

# ONLINE BUS BOOKING SYSTEM

-BY K. SRIVATSA

V. AJAY

B. PAVAN KUMAR

B. RAGHU RAM

Y. VENKATESH NAIDU

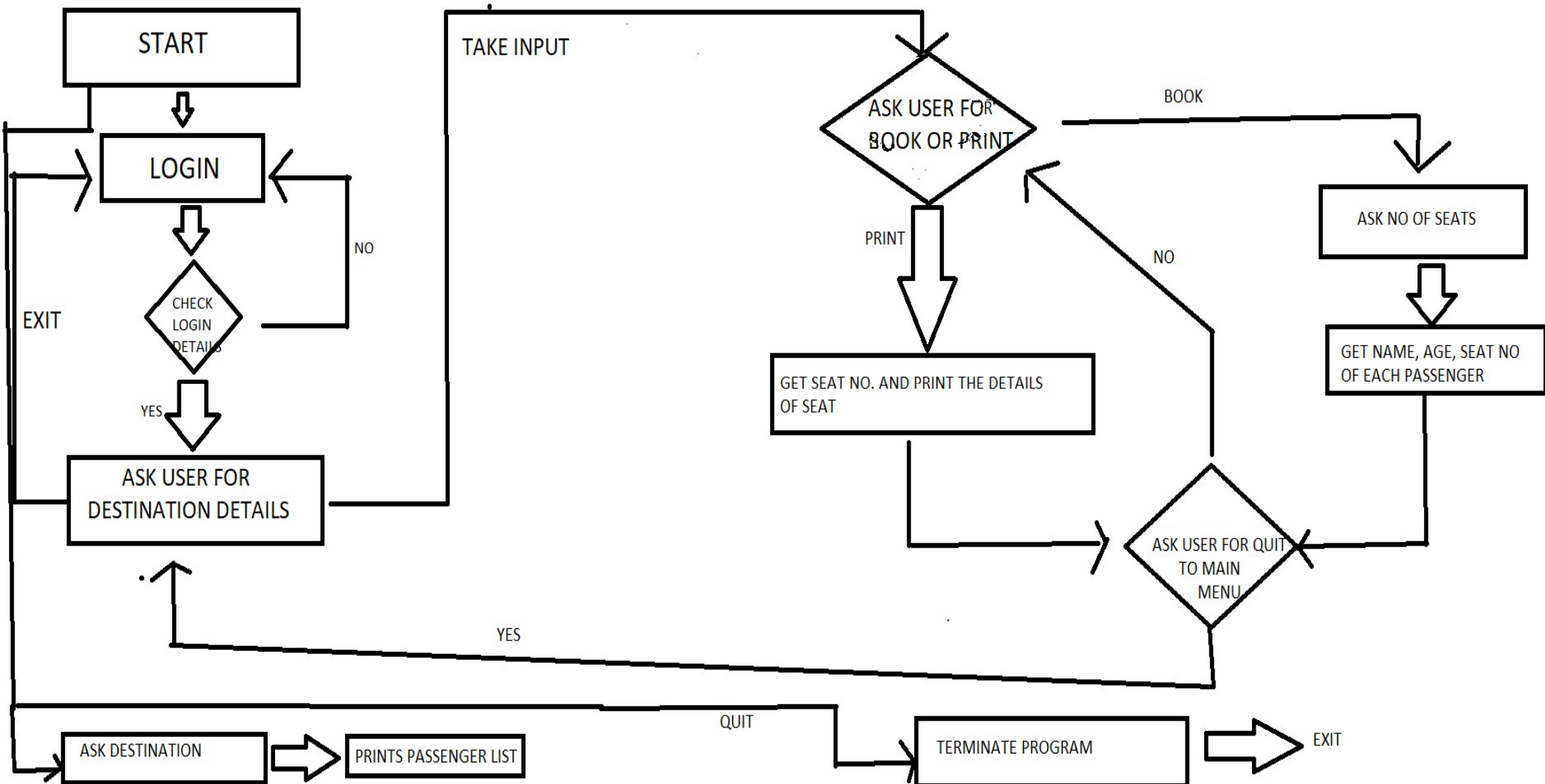
K. RAMESH



# INTRODUCTION

- Online bus booking system is a place where you can book your ticket online as a user from your account.
- You can get you seat and details by a single click, instead of standing in a long queues.
- You can choose various of buses as per your convenience.

