BUS TICKET RESERVATION SYSTEM

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AIM

To create a Bus Ticket Reservation System which shows you Bus List, Allows you to book tickets, cancel tickets and check Bus seats availability.

ABSTRACT

This bus reservation system in c program has a login system, which makes it more stable. There is no risk of data abuse or loss, and it takes very little time. This bus reservation system mini project in c design is straightforward and clean, making it easy for users to learn, use, and navigate.

The Bus Reservation System Project is developed using C programming language. In this bus reservation system in c helps the user to reserve a bus tickets.

ALGORITHIM

- **STEP-1**: START

- **STEP-2**: DECLARE ALL THE FUNCTIONS USED

  1. LOGIN
  2. BUS LIST
  3. BOOKING
  4. CANCEL RESERVATION
  5. STATUS
  6. STATUS 1
  7. READ NAME
  8. READ NUMBER
  9. NAME NUMBER

- **STEP-3:** DECLARE THE VARIABLES TO BE USED

- **STEP-4**: GET THE USERNAME AND PASSWORD FROM THE USER. IF THE GIVEN INFORMATION IS VALID GO TO THE MAIN SCREEN.

- **STEP-5**: USE SWITCH CASE STATEMENT TO WORK ON EACH CASE.

  - **CASE-1**: IF THE USER CHOICE IS 1, GO TO BUS() FUNCTION AND DISPLAY ALL THE BUSES LIST.

  - **CASE-2**: IF THE USER CHOICE IS 2, GO TO BOOKING() FUNCTION AND ASK THE USER TO ENTER THE BUS NUMBER. THEN ASK FOR NUMBER OF TICKETS REQUIRED.THEN ASK FOR THE DETAILS

OF THE RESEPECTIVE SEAT.THEN FINALLY DISPLAY THE BOOKING AMOUNT.

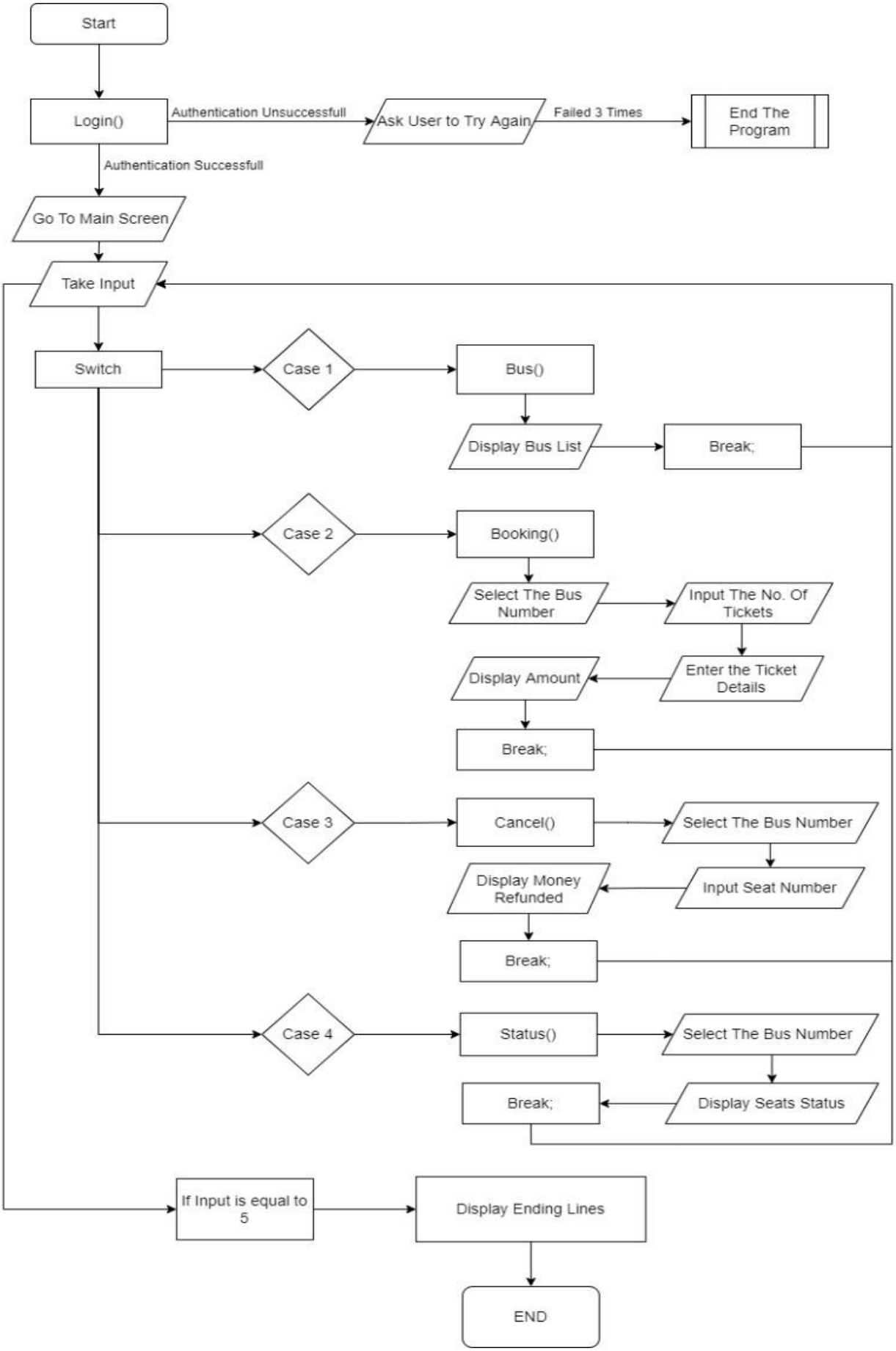
- **CASE-3**: IF THE USER CHOICE IS 3,THEN ENTER THE CANCLE FUNCTION, THEN ASK FOR THE BUS NUMBER AND DISPLAY THE SEATS AND ASK FOR SEAT NUMBER. THEN CANCEL THE SEAT AND DISPLAY MONEY REFUNDED.

