

# **Project Title: Bus Ticket Reservation Project**

## **Team Members:**

| S. No | Name              | Roll. No  |
|-------|-------------------|-----------|
| 1     | ABHINAV C         | 200020001 |
| 2     | ARVIND KUMAR M    | 200020008 |
| 3     | HARI PRASAD       | 200030021 |
| 4     | SURZITH RAJ PANDI | 200010049 |

## **Project Statement:**

Write a C program for the Bus ticket reservation system.

The modules in the program:

- (a) User login. Welcome display with seat information.
- (b) Consider x number of seats, display row-wise seat matrix.
- (c) Display free seats, booked seats, and reserved seats. If a user tries to book a booked or a reserved seat, suitable messages should be displayed.
- (d) Note that only the admin can reserve seats. User must be able to book free seats only.
- (e) Once the seat booking is confirmed, a message with the user's name, date of journey, to and from, seat numbers, mobile number, and the amount should be displayed.
- (f) Either after the date of the journey or if the user cancels the booking, the admin has to set back or free the booked seats.
- (g) When the user cancels the ticket, the user must get refund information.

## **Design Steps:**

1.The main code will have definition and declaration of functions. Each function implements the features mentioned as above. It will also display a welcome message” WELCOME TO BLUE BUS ” and calls following functions.

2.Function Login () - this function displays user to select signup or login. If user selects signup, then it calls signup() which asks to enter username, password and stores in a file and it redirects to login page. If user selects option login, then it goes to login page and asks user to enter login credentials and it verifies with the stored information from file. If entered information matches, then it calls Homepage ().

Home page displays options like:

- 1.Booking
- 2.Bus status
- 3.Cancel
- 4.Ratings
- 5.Exit

3.Function booking () - when user chooses booking (1) this executes. Gets date of travel, phone number, and displays available seats. Then gets number of passengers and seat number for each passenger, calls freecheck() function and books the seat.

4.Function freecheck () - will check whether the particular seat number is free (i.e. seat has empty value), if yes then it returns to booking. If seat is not empty it displays “SEAT IS ALREADY BOOKED”

Once the seat booking is done,

5.Function ticket() -will print the ticket number, user's name, date of journey, to and from, seat number, mobile number and amount to be paid.

6.Function status()- when entered date shows the available seats and booked seats row wise.

7.Function cancl() – when user chooses cancel option this executes and it gets details like username, date and seat number of booked seats. This function cancels the seat and calls refund function.

8.Function refund() – Displays seat cancellation and the refunded amount.

9.Function empty\_seat() – When called by admin, this function gets date and free up the seats of previous bus. Displays the date of free bus in the end.(ADMIN feature)

### **Additional Features:**

10.Function user\_rating() – when user choose FEEDBACK option this function gets executed. Gets ratings (1-5) from user.

11.Function rating () – when user exits this gets called. It displays the ratings given by all users.

12.Function display\_booking() – When called by admin,this displays the details of all booked tickets.(only for ADMIN)

13.Function display\_cancl() – displays all the cancelled seats and details when called by admin.(only for ADMIN)

