

Final Report

(Railway Ticket Reservation System)

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1 Abstract

Brief Description:

The Railway Ticket Reservation System facilitates the passengers to enquire about the trains available, booking and cancelling of tickets, enquire about the status of the booked ticket, etc. The aim is to design and develop a data base maintaining the records of the different trains, train status and passengers. To use this system, its user should be registered and should have a valid login id and password to make their reservation. Users without login id and password can make new registration and get their id and set password. This is to keep each passenger safe by preventing fraud and secure transactions. After registration, passengers have to enter the source and destination station name and the system will provide the details of the trains available for the particular destination and their arrival and departure time and date. Upon selecting a particular train the details of available seats would be displayed. The passenger can choose the seat of his choice. The fare details would be displayed after the selection process. There is an option for female passengers to opt to travel with female co-passengers. This system also provides E-pass facilities for passengers who regularly travel by train. On availing E-pass facility the passenger is eligible to get certain discounts on the ticket fare. There is also an option to reserve food while booking the ticket. The passenger can also order food while travelling and get the food delivered in the next station. The passenger can access this facility using his

PNG code. On cancelling the order one hour before delivery allows a 90 percent refund for the passenger

Key Features:

1. Registration of user
2. Prevent fake registrations and also ensure safe transactions
3. Booking tickets
4. Cancelling booked tickets
5. Accessing train schedule
6. Display of seat details on selecting a train
7. Display of fare as per input received
8. Food reservation for passengers
9. E-pass facility
10. Option of opting to travel with female co-passengers for ladies

2 Introduction

The Railway Ticket Reservation System facilitates the passengers to enquire about the trains available, booking and cancelling of tickets, enquire about the status of the booked ticket, etc. The aim is to design and develop a data base maintaining the records of the different trains, train status and passengers.

Registration of user: Takes the details of a passenger and registers him/her and gives a username and password to login.

Login: On entering the correct username and password, you'll be navigated to the main menu where you can use the system.

Main Menu: Displays the operations you can perform in the system

Accessing Train Schedule: Displays the train schedule showing the train details like train number, train name, train arrival and departure timing and the source and destination.

Booking Ticket: Takes the input from the user and books ticket and saves the details of the ticket in a file.

Option for opting to travel with female co-passengers: If a passenger is female and wants to travel with female co-passenger then that passenger is allocated suitable seats.

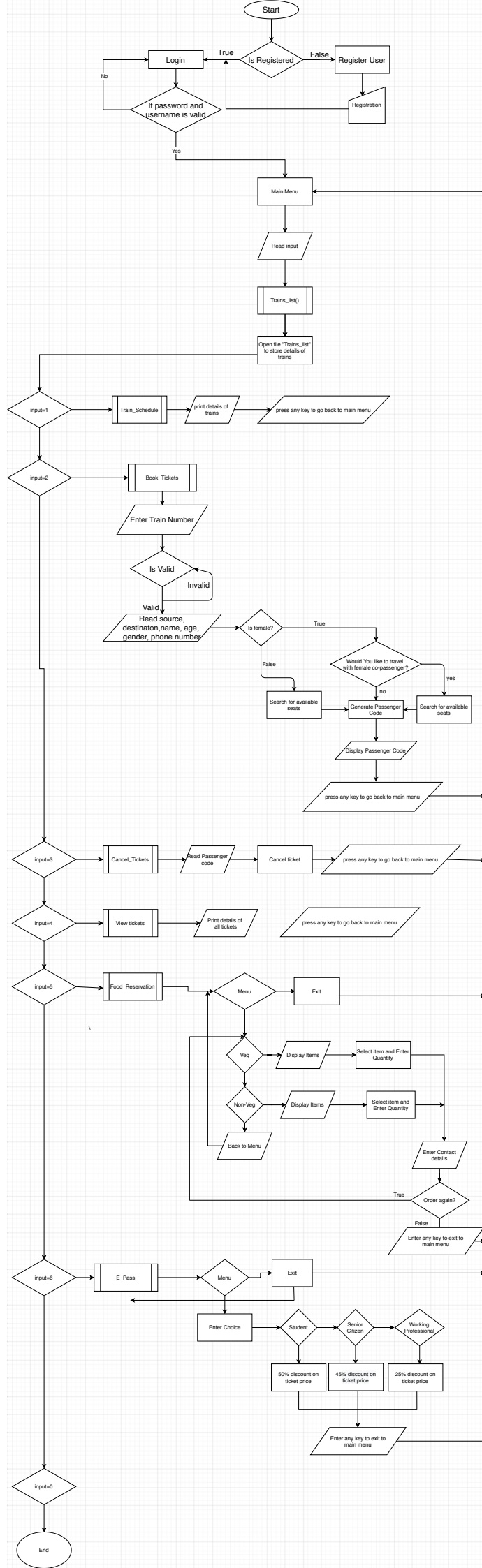
Cancelling ticket: In case a person wishes to cancel his booked ticket, he can do so by giving his passenger code.