- **CASE-4**: IF THE USER CHOICE IS 4, THEN ENTER TO BUS STATUS FUNCTION. ASK FOR BUS NUMBER AND THEN DISPLAY THE SEATS CURRENT STATUS.

- **CASE-5**: IF USERS CHOICE IS 5, THEN EXIT THE MAIN SCREEN AND DISPLAY THANKYOU.

➢ **STEP-6**: EXIT THE PROGRAM..

FLOW CHART


Start
Login()
Authentication Unsuccessfull
Ask User to Try Again
Failed 3 Times
End The Program
Authentication Successfull
Go To Main Screen
Take Input
Switch
Case 1
Bus()
Display Bus List
Break;
Case 2
Booking()
Select The Bus Number
Input The No. Of Tickets
Display Amount
Enter the Ticket Details
Break;
Case 3
Cancel()
Select The Bus Number
Display Money Refunded
Input Seat Number
Break;
Case 4
Status()
Select The Bus Number
Break;
Display Seats Status
If Input is equal to 5
Display Ending Lines
END

SOURCE CODE

```
#include <stdio.h>

#include <stdlib.h>

#include <string.h>

char ch[10][130]={"Astitva SuperFast Express","Satwika Express","Kunal Express","ASK Express","UDS Express"};

char name[32][100]={'\0'};

char number[32][2]={'\0'};

int num1[32]={0};

int trno;

void bus();

void name_number(int booking,char numstr[100]);

void booking();//for booking the tickets

int read_number(int trno);//for reading the number from the file

void read_name(int trno);//for reading the name from the file

void status();//for printing the status by user input

void status_1(int trno);//for printing the status while booking ticket

void cancle();


int main()

{

        login();

   int num,i;

   do{

   system("cls");
```

```
printf("\n\n \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n");
printf("\t    BUS RESERVATION");
printf("\n \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n\n");
printf("   \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd  MAIN MENU \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n\n");
printf("   [1] View Bus List\n\n");
printf("   [2] Book Tickets\n\n");
printf("   [3] Cancel Booking\n\n");
printf("   [4] Bus Status Board\n\n");
printf("   [5] Exit\n\n");
printf(" \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n");
printf("   ENTER YOUR CHOICE: ");
scanf("%d",&num);
switch(num)
{
case 1:
   bus();//for list of bus
   break;
case 2:
   booking();//for booking the tickets
   break;
case 3:
```

```
        cancle();
        break;
    case 4:
        status();
        break;
    }
getch();
    }while(num != 5);
    system("CLS");
    printf("\n\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
d\xcd\n");
    printf("   THANK YOU FOR USING THIS BUS RESERVATION SYSTEM");
    printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
d\xcd\n");
    getch();
    return 0;
}


void bus()
{
    system("cls");
```

```
   printf("\n\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n");
   printf("\t    BUS RESERVATION");
   printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n\n")
;
   printf("   \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd  BUS LIST
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd \n\n");
   printf("   [1]  =>  %s\n\n",ch[0]);
   printf("   [2]  =>  %s\n\n",ch[1]);
       printf("   [3]  =>  %s\n\n",ch[2]);
       printf("   [4]  =>  %s\n\n",ch[3]);
       printf("   [5]  =>  %s\n\n",ch[4]);
}


void booking()
{


   int i=0;
   char numstr[100];
system("cls");
printf("\n\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n");
printf("\t    BUS RESERVATION");
printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
```

```
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n\n")
;
bus();//for seeing train least
printf("   ENTER THE BUS NUMBER: ");
scanf("%d",&trno);
system("cls");
printf("\n\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n");
printf("\t    BUS RESERVATION");
printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n\n")
;
printf("Your Bus Number is %d ********** %s",trno,ch[trno-1]);
status_1(trno);
 FILE *f1, *fopen();//for reading the seats from the user.
 char str1[80]="32",str2[4],str3[4];
 int seat1,seat2,booking=0;
if(trno == 1)
{
 f1 = fopen("tr1.txt","r+");
 fgets(str1,80,f1);
 fclose(f1);
}else if(trno == 2)
{
 f1 = fopen("tr2.txt","r+");
 fgets(str1,80,f1);
```

```
 fclose(f1);
}else if(trno == 3)
{
 f1 = fopen("tr3.txt","r+");
 fgets(str1,80,f1);
 fclose(f1);
}
else if(trno == 4)
{
 f1 = fopen("tr4.txt","r+");
 fgets(str1,80,f1);
 fclose(f1);
}
else if(trno == 5)
{
 f1 = fopen("tr5.txt","r+");
 fgets(str1,80,f1);
 fclose(f1);
}
seat1=atoi(str1);//covert the string into number
if(seat1 <= 0)
{
 printf("There is no blank seat in this bus ");
}else
{
printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
```

```
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
d\xcd\n");
printf("\n   AVAILABLE NO OF SEATS: %d\n",seat1);
printf("\n   NUMBER OF TICKETS: ");
scanf("%d",&booking);
printf("\n");

seat1=seat1-booking;
itoa(trno,numstr,10);
name_number(booking,numstr);
printf("   The Total booking amount is %d",600*booking);
itoa(seat1, str1, 10);
//for reading the seats from the user.
if(trno == 1)
{
 f1 = fopen("tr1.txt","w");
 fputs(str1,f1);
 fclose(f1);
}
else if(trno == 2)
{
 f1 = fopen("tr2.txt","w");
 fputs(str1,f1);
  fclose(f1);
}
else if(trno == 3)
```

```
{
 f1 = fopen("tr3.txt","w");
 fputs(str1,f1);
  fclose(f1);
}
else if(trno == 4)
{
 f1 = fopen("tr4.txt","w");
 fputs(str1,f1);
  fclose(f1);
}
else if(trno == 5)
{
 f1 = fopen("tr5.txt","w");
 fputs(str1,f1);
 fclose(f1);
}
}
}



void name_number(int booking,char numstr[100])
{
char tempstr[100],tempstr1[12]="status",tempstr2[12]="number";
int number;
```

```
    FILE *a,*b;
    int i=0;