## **Role of Team Members:**

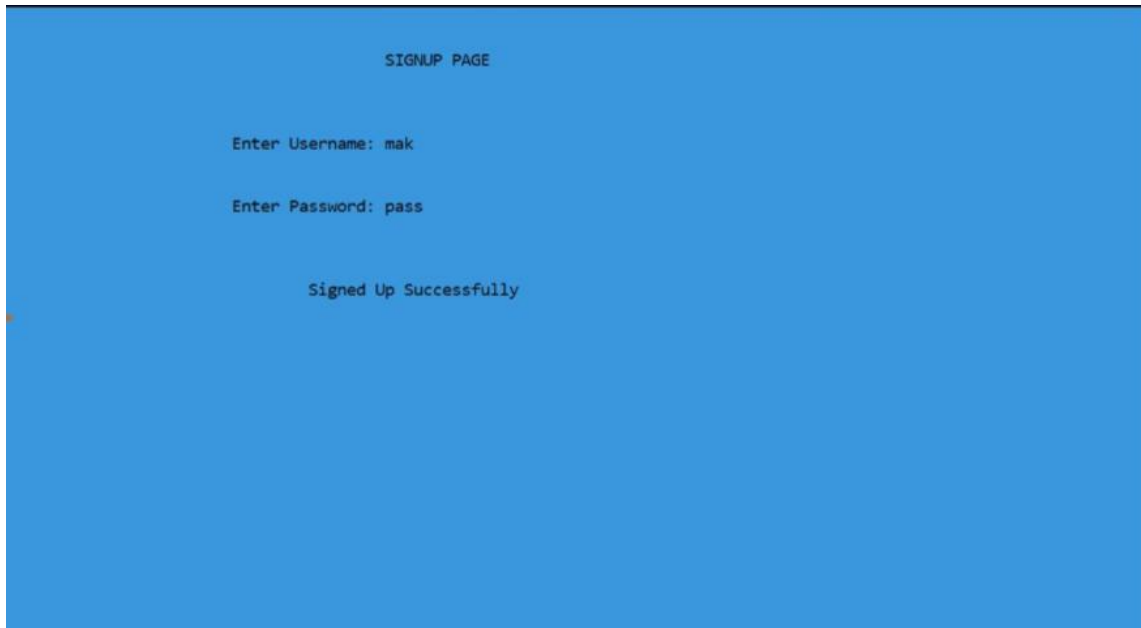
| <b>Student Name</b> | <b>Role</b>                                  |
|---------------------|--|
| 1.ABHINAV C         | Implementing Function 1, 2, 9, 12            |
| 2.ARVIND KUMAR M    | Implementing Function 3, 6, 10 ,11           |
| 3.HARI PRASAD P     | Implementing Function 4, 5, 8                |
| 4.SURZITH RAJ PANDI | Implementing Function 7, 13 , Writing report |