View booked tickets: This option lets the user see all the tickets that have been booked till now.

Food reservation: A passenger can order food while travelling and get it within the next half an hour. He gets an option to choose from the veg and non-veg menu. Passenger has to give his details like name, phone number, seat no, etc to order food.

E-pass: Students, working professionals and senior citizens can avail an option for E-pass. They will have to pay for the E-pass and can avail their e-pass by providing their details.

3 Flowchart or Algorithm



4 Source Code

1. menu.c

```
#include<stdio.h>
#include<string.h>
#include "structures.h"
#include "epass.h"
#include "foodo.h"
#include<stdlib.h>
#include<windows.h>
#include<conio.h>

static int input,t_index=0,m=1,f=1;

void Trains_list()
{
    FILE *fp=fopen("E:\\Trains_list.txt","w");
    int trainArraySize = 5;
    Trains trains[5]={ {12267,"AC Durlando Express","Mumbai","Ahmedabad","2019-01-01","12:00","14:00"} };
    for(int i=0;i<trainArraySize;i++)
    {
        Trains train = trains[i];
        fwrite(&train,sizeof(Trains),1,fp);
    }
    fclose(fp);
}

void Train_Schedule()
{
    system("cls");
    Trains tr;
    FILE *fp=fopen("E:\\Trains_list.txt","r");
    printf("\t\t\t\t\t");
    for(int i=0;i<110;i++)
        printf(" ");
    printf("\n\t\t\t\t\t");
}
```



```
Trains tr;
FILE *fp=fopen("E:\\Trains_list.txt","r");
printf("\t\t\t\t\t");
for(int i=0;i<110;i++)
    printf("-");
printf("\n\t\t\t\t\t");
for(int i=0;i<110;i++)
    printf("-");
printf("\n\t\t\t\t\t");
printf("\t\t\t\t\t");
printf("Train Schedule\n");
printf("\t\t\t\t\t");
for(int i=0;i<110;i++)
    printf("-");
printf("\n\t\t\t\t\t");
for(int i=0;i<110;i++)
    printf("-");
printf("\n\t\t\t\t\t");
printf("Train no.\tTrain name\t\tSource\t\tDestination\tArrival time\tDeparture time\n");
printf("\t\t\t\t\t");
for(int i=0;i<110;i++)
    printf("-");
while(fread(&tr,sizeof(Trains),1,fp))
    printf("\n\t\t\t\t\t%d\t\t%s\t\t%s\t\t%s\t\t%s\n",tr.train_no,tr.train_name,tr.Source,tr.Destination,tr.Arrival_time,tr.Departure_time);
fclose(fp);
printf("\t\t\t\t\t");
for(int i=0;i<110;i++)
    printf("-");
printf("\n\t\t\t\t\t");
for(int i=0;i<110;i++)
    printf("-");
```



```

void Book_Tickets()
{
    pass_t p[100];
    int tr_no,i,j=0,g;
    char ch,c,str[5],cc;
    Trains tr;
    FILE *fp=fopen("E:\\Trains_list.txt","rb");
    label:
        system("cls");
        Show_Train_Schedule();
        printf("\n\n:: Ticket Booking Counter::\n");
        printf("Enter train no.:" );
        scanf("%d",&tr_no);
        for(i=1;i<6;i++)
        {
            fread(&tr,sizeof(Trains),1,fp);
            if(tr_no==tr.train_no)
                j=i;
        }
    if(j!=0)
    {
        p[t_index].train_no=tr_no;
        printf("Enter the details:\n");
        while((getchar())!='\n');
        printf("Passenger name:");
        gets(p[t_index].name);
        printf("Age:");
        scanf("%d",&p[t_index].age);
        label1:
        printf("Gender (1.Male 2.Female 3.Other) :");
        scanf("%d",&g);
        while((getchar())!='\n');
        if(g==1||g==2||g==3)