   strcat(numstr,".txt");
   strcat(tempstr1,numstr);
   strcat(tempstr2,numstr);
   a = fopen(tempstr1,"a");//for open the file to write the name in the file
   b = fopen(tempstr2,"a");//for open the file for writing the number in the
file
for(i=0; i<booking; i++)//for entering the person name and seat number in
the file
{
     printf("   \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd Enter the details for
ticket no %d \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n\n",i+1);
     printf("   ENTER THE SEAT NUMBER: ");
     scanf("%d",&number);
     printf("\n   ENTER THE PERSON NAME: ");
     scanf("%s",name[number-1]);
     printf("\n\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
d\xcd\n");
     printf("\n");
     itoa(number, tempstr, 10);
     fprintf(a,"%s ",name[number-1]);
     fprintf(b,"%s ",tempstr);


}
```

```
fclose(a);
fclose(b);
}



int read_number(int trno)//for putting the numeric value in the array
{
char tempstr[100],tempstr2[12]="number";
FILE *a,*b;
char numstr[100];
int i=0,j=0,k;
itoa(trno,numstr,10);
strcat(numstr,".txt");
strcat(tempstr2,numstr);
a = fopen(tempstr2,"a+");//for open the file to write the name in the file
  while(!feof(a))
  {
     number[i][j] = fgetc(a);

     if(number[i][j] == ' ')
     {
        j=0;
        i++;
     }
     else
```

```
    {
    j++;
    }
  }
  k=i;
  for(i=0; i<k; i++)
  {
     num1[i] = atoi(number[i]);
  }
  fclose(a);
  return k;
}


void read_name(int trno)//for putting the numeric value in the array
{
char tempstr1[12]="status";
FILE *b;
char numstr[100];
int i=0,j=0,k=0;
itoa(trno,numstr,10);
strcat(numstr,".txt");
strcat(tempstr1,numstr);
b = fopen(tempstr1,"a+");//for open the file to write the name in the file
  while(!feof(b))
  {
```

```
      name[i][j] = fgetc(b);


      if(name[i][j] == ' ')
      {
         j=0;
         i++;
      }
      else
      {
        j++;
      }


    }
    name[i][j]='\0';
    k=i;
    fclose(b);
  }


  void status()
  {
  system("cls");
     printf("\n\n
  \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
  xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
  cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
  d\xcd\n");
     printf("\t\t      BUS RESERVATION");
```

```c
    printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
d\xcd\n\n");
    int i,trno,index=0,j;
    printf("   ENTER THE BUS NUMBER: ");
    scanf("%d",&trno);
    j=read_number(trno);
    read_name(trno);
    printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
d\xcd\n");
    printf("\t\t   Bus No.%d: %s\n",trno,ch[trno-1]);
    printf("
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
d\xcd\n\n");
    char tempname[33][10]={"Empty ","Empty ","Empty ","Empty ","Empty
","Empty ","Empty ","Empty ","Empty ","Empty ","Empty ","Empty
","Empty ","Empty ","Empty ","Empty ","Empty ","Empty ","Empty
","Empty ","Empty ","Empty ","Empty ","Empty ","Empty ","Empty
","Empty ","Empty ","Empty ","Empty ","Empty ","Empty ","Empty "};
    for(i=0; i<j; i++)
    {
        strcpy(tempname[num1[i]],name[i]);
    }
    for(i=0; i<8; i++)
```

```
    {
        printf("   ");
        for(j=0; j<4; j++)
            {
        printf("%d.%s\t",index+1,tempname[index+1]);
        index++;
            }
            printf("\n");
    }
}


void status_1(int trno)
{
    printf("Your Bus Number is %d ********** %s",trno,ch[trno-1]);
    system("cls");
    printf("\n\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
d\xcd\n");
    printf("\t\t      BUS RESERVATION");
    printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
d\xcd\n\n");
    int i,index=0,j;
    j=read_number(trno);
    read_name(trno);
```

```
   char tempname[33][10]={"Empty ","Empty ","Empty ","Empty ","Empty
","Empty ","Empty ","Empty ","Empty ","Empty ","Empty ","Empty
","Empty ","Empty ","Empty ","Empty ","Empty ","Empty ","Empty
","Empty ","Empty ","Empty ","Empty ","Empty ","Empty ","Empty
","Empty ","Empty ","Empty ","Empty ","Empty ","Empty ","Empty "};
   for(i=0; i<j; i++)
   {
      strcpy(tempname[num1[i]],name[i]);
   }
   for(i=0; i<8; i++)
   {
      printf("   ");
      for(j=0; j<4; j++)
         {
      printf("%d.%s\t",index+1,tempname[index+1]);
      index++;
         }
         printf("\n");
}
}


void cancle()
{
 int seat_no,i,j;
 char numstr[100],tempstr2[15]="number",tempstr1[15]="status";
 printf("\n   ENTER THE BUS NUMBER: ");
```

```
 scanf("%d",&trno);
 itoa(trno,numstr,10);
 strcat(numstr,".txt");
 strcat(tempstr1,numstr);
 strcat(tempstr2,numstr);
 read_number(trno);
 read_name(trno);
 status_1(trno);
 printf("\n\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\x
cd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xc
d\xcd\n");
 printf("   ENTER THE SEAT NUMBER: ");
 scanf("%d",&seat_no);
 FILE *a,*b;
 a = fopen(tempstr1,"w+");
 b = fopen(tempstr2,"w+");
 for(i=0; i<32; i++)
 {
    if(num1[i] == seat_no)
    {
       for(j=0; j<32; j++)
       {
          if(num1[j] != seat_no && num1[j] != 0)
          {
             fprintf(b,"%d ",num1[j]);
```

```
                fprintf(a,"%s",name[j]);
            }
            else if(num1[j] == seat_no && num1[j] != 0)
            {
                strcpy(name[j],"Empty ");
            }
        }
    }
 }
fclose(a);
fclose(b);
printf("\n\n");
    printf("\n\n \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n");
 printf("   Your 600 rupees has been Returned\n");
    printf(" \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n");
}



void login()
{
        int a=0,i=0;
```