# FLOW CHART





## CODE

- For taking the passenger details all at once we used struct definition.
- For every bus we took a struct array of bus containing 32 seats as default.

```
struct bus
{
    string name;
    int age;
    int seat;
    char seat_type;
    char book_status;
};
struct bus b1[32];
struct bus b2[32];
struct bus b3[32];
struct bus b4[32];
struct bus b5[32];
```

# SEAT BOOKING

- For seat booking, we will call the function booking() where we can input our name, age, seat no's.

```
int booking()
{
    int z1;
    char ch5;
    printf("\n");
    cout<<"Enter name : ";
    cin>>na;
    cout<<"Enter age : ";
    cin>>age1;
    cout<<"Enter seat no : ";
    cin>>seat1;
    if(!((seat1%4==1)&&(seat1%4==0)))
        st='W';
    else
        st='A';
    cout<<st;
    printf("\n");
    return seat1;
}
```

# TO SAVE THE DATA IN OUR MEMORY

- We have defined memories for each bus, and we will store the details of the passengers in their memory.

```
b1[seat2].age=age1;  
b1[seat2].name=na;  
b1[seat2].seat=seat2;  
b1[seat2].seat_type=st;  
b1[seat2].book_status='B';
```

## TO PRINT THE TICKET

- We will retrieve the data back from the memory, and execute them to bring our required information
- We ask seat no from the user to perform the operation.

```
cout<<"Enter your seat no : ";
cin>>seat2;
seat2--;
int test=b5[seat2].seat+1;
cout<<"Name : "<<b5[seat2].name<<endl;
cout<<"Age : "<<b5[seat2].age<<endl;
cout<<"Seat : "<<test<<endl;
cout<<"Seat Type : "<<b5[seat2].seat_type<<endl;
cout<<"Booking Status : "<<b5[seat2].book_status<<endl;
printf("\n");
```

## TO GET THE FINAL LIST OF PASSENGERS

- Here we have used a counter which checks the tickets which are only booked will be printed and else will be carried away.

```
cout<<"Bus heading from "<<loc<<" to Hyderabad. Passengers: \n"<<endl;
for(j=0;j<32;j++)
{
    if(b1[j].age!=0)
    {
        cout<<"Number "<<c++<<":"<<endl;
        cout<<"Name : "<<b1[j].name<<endl;
        cout<<"Age : "<<b1[j].age<<endl;
        cout<<"Seat : "<<b1[j].seat<<endl;
        printf("\n");
    }
}
```



# OUTPUT

➤ Output looks like this. But it will be explained by executing it.

```
Welcome to Home .
Enter your Location
Agartala
Welcome back
Enter your choice :
1. Login through different user          2. Get List of passengers          3. Close the Booking System
1
*****Welcome to Bus ticket booking system*****
Enter your user id : Srivatsa
Hello Srivatsa
Enter your password : 1234
Login successful
***** Welcome to Online Bus Ticketing System *****
Your location : Agartala
Available buses from Agartala are :
1. Hyderabad
2. Vishakhapatnam
3. Srikakulam
4. Chennai
5. Mumbai
6. Go to Main Menu
Enter your Location between number 1 and 6
```



## USES AND BENEFITS IN OUR CODE

- We used struct type arrays instead of double dimensional arrays, which helped us to store the different data type fields in one slot.
- We have user login only for registered at the beginning. Hence outsider cannot tamper the data. If he wants he has to register. So the data is safe.
- Each and every array has different struct arrays. Hence we debugging is easy when we want to change out code.
- Linked lists not preferred here because we know a bus can have only limited seats. So struct array is defined here.



# CONCLUSION

- Hence we conclude by saying that we have successfully executed the code and got the required output.
- This process of online booking is more time saver than standing in queues.
- It can avoid overcrowding and it distributes the ticket fast.



THANK YOU