```

```

{
    switch(g)
    {
        case 1:
            strcpy(p[t_index].gender,"Male");
            break;
        case 2:
            strcpy(p[t_index].gender,"Female");
            label3:
            printf("Would you like to travel with female co-passenger");
            scanf("%c",&cc);
            if(cc=='y' || cc=='Y')
            {
                if(f<11)
                {
                    p[t_index].seat_no=f;
                    f++;
                }
                else
                {
                    printf("Sorry no seats available");
                }
            }
            else if((cc=='n') || (cc=='N'))
            {
                p[t_index].seat_no=0;
            }
            else
            {
                printf("Invalid input! Try again");
                goto label3;
            }
            while((getchar())!='\n');
    }
}

```

```

        break;
    case 3:
        strcpy(p[t_index].gender," Other");
        break;
    }
}
else
{
    printf("\nInvalid input! Try again\n");
    goto label1;
}
label2:
printf("Phone number:");
gets(p[t_index].phone_no);
if(strlen(p[t_index].phone_no)<10)
{
    printf("\nInvalid input! Try again\n");
    goto label2;
}
printf("Do you want to confirm your booking?(y/n)");
c=getch();
printf("%c",c);
if(c=='y' || c=='Y')
{
    printf("\nYour ticket has been booked successfully!\n");
    itoa(t_index+1,str,10);
    strcpy(p[t_index].png_code,"PNG_");
    strcat(p[t_index].png_code,str);
    if((g==1||g==3)||((g==2&& p[t_index].seat_no==0))
    {
        p[t_index].seat_no=m+10;
        m++;
    }
}

```

```

strcpy(p[t_index].train_name, tr.train_name);
p[t_index].t_fare=tr.fare;
printf("\nWait till your ticket is being generated...");
Sleep(1000);
system("cls");
char pcode[50], tN[50], pN[50];
strcpy(pcode, p[t_index].png_code);
strcpy(tN, p[t_index].train_name);
strcpy(pN, p[t_index].name);
int tn = p[t_index].train_no;
int sn = p[t_index].seat_no;
FILE *tt;
tt=fopen("tickets.txt", "a");
fprintf(tt, "Passenger code: %s || Train no.: %d || Train name: %s || P\n", pcode, tn, tN);
fclose(tt);
printf("\n\nTicket details:\n");
printf("Passenger code: %s\nTrain no.: %d\nTrain name: %s\nSource: %s\n", pcode, tn, tN, p[t_index].source);
t_index++;

j=0;
}
}
else
{
printf("Invalid train number\n");
printf("Do you want to try again?(y/n)");
ch=getch();
printf("%c", ch);
if(ch=='y' || ch=='Y')
{
goto label;
}
}
}
fclose(fp);

```

```

    printf("\n\nPress any key to go back to main menu");
    getch();
    system(" cls ");
    menu();
}

void View_Tickets()
{
    system(" cls ");
    FILE *fptr = fopen(" tickets.txt", "r");
    printf(":::Ticket Details:::\n\n");
    char ch = fgetc(fptr);
    while (ch != EOF)
    {
        printf ("%c", ch);
        ch = fgetc(fptr);
    }
    fclose(fptr);
    printf("\n\nPress any key to go back to main menu");
    getch();
    system(" cls ");
    menu();
}

void View_File(char* filename)
{
    FILE *fptr = fopen(filename, "r");
    printf(":::File Contents:::\n\n");
    char ch = fgetc(fptr);
    while (ch != EOF)
    {
        printf ("%c", ch);
        ch = fgetc(fptr);
    }
}

```

```

    printf("\n\nPress any key to go back to main menu");
    getch();
    menu();
}

void tryCancel(char* pcode)
{
    FILE *fp;
    FILE *tempfp;
    char str[MAXCHAR];
    char* filename = "tickets.txt";
    char* tempfile = "temptickets.txt";

    fp = fopen(filename, "r");
    tempfp = fopen(tempfile, "w");
    if (fp == NULL)
    {
        printf("Could not open file %s", filename);
        return 1;
    }
    if (tempfp == NULL){
        printf("Could not open file %s", tempfile);
        return 1;
    }
    while (fgets(str, MAXCHAR, fp) != NULL)
    {
        if (strstr(str, pcode) != NULL)
        {
            printf("\nThe following ticket will be cancelled:\n");
            printf("%s", str);
        }
        else
        {

```

```

        fprintf(tempfp,"%s",str);
    }
}
printf("\nTicket cancellation process completed!\n\n");
fclose(fp);
fclose(tempfp);
remove(filename);
rename(tempfile , filename);
}

void Cancel_Tickets()
{
    system("cls");
    char pcode[20];
    printf("Enter passenger code :");
    scanf("%s",pcode);
    FILE*fp1=fopen("tickets.txt","r");
    if(fp1==NULL)
    {
        printf("\nNo bookings done yet");
    }
    fclose(fp1);
    tryCancel(pcode);
    printf("\n\nPress any key to go back to main menu");
    getch();
    system("cls");
    menu();
}

void Food_Reservation()
{
    mainmenuf();
}

void E_pass()