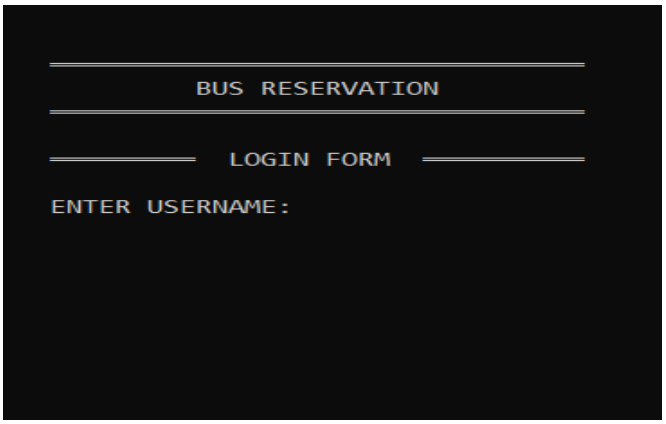
```
   char uname[10],c=' ';
   char pword[10],code[10];
   char user[10]="user";
   char pass[10]="user";
   do
{
      system("cls");
   printf("\n\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n");
   printf("\t    BUS RESERVATION");
   printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\
xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n\n")
;
   printf("   \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd  LOGIN FORM
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd  ");
   printf("\n\n   ENTER USERNAME: ");
      scanf("%s", &uname);
      printf(" \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,"user")==0)
        {
   printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd");
        printf("  \n\n   WELCOME USER !!!!");
        printf("\n\n\n   Press any key to continue...");
        getch();//holds the screen
        break;
        }
        else
        {
           printf("\n
\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd");
                printf("\n\n   LOGIN IS UNSUCESSFUL...PLEASE TRY AGAIN...");
                a++;

                getch();//holds the screen

        }
}
        while(a<=2);
```

