

Documentation of Bus Booking system

Name : A Pranathi

Using OOP's in C++

This task i have done it completely using Object Oriented programming in C++

With

- main.cpp
- bus.cpp
- bus.h
- ticket.cpp
- ticket.h
- utils.h

->main.cpp contains the welcome message and then asks to choose between user and admin

```
=====
||               WELCOME TO               ||
||               BUS BOOKING SYSTEM        ||
||               PROJECT                   ||
=====

Press any key to continue . . .
```

Next step redirects to this

```
=====
MAIN MENU
=====

-----
1. User Menu
-----
2. Admin Menu
-----
3. EXIT
-----

Enter your choice:-> |
```

After choosing user menu we have
Several options like

- Book ticket

- View ticket
- Cancel ticket

```
=====
                        USER MENU
=====

-----
1. Book Ticket
-----
2. View Ticket
-----
3. Cancel Ticket
-----
4. BACK
-----

Enter your choice:-> |
```

Here ticket has pnr number, bus number, customer name, source, destination etc stored in Admin has a username and password with it

If they pass the credentials he has options like

- Add bus
- View bus
- Book ticket
- Edit ticket
- view ticket
- Cancel ticket
- View bookings
- View bus details
- Edit bus
- Delete bus

```
ctrl+alt+1

=====
                        ADD BUS
=====

Enter Bus Number:-> 1
Enter Source:-> Hyderabad
Enter Destination:-> Nalgonda
Enter Source Time:-> 12:00
Enter Destination Time:-> 2:00
Enter Bus Fare:-> 170
Bus Added Successfully...!!!:->

Press any key to continue . . . |
```

View buses

```
=====
                        BUSES
=====

-----
Bus No:-> 1
Source:-> Hyderabad
Destination:-> Nalgonda
Time:-> 12:00 - 3:00
Total Seats:-> 32
Seats Remaining:-> 32
Bus Fare:-> 170.00
-----

-----
Bus No:-> 2
Source:-> Hyderabad
Destination:-> Nalgonda
Time:-> 10:00 - 13:00
Total Seats:-> 32
Seats Remaining:-> 32
Bus Fare:-> 170.00
-----

-----
Bus No:-> 3
Source:-> Hyderabad
Destination:-> Vizag
Time:-> 1:00 - 13:00
Total Seats:-> 32
Seats Remaining:-> 32
Bus Fare:-> 1200.00
-----

-----
Bus No:-> 4
Source:-> Hyderabad
Destination:-> Vizag
Time:-> 5:00 - 19:00
Total Seats:-> 32
Seats Remaining:-> 32
Bus Fare:-> 1200.00
-----
```

Booking a ticket for passenger

While booking a ticket after entering source and destination you get a list of buses available

```

=====
                        AVAILABLE BUSES
=====

-----
Bus No:-> 1
Source:-> Hyderabad
Destination:-> Nalgonda
Time:-> 12:00 - 3:00
Total Seats:-> 32
Seats Remaining:-> 32
Bus Fare:-> 170.00
-----

-----
Bus No:-> 2
Source:-> Hyderabad
Destination:-> Nalgonda
Time:-> 10:00 - 13:00
Total Seats:-> 32
Seats Remaining:-> 32
Bus Fare:-> 170.00
-----

Enter Bus Number:-> |

```

count of seats remaining

Total seats

And fare etc information is given

Ticket after booking ticket is like this

```

=====
                        BOOKING DETAILS
=====

-----
Name:-> Pranathi
PNR No:-> PNR7683
Bus No:-> 1
Seat No:-> 1
Date:-> 7-1-2024
From:-> Hyderabad
To:-> Nalgonda
Source Time:-> 12:00
Destination Time:-> 3:00
Bus Fare:-> 170.00
-----

Ticket Booked Successfully...!!

```

You can cancel or edit ticket with pnr number

Seat number updates and a seat is allocated

View bus details with bus number

```
=====
                        BUS INFO
=====

-----
Bus No:-> 2
Source:-> Hyderabad
Destination:-> Nalgonda
Time:-> 10:00 - 13:00
Total Seats:-> 32
Seats Remaining:-> 32
Bus Fare:-> 170.00
-----
```

View bookings has several options

```
=====
                        VIEW BOOKINGS
=====

-----
1. By PNR
-----
2. By Name
-----
3. By Bus
-----
4. By Source
-----
5. By Destination
-----
6. All Bookings
-----
7. BACK
-----

Enter your choice:-> |
```

All bookings can be found like this

```
=====
                        BOOKINGS
=====

-----
Name:-> Pranathi
PNR No:-> PNR7683
Bus No:-> 1
Seat No.:-> 1
Date:-> 7-1-2024
From:-> Hyderabad
To:-> Nalgonda
Source Time:-> 12:00
Destination Time:-> 3:00
Bus Fare:-> 170.00
-----

-----
Name:-> Rahul
PNR No:-> PNR8558
Bus No:-> 3
Seat No.:-> 1
Date:-> 7-1-2024
From:-> Hyderabad
To:-> Vizag
Source Time:-> 1:00
Destination Time:-> 13:00
Bus Fare:-> 1200.00
-----

-----
Name:-> Ram
PNR No:-> PNR8621
Bus No:-> 2
Seat No.:-> 1
Date:-> 7-1-2024
From:-> Hyderabad
To:-> Nalgonda
Source Time:-> 10:00
Destination Time:-> 13:00
Bus Fare:-> 170.00
-----

-----
Name:-> Raj
PNR No:-> PNR8980
Bus No:-> 5
Seat No.:-> 1
Date:-> 7-1-2024
From:-> Mumbai
To:-> Hyderabad
Source Time:-> 12:00
Destination Time:-> 21:00
Bus Fare:-> 1500.00
-----
```