## **Results:**

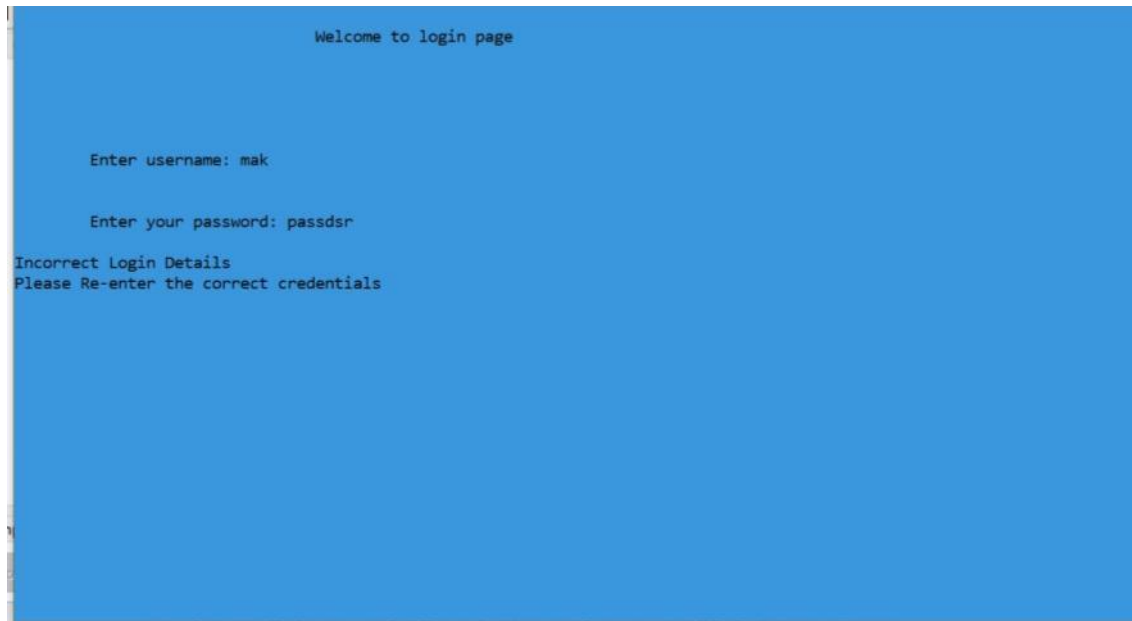
**Figure shows the Welcome screen**



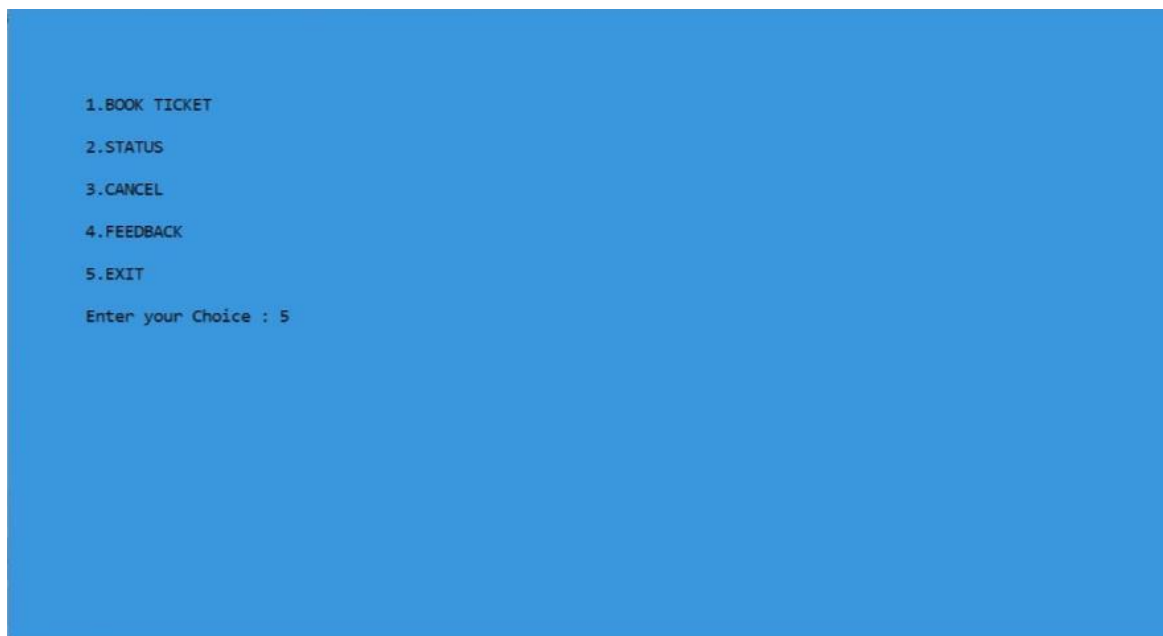
**Figures show the sign up and login**



**Fig shows incorrect login**



**Fig shows the home-page of the application**



**Fig shows the booking process**

- 1.MONDAY
- 2.TUESDAY
- 3.WEDNESDAY
- 4.THURSDAY
- 5.FRIDAY
- 6.SATURDAY

Enter the date of travel:

~~~~~SEAT STATUS~~~~~

|          |          |