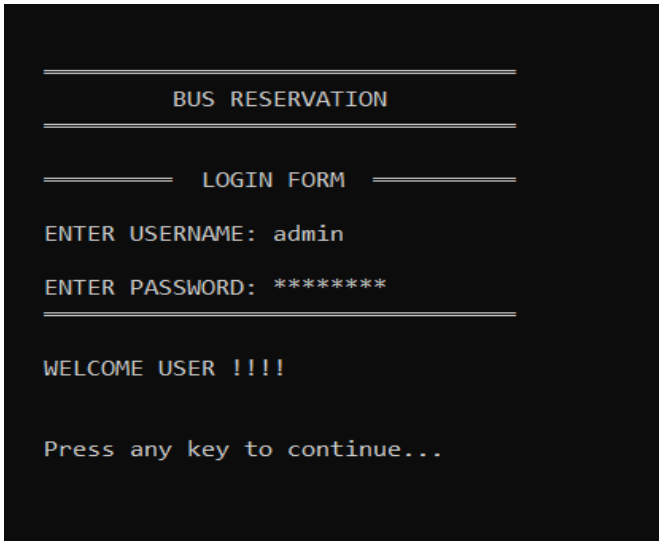
```
        if (a>2)
        {
                printf("\nSorry you have entered the wrong username and
password for four times!!!");

                getch();

                }
                system("cls");
}
```

