

PRESENTATION

BY

TEAM-08



**SR
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PROBLEM SOLVING WITH PROGRAMMING

GUIDE: - DR. PRAVEEN

B. TECH-I YEAR, II-SEM

PROJECT TITLE : BUS RESERVATION SYSTEM



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INDEX



-
- **ABSTRACT**
 - **INTRODUCTION**
 - **MODULE DESCRIPTION**
 - **IMPLIMENTATION**
 - **TEST RESULTS**
 - **CONCLUSION**

ABSTRACT

- **The Bus Reservation System** is a user-friendly online bus booking system that automates ticket purchases.
- You can plan routes, set seat availability, upload an interactive seat map, and allow customers to choose seats.
- It gives our clients the ability to purchase tickets for a variety of routes and destinations.



INTRODUCTION

- This is a **Simple C Project** entitled **Bus Reservation System** . This is a program that aids the users to view the bus schedule, book tickets, check the bus status board and can even cancel bookings if necessary. The program was developed using C Language. This has a simple user interface and user-friendly functionalities.

Project Features



Secure Login



User friendly
interface



Manage
reservations



Simple purchase
process



Generate
printable receipt

MODULE DESCRIPTION

- **Bus Details Module**
- **Ticket Reservation Module**
- **Payment Module**
- **Cancel Reservation**

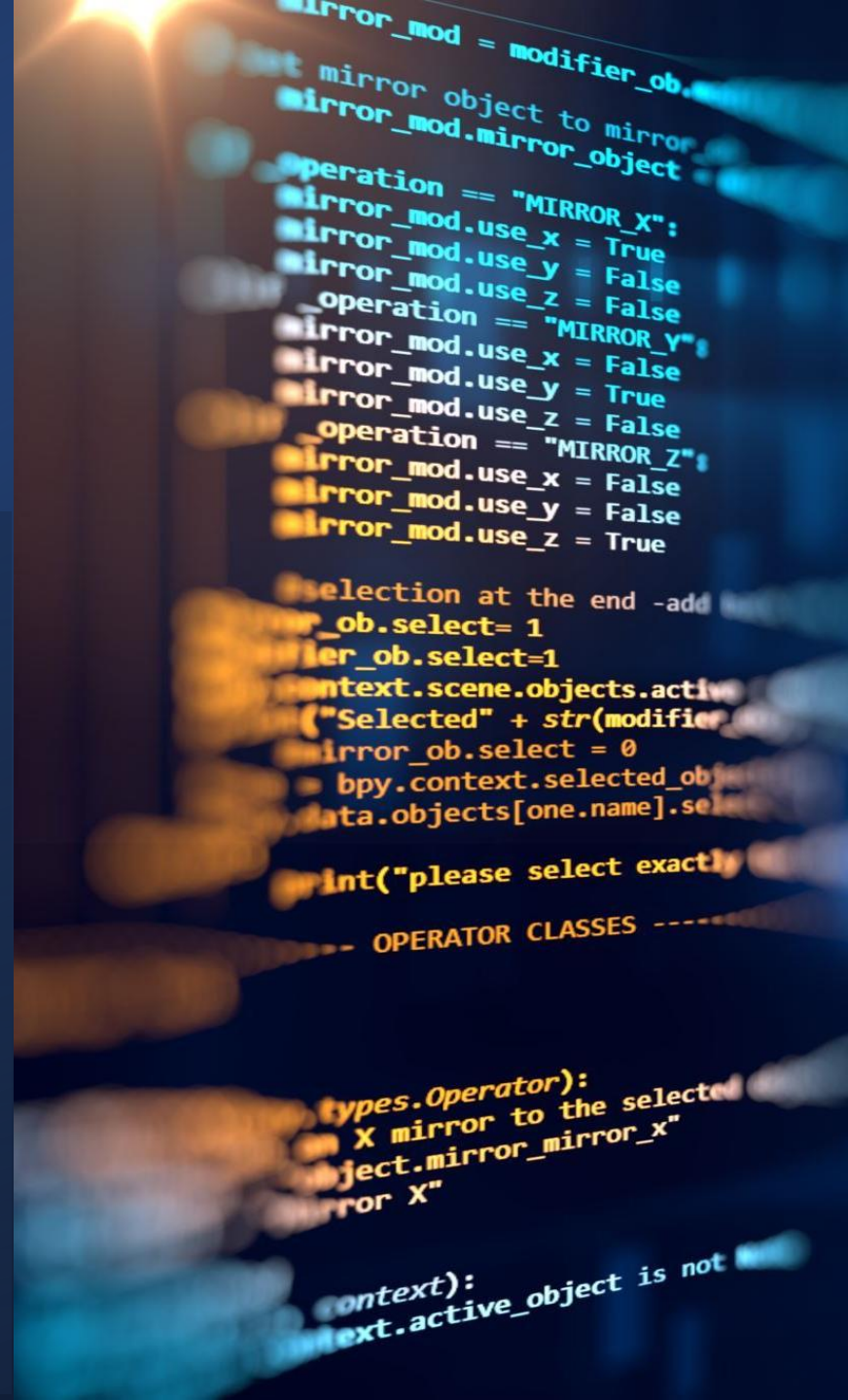
Bus details module : In this module, we can get to know the buses which are available and details such as their starting point and their destination.