|----------|----------|
| 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 |

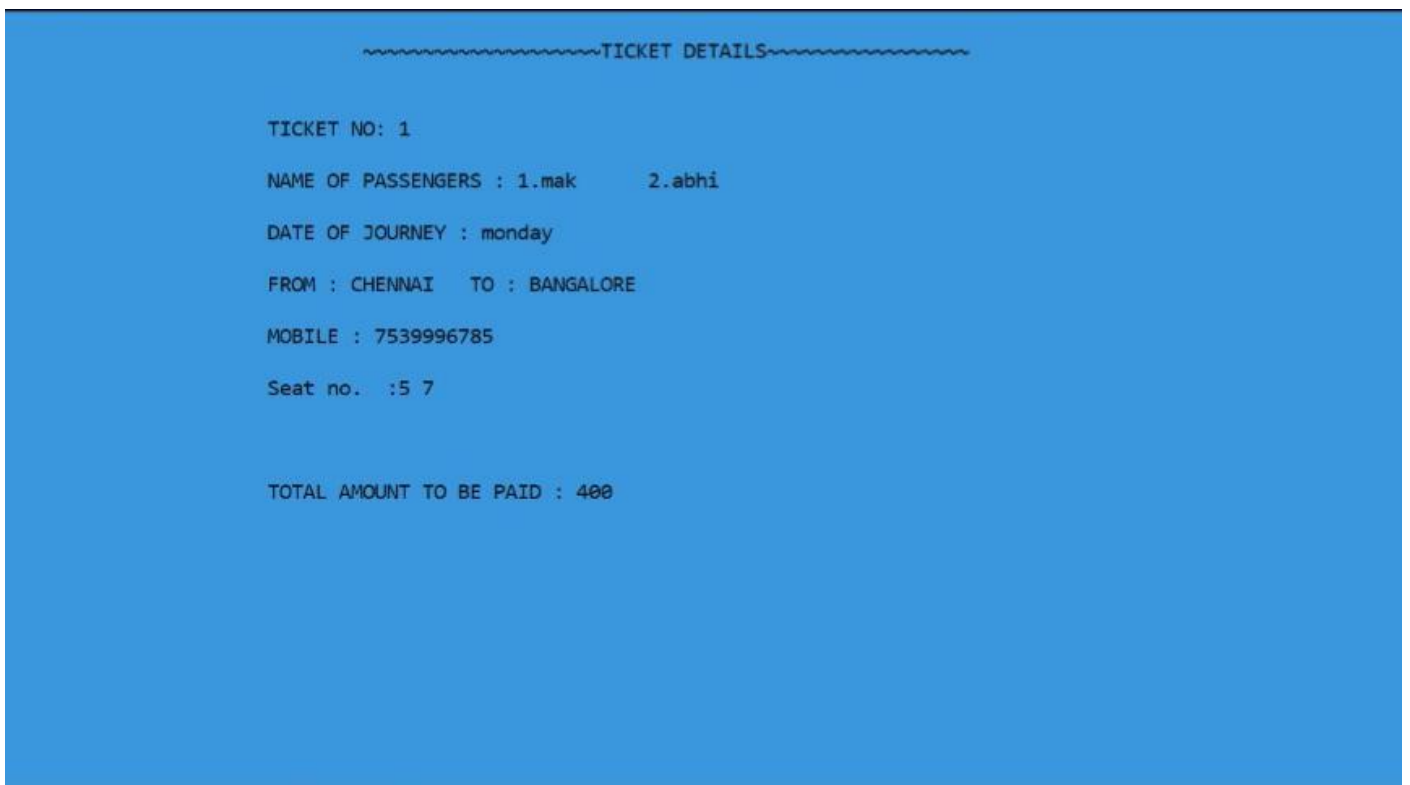
Enter Booking Name :mak

Enter mobile number :7539996785

Enter number of passengers : 2

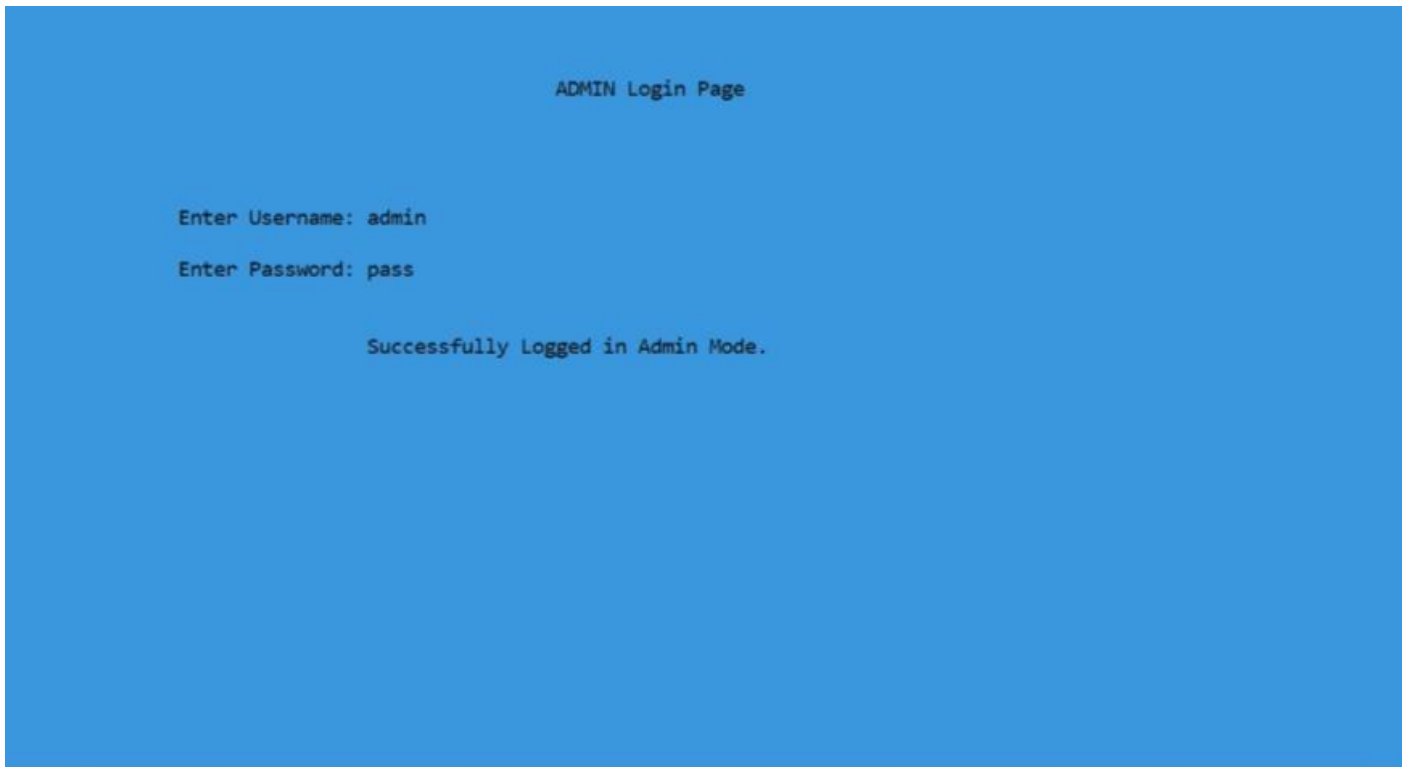


**Fig shows ticket**

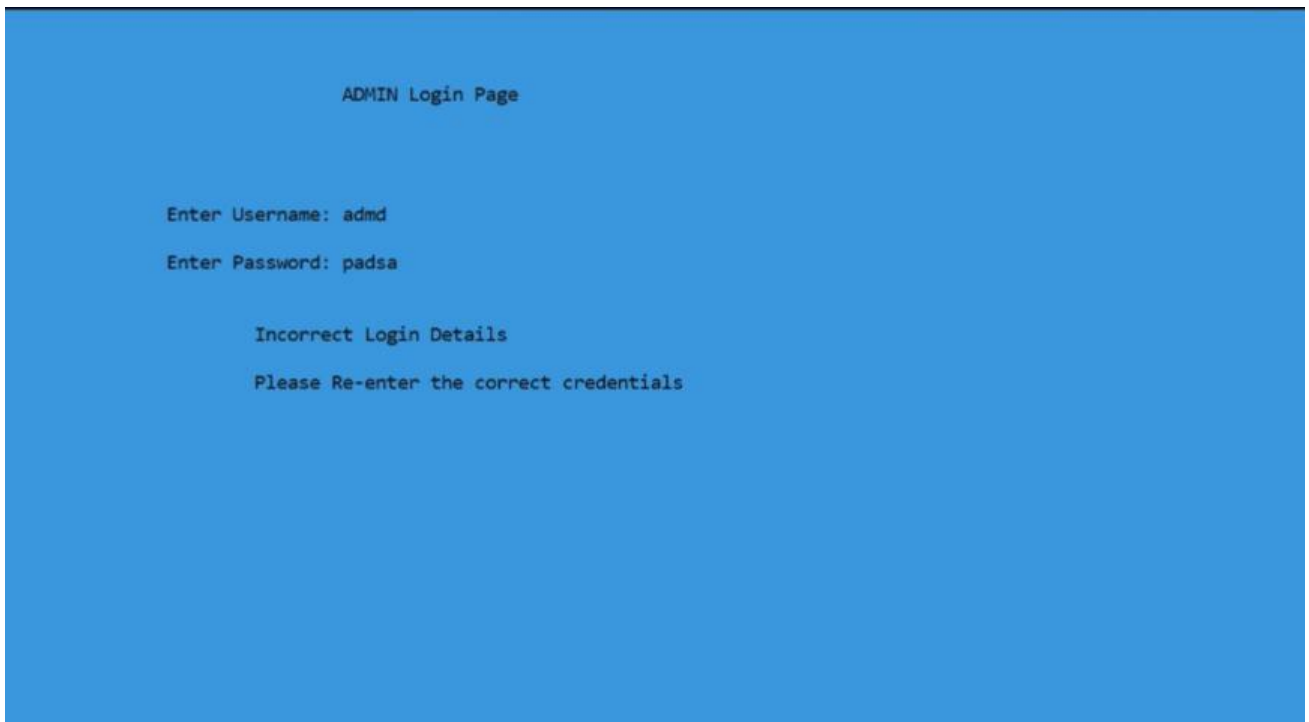




## Fig shows the Admin login



## Fig show incorrect login



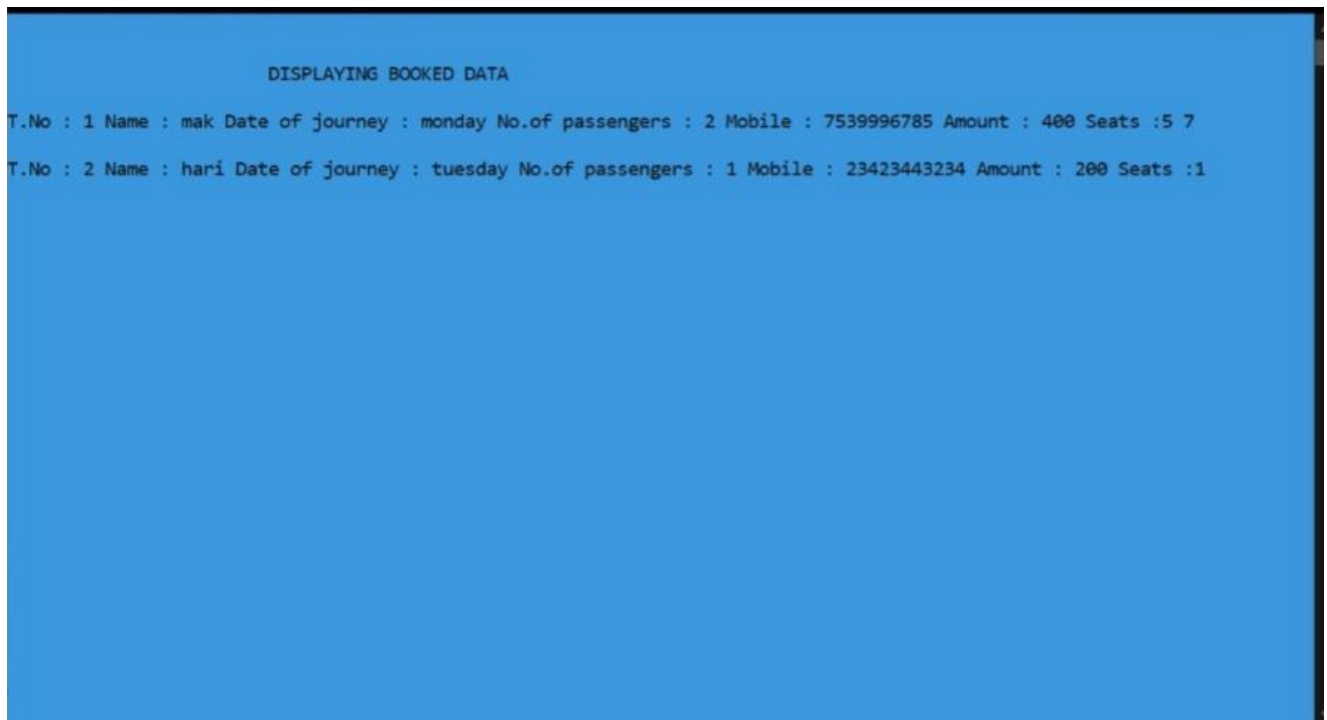