OUTPUT

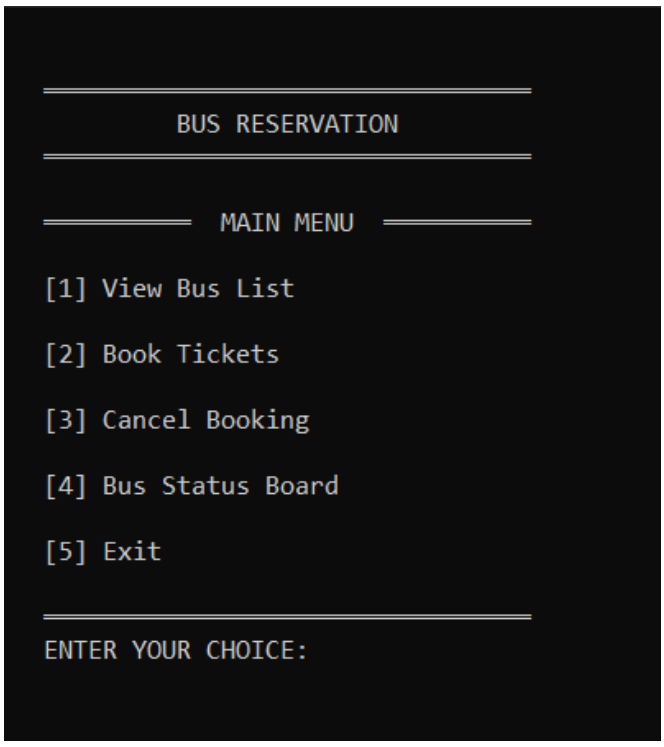
1. Login screen:



2. After login:



3. Main page:



4. Bus():

```
═══════════════════════════════
         BUS RESERVATION
═══════════════════════════════

═══════  BUS LIST  ═══════

[1]  =>  Astitva SuperFast Express

[2]  =>  Satwika Express

[3]  =>  Kunal Betrayal Express

[4]  =>  ASK Express

[5]  =>  UDS Express
```

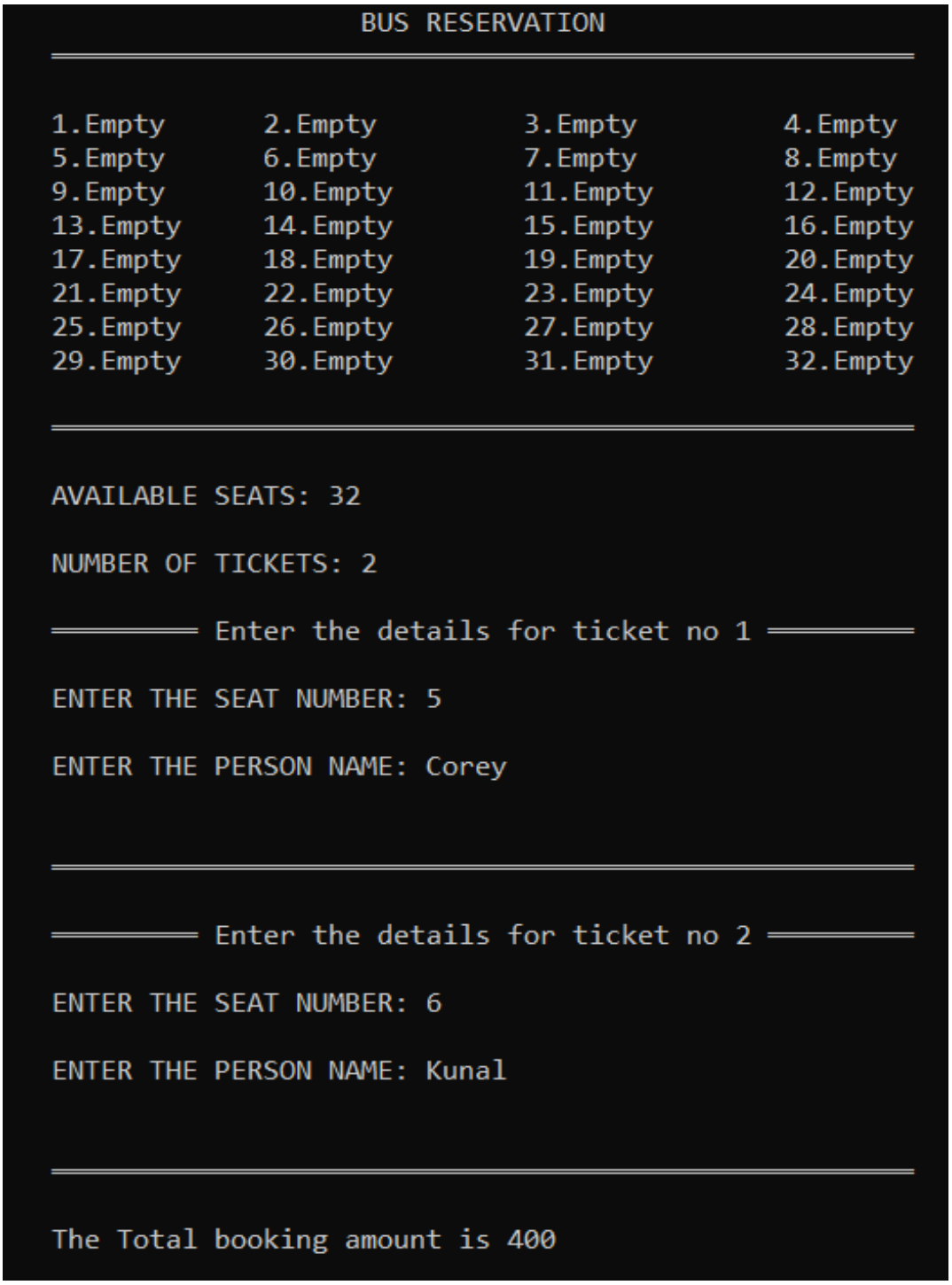
5. Booking() Page 1:

```
═══════════════════════════════
         BUS RESERVATION
═══════════════════════════════

═══════  BUS LIST  ═══════

[1]  =>  Astitva SuperFast Express

[2]  =>  Satwika Express

[3]  =>  Kunal Betrayal Express

[4]  =>  ASK Express

[5]  =>  UDS Express

ENTER THE BUS NUMBER:
```