Ticket Reservation Module : We can select our destined bus and confirm it for tickets purchase. Then, it leads to the ticket purchase module.

Payment Module : As we have selected our tickets/seats, this module is for purchasing them. You can either purchase them nor cancel and go back to the Main menu by using exit button.

Cancel Reservation : If by any unknown circumstances you decided to cancel your trip, you can use this module for cancelation of the tickets and can get full refund of your payment.

SOURCE CODE (IMPLEMENTATION)



```
mirror_mod = modifier_ob.  
# Set mirror object to mirror  
mirror_mod.mirror_object =
```

```
operation == "MIRROR_X":  
    mirror_mod.use_x = True  
    mirror_mod.use_y = False  
    mirror_mod.use_z = False  
operation == "MIRROR_Y":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = True  
    mirror_mod.use_z = False  
operation == "MIRROR_Z":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = False  
    mirror_mod.use_z = True
```

```
#selection at the end -add  
mirror_ob.select= 1  
modifier_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier_ob.  
mirror_ob.select = 0  
= bpy.context.selected_object  
data.objects[one.name].select  
print("please select exactly
```

```
-- OPERATOR CLASSES --
```

```
types.Operator):  
    X mirror to the selected  
    object.mirror_mirror_x"  
    mirror X"
```

```
context):  
    context.active_object is not
```

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
char ch[10][130]={"Rajadhani Express[hyd-hnmk]==>> 11/7/22--starts at 10:00am","Garuda Express[hnmk-hyd]==>> 12/7/22--starts at 2:35pm","Venkateshwara Express[tirupati-hnmk]==>> 12/7/22--starts at 5:25am","Metro Express[adilabad-hyd]==>> 13/7/22--starts at 2:45pm","SR Express[nizambad-wgl]==>> 15/7/22--starts at 8:20am"};
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();
int read_number(int trno);
void read_name(int trno);
void status();
void status_1(int trno);
void cacle();

int main()
{
login();
    int num,i;
    do{
        system("clear")
```

```
printf("\n\n =====\n");
printf("\t BUS RESERVATION");
printf("\n =====\n\n");
printf(" ----- MAIN MENU -----\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(" #####\n\n");
printf(" ENTER YOUR CHOICE: ");
scanf("%d",&num);
switch(num)
{
case 1:
    bus();
    break;
case 2:
    booking();
    break;
case 3:
    candle();
    break;
case 4:
    status();
```

```

break;
    }
getch();
    }while(num != 5);
    system("CLS");
    printf("\n\n *****\n");
    printf("  THANK YOU FOR USING THIS BUS RESERVATION SYSTEM");
    printf("\n  =====\n");
    printf("  Visit Again\n");
    getch();
    return 0;
}

```

```

void bus()
{
    system("cls");
    printf("\n\n =====\n");
    printf("\t  BUS RESERVATION");
    printf("\n  =====\n\n");
    printf("  -----  BUS LIST  -----\n\n");
    printf("  [1] => %s\n\n",ch[0]);
    printf("  [2] => %s\n\n",ch[1]);
}

```

```

printf("\t  BUS RESERVATION");
    printf("\n =====\n\n");
    printf("  -----  BUS LIST -----\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 =====\n");
printf("\t  BUS RESERVATION");
printf("\n =====\n\n");
bus();
printf("  ENTER THE BUS NUMBER: ");
scanf("%d",&trno);
system("cls");
printf("\n\n =====\n");

```

```
printf("\t BUS RESERVATION");
printf("\n =====\n\n");printf("Your Bus Number is %d ****
%s",trno,ch[trno-1]);
status_1(trno);
FILE *f1, *fopen();
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);
if(seat1 <= 0)
{
printf("There is no blank seat in this bus ");
}else
{
printf("\n _____\n\n");
printf("Enter 0 to don't book tickets\n");
printf("\n  AVAILABLE SEATS: %d\n",seat1);
printf("\n  NUMBER OF TICKETS: ");
scanf("%d",&booking);
printf("\n");
```

```
seat1=seat1-booking;
itoa(trno,numstr,10);
```



```
strcat(numstr, ".txt");
strcat(tempstr2, numstr);
a = fopen(tempstr2, "a+");
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)
{
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+");
while(!feof(b))
{
    name[i][j] = fgetc(b);

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

[illegible]

```

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 cacle()
{
    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 =====\n");
printf("\n Select the ticket that you booked \n\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 =====\n");
printf("  Your 200 rupees has been Returned\n");
    printf("  =====\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 =====\n");
    printf("\t  BUS RESERVATION");
    printf("\n\n =====\n\n");
    printf("  ~~~~ LOGIN FORM ~~~~ ");
    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';
i=0;
if(strcmp(uname,"user")==0 && strcmp(pword,"user")==0)
{
    printf("\n  *****");
    printf(" \n\n  WELCOME USER !!!!");
    printf("\n\n\n  Press any key to continue...");
    getch();
    break;
}
else
{
    printf("\n  -----");
    printf("\n\n  LOGIN IS UNSUCCESSFUL...PLEASE TRY AGAIN...");
    a++;
```

```
getch();
```

```
}
```

```
}
```