## Fig shows Admin page



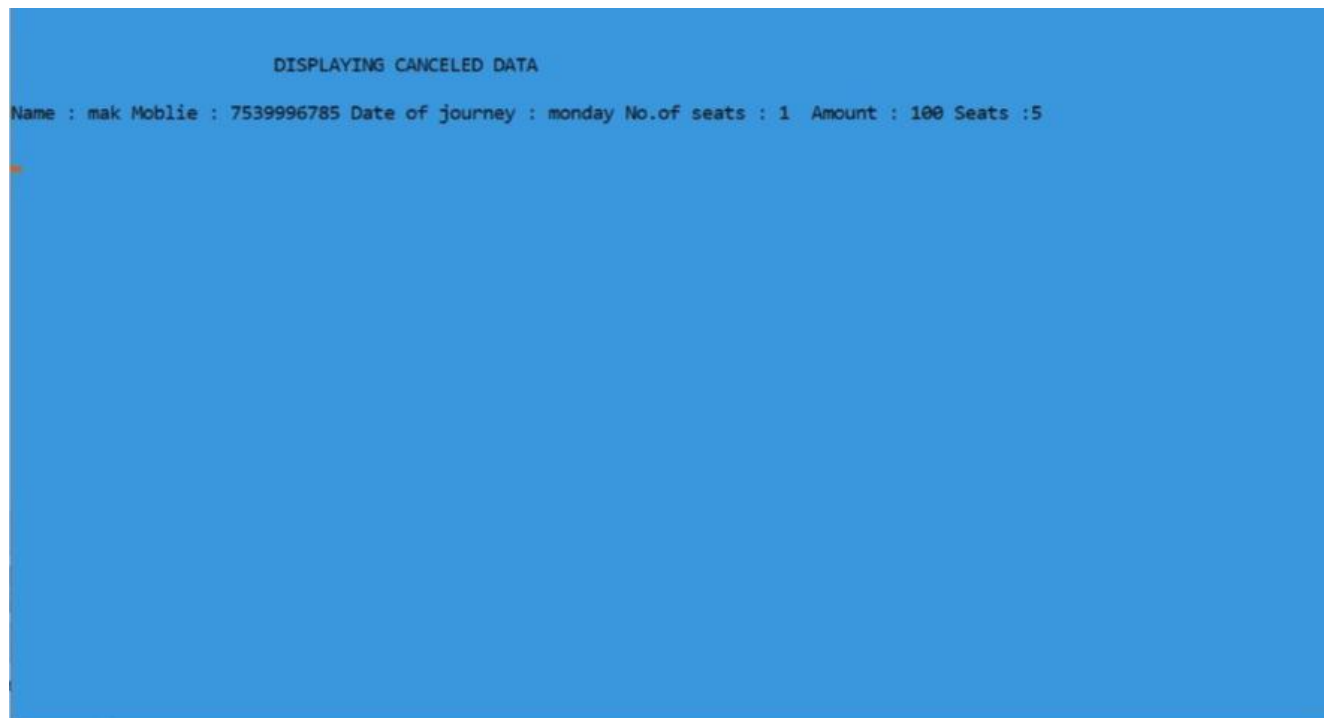
**Fig shows seat emptier**



**Fig shows booked data**



**Fig shows cancellation data**



**Fig shows status**

- 1.MONDAY
- 2.TUESDAY
- 3.WEDNESDAY
- 4.THURSDAY
- 5.FRIDAY
- 6.SATURDAY

Enter the date of travel:

```
~~~~~SEAT STATUS~~~~~  
  
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
```

**Fig shows cancellation process**

~~~~~SEAT STATUS~~~~~

|          |          |          |
|----------|----------|----------|
| 1.empty  | 2.empty  |          |
| 3.empty  | 4.empty  |          |
| 5.booked |          | 6.empty  |
| 7.booked |          | 8.empty  |
| 9.empty  | 10.empty |          |
| 11.empty |          | 12.empty |
| 13.empty |          | 14.empty |

Enter username : mak

Enter Mobile Number : 7539996785

Enter no of seats to cancel : 1

Enter seat no. : 5

Your seats are cancelled succesfully

Disclaimer:ONLY 50 PERCENT OF AMOUNT WILL BE REFUNDED

Cancelled seats: 5

Your 100 rupees will be refunded

Fig shows the Rating (5 Stars are encouraged 😊)

```
Enter rating(1-5) : 5

Thanks for rating us

Ratings: 4.333333
```

Fig shows the end of the program (Hope you liked it)

```
~~~~~Thanks for using our system~~~~~

DESIGNED BY

    Abhinav
    Arvind
    Hari
    Surzith

Ratings: 4.666667
-----
Process exited after 16.03 seconds with return value 0
Press any key to continue . . .
```