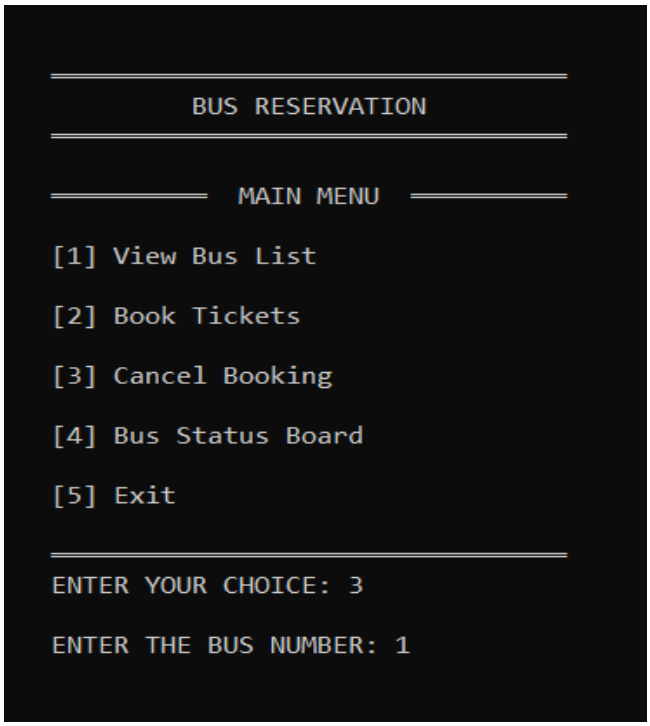
6. Booking() Page 2:

```
═══════════════════════════════════════════════
                BUS RESERVATION
═══════════════════════════════════════════════

1.Empty     2.Empty     3.Empty     4.Empty
5.Empty     6.Empty     7.Empty     8.Empty
9.Empty     10.Empty    11.Empty    12.Empty
13.Empty    14.Empty    15.Empty    16.Empty
17.Empty    18.Empty    19.Empty    20.Empty
21.Empty    22.Empty    23.Empty    24.Empty
25.Empty    26.Empty    27.Empty    28.Empty
29.Empty    30.Empty    31.Empty    32.Empty

═══════════════════════════════════════════════

AVAILABLE SEATS: 32

NUMBER OF TICKETS:
```