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

```
if (a>2)
```

```
{
```

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

```
getch();
```

```
}
```

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

```
}
```


TEST RESULTS




```
=====
BUS RESERVATION
=====

----- MAIN MENU -----

[1] View Bus List
[2] Book Tickets
[3] Cancel Booking
[4] Bus Status Board
[5] Exit

=====
ENTER YOUR CHOICE: 1
```

```
=====
BUS RESERVATION
=====

~~~~~ LOGIN FORM ~~~~~

ENTER USERNAME: user

ENTER PASSWORD: ****
*****

WELCOME USER !!!!

Press any key to continue...
```

```
=====
BUS RESERVATION
=====

----- BUS LIST -----

[1] => Rajadhani Express[hyd-hnmk]==>> 11/7/22--starts at 10:00am
[2] => Garuda Express[hnmk-hyd]==>> 12/7/22--starts at 2:35pm
[3] => Venkateshwara Express[tirupati-hnmk]==>> 12/7/22--starts at 5:25am
[4] => Metro Express[adilabad-hyd]==>> 13/7/22--starts at 2:45pm
[5] => SR Express[nizambad-wgl]==>> 15/7/22--starts at 8:20am
```

```
----- MAIN MENU -----

[1] View Bus List
[2] Book Tickets
[3] Cancel Booking
[4] Bus Status Board
[5] Exit

=====
ENTER YOUR CHOICE: 2_
```

```
=====
BUS RESERVATION
=====

ENTER THE BUS NUMBER: 2

=====
Bus No.2: Garuda Express[hnmk-hyd]==> 12/7/22--starts at 2:35pm
=====

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

```
=====
BUS RESERVATION
=====

----- MAIN MENU -----

[1] View Bus List
[2] Book Tickets
[3] Cancel Booking
[4] Bus Status Board
[5] Exit

#####

ENTER YOUR CHOICE: 4
```

```
=====
BUS RESERVATION
=====

----- BUS LIST -----

[1] => Rajadhani Express[hyd-hnmk]==> 11/7/22--starts at 10:00am
[2] => Garuda Express[hnmk-hyd]==> 12/7/22--starts at 2:35pm
[3] => Venkateshwara Express[tirupati-hnmk]==> 12/7/22--starts at 5:25am
[4] => Metro Express[adilabad-hyd]==> 13/7/22--starts at 2:45pm
[5] => SR Express[nizambad-wgl]==> 15/7/22--starts at 8:20am

ENTER THE BUS NUMBER: 2
```

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

-----

Enter 0 to don't book tickets

AVAILABLE SEATS: 30
NUMBER OF TICKETS: 2

Select the seat which is not reserved....
>>>>>>>>> Enter the details for ticket no 1 <<<<<<<<<<<<

ENTER THE SEAT NUMBER: 5
ENTER THE PERSON NAME: ravi

#####

Select the seat which is not reserved....
>>>>>>>>> Enter the details for ticket no 2 <<<<<<<<<<<<

ENTER THE SEAT NUMBER: 6
ENTER THE PERSON NAME: karthik

#####

The Total booking amount is 400_
```

```
=====
BUS RESERVATION
=====

ENTER THE BUS NUMBER: 2

=====
Bus No.2: Garuda Express[hnmk-hyd]==> 12/7/22--starts at 2:35pm
=====

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

=====
```

```
=====
BUS RESERVATION
=====

----- MAIN MENU -----

[1] View Bus List
[2] Book Tickets
[3] Cancel Booking
[4] Bus Status Board
[5] Exit

#####

ENTER YOUR CHOICE: 5
```

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

=====

Select the ticket that you booked

ENTER THE SEAT NUMBER: 5

=====

Your 200 rupees has been Returned
=====
```

```
----- MAIN MENU -----

[1] View Bus List
[2] Book Tickets
[3] Cancel Booking
[4] Bus Status Board
[5] Exit

#####

ENTER YOUR CHOICE: 3

ENTER THE BUS NUMBER: 2
```

```
C:\Users\Revanth Shamala\Desktop\pspproject.exe

*****
THANK YOU FOR USING THIS BUS RESERVATION SYSTEM
*****
Visit Again

*****
Process exited after 305.7 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\Revanth Shamala\Desktop\pspproject.exe

*****
THANK YOU FOR USING THIS BUS RESERVATION SYSTEM
*****
Visit Again
```

CONCLUSION

In Conclusion, Bus Reservation System will increase the booking process faster, convenient, and comfortable. It will also reduce the workload of the staff, reduce the time used for making reservation at the bus terminal and also increase efficiency. The application also has the ability to update records in various files automatically thereby relieving the company's staff the stress of working from file security of data.

