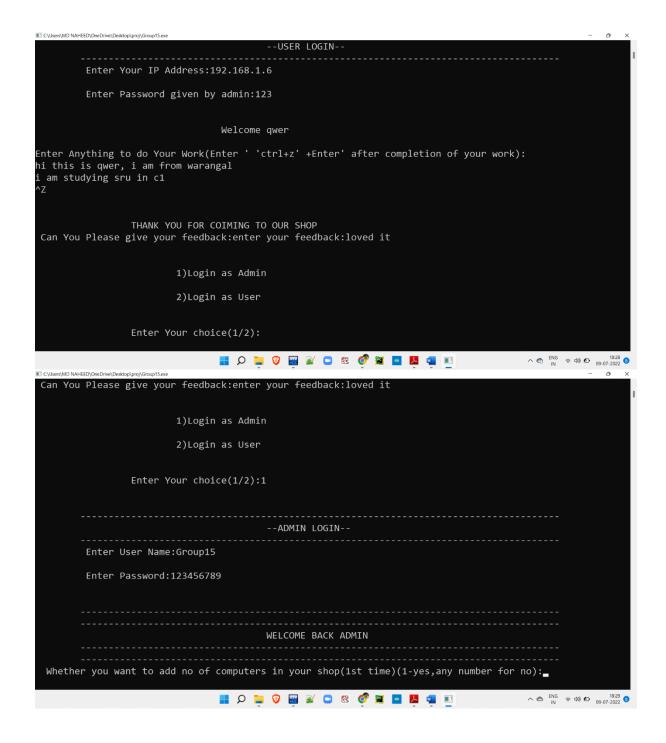


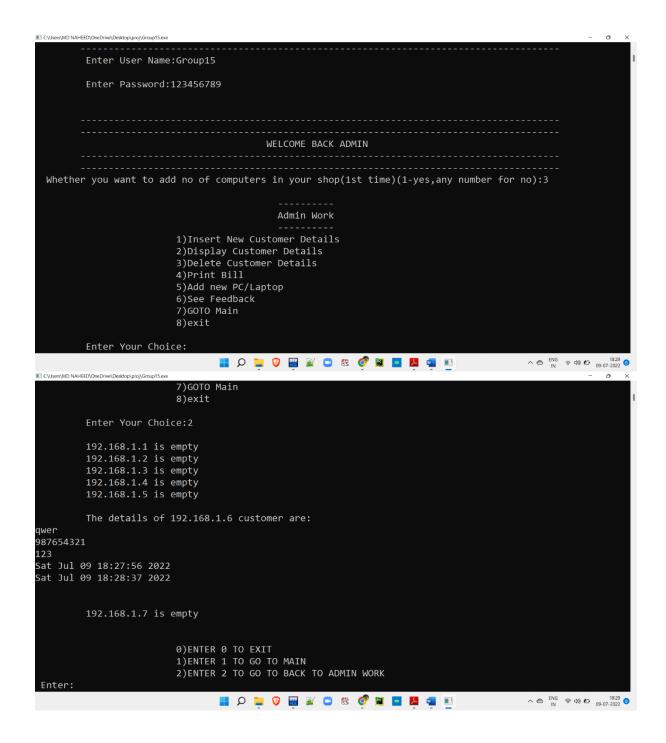


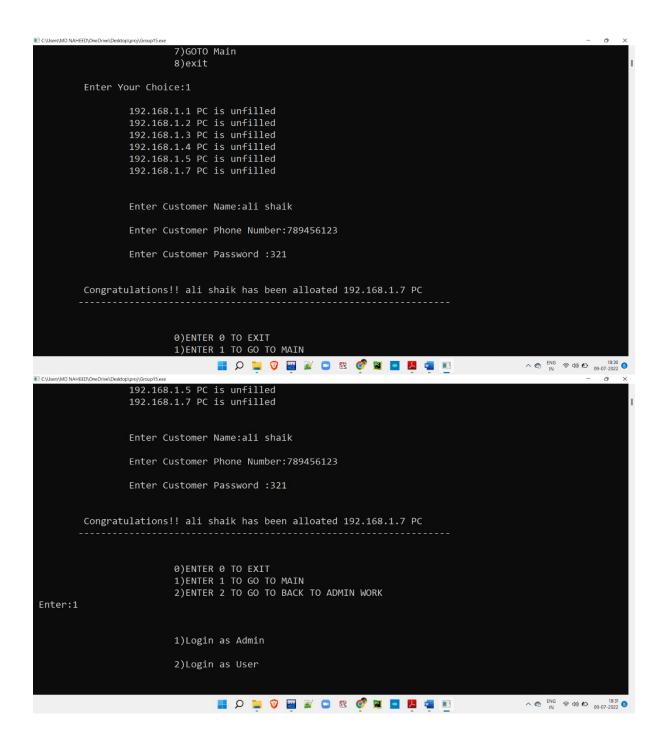


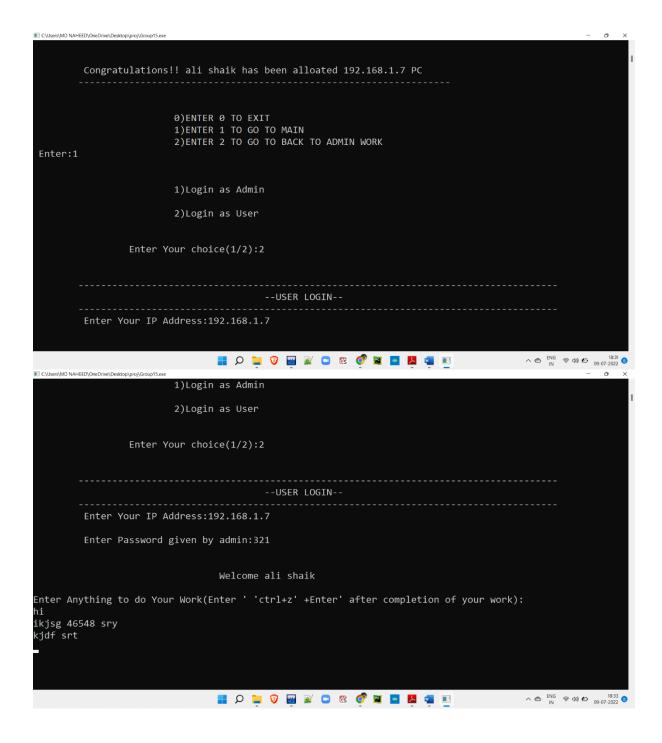
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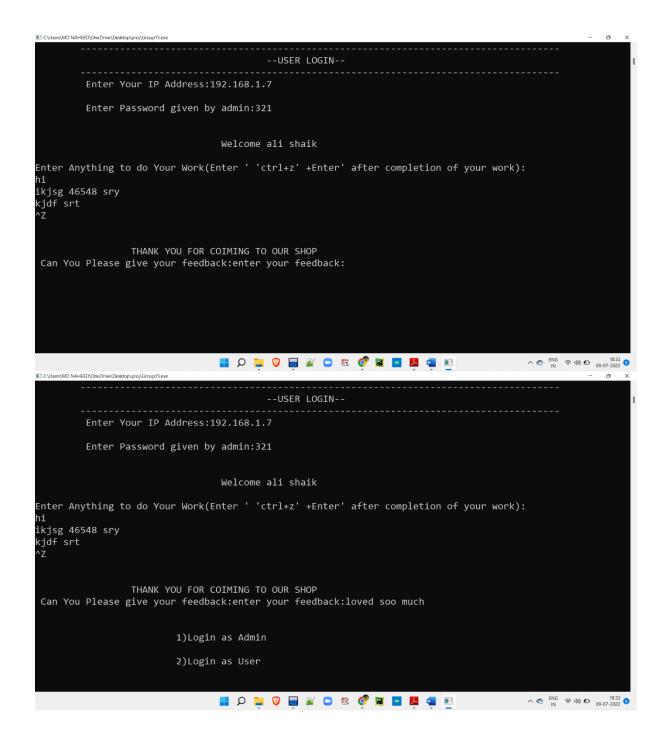












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2)Login as User	
Enter Your choice(1/2):1	
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Enter Password:123456789	
WELCOME BACK ADMIN	
Whether you want to add no of computers in your shop(1st time)(1-yes,any number for no):	
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WELCOME BACK ADMIN	
Whether you want to add no of computers in your shop(1st time)(1-yes,any number for no):3	
Admin Work	
1)Insert New Customer Details	
2)Display Customer Details	
3)Delete Customer Details	
4)Print Bill	
5)Add new PC/Laptop	
6)See Feedback	
7)GOTO Main	
8)exit	
Enter Your Choice:	
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