7. Booking() Page 3:

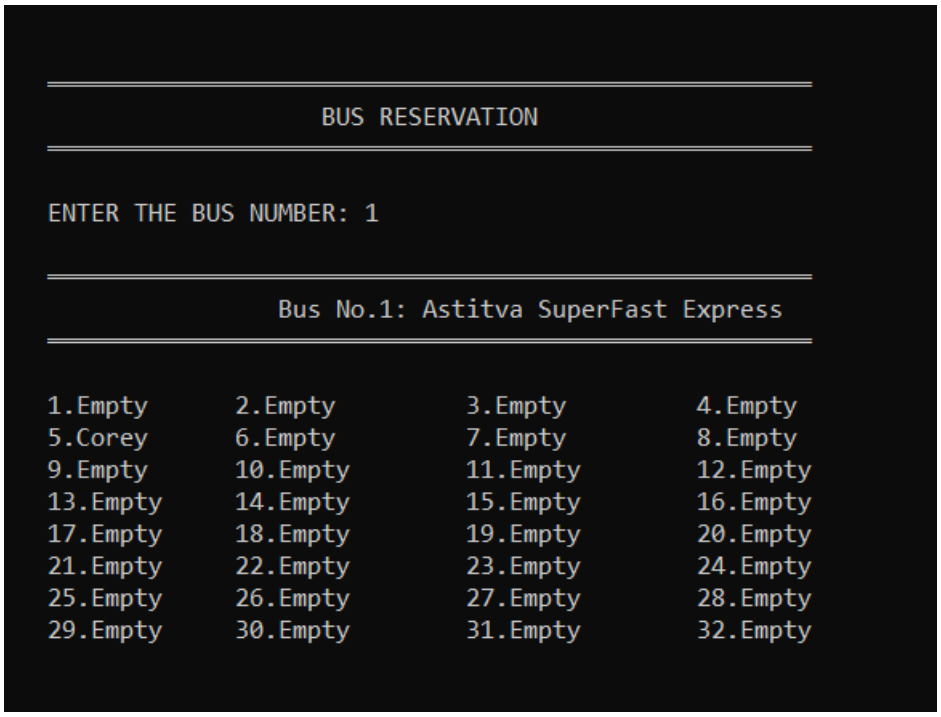


8. Cancel() Page 1:

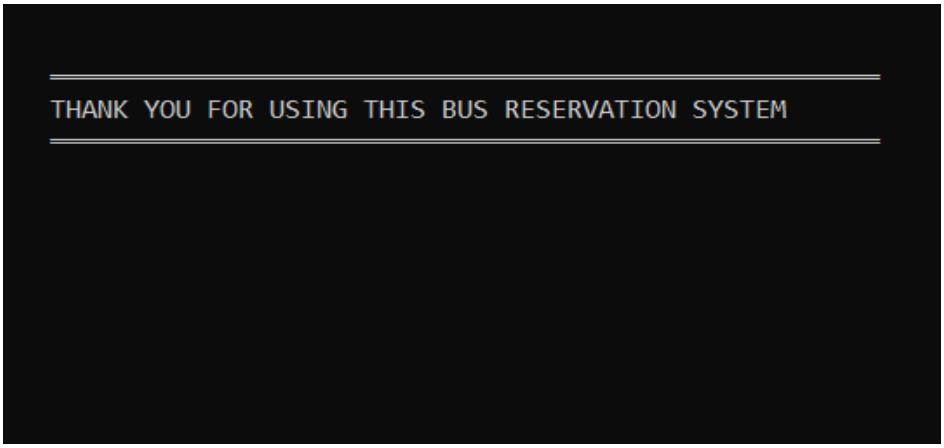


9. Cancel() Page 2:

10. Status():



11. Exit():



RESULT

Our project bus reservation system provides an easy way for booking the bus tickets. Our project has succeeded in managing the data and providing the best output.

CONCLUSION

Utilising the concepts of programming embedded in C language, the three developers have tried their best to create a simple and optimized program that does the work of a Bus Ticket Reservation System in real life, with a user-friendly terminal for the executable file of the source code. It has also exposed the developers to the intricate technicalities when working with older generation high level languages, in this case C, which is a 3rd generation High Level Language as opposed to modern 4th generation High Level languages like Python, Ruby etc., which has made the three developers appreciate the older generation languages which pioneered the programming scenarios among the general masses while also laying the foundation for the latest generation languages.