```

```

{
    mainmenu_e ();
}

void menu()
{
    for (int i=0;i<422;i++)
    {
        printf(" -");
    }
    printf("\t\t\t\t\t\t\t\t\t\t");
    printf("\t\t\t\t\t\t\t\t\t\t");
    printf("RAILWAY TICKET RESERVATION SYSTEM\n");
    for (int i=0;i<422;i++)
    {
        printf(" -");
    }
    printf(" :: Main Menu :: \n");
    printf("1. Train Schedule\n");
    printf("2. Booking Tickets\n");
    printf("3. Cancelling Tickets\n");
    printf("4. View Booked Tickets\n");
    printf("5. Food Reservation\n");
    printf("6. E-pass\n");
    printf("7. Exit\n");
    printf("Choose an option: ");
    scanf("%d",&input);
    Input();
}

void Input()
{
    Trains_list ();
    if (input==1)
        Train_Schedule ();
}

```



```

else if(input==2)
    Book_Tickets();
else if(input==3)
    Cancel_Tickets();
else if(input==4)
    View_Tickets();
else if(input==5)
    Food_Reservation();
else if(input==6)
    E_pass();
else if(input==7)
    exit(0);
else
{
    printf("Invalid input");
    Sleep(1000);
    system("cls");
    menu();
}
}

int main(void)
{
    First_page();
    Login_Register();
    menu();
    return 0;
}

```

2. structures.h

```

#ifndef STRUCTURES_H_INCLUDED
#define STRUCTURES_H_INCLUDED
struct Train
{

```

```

    int  train_no;
    char  train_name[50];
    char  from[50];
    char  to[50];
    char  dep_time[10];
    char  arr_time[10];
    int  fare;
    int  f_seats;
    int  m_seats;
};

struct Passenger
{
    char  png_code[50];
    int  train_no;
    //char  from[50];
    //char  to[50];
    char  name[50];
    int  age;
    char  gender[10];
    char  phone_no[50];
    int  seat_no;
    char  train_name[50];
    int  t_fare;
};

struct user
{
    char  password[100];
    char  state[50];
    char  address[1000];
    char  firstname[100];
    char  lastname[100];
    char  mobilenum[10];
    char  email[50];

```

```

    char gender[50];
    char profession[100];
    char status[100];
    int pincode;
    char username[100];
    //char from[50];
    //char to[50];
};

typedef struct user M;
typedef struct Passenger pass_t;
typedef struct Train Trains;

void Trains_list();
void Train_Schedule();
void menu();
void Input();
void Book_Tickets();
void Cancel_Tickets();
void View_Tickets();
void Tickets();

void First_page();
void Login();
void Register();
void Login_Register();

#endif

```

3. first_screen.c

```

#include<stdio.h>
#include<stdlib.h>
#include<windows.h>

```

```

#include "structures.h"
#include<dos.h>
#include<dir.h>
#include<string.h>
#include<conio.h>
static char c[10];
static char username[100],password[50];
void First_page()
{
    for(int i=0;i<422;i++)
    {
        printf(" ");
    }
    printf("\t\t\t\t\t\t\t\t\t\t");
    printf("\t\t\t\t\t\t\t\t\t\t");
    printf("RAILWAY TICKET RESERVATION SYSTEM\n");
    for(int i=0;i<422;i++)
    {
        printf(" ");
    }
    printf("1.Login\n2.New User? Register\n");
}
void Login()
{
    system("cls");
    lu:
    printf(":::Login:::\n");
    printf("Username:");
    scanf("%s",username);
    if(strcmp("admin",username)!=0)
    {
        printf("Invalid username");
        goto lu;
    }
}

```

```

    }
    lp:
    printf(" Password:");
    for(int i=0;i<8;i++)
    {
        password[i]=getch();
        printf("*");
    }
    if(strcmp("password",password)!=0)
    {
        printf("Invalid password");
        goto lp;
    }
    printf("\nPlease wait...");
    Sleep(1000);
    system("cls");
}

void Register()
{
    system("cls");
    registration();
    Sleep(1000);
    Login();
}

void Login_Register()
{
    scanf("%s",c);
    if(strcmp(c,"1")==0)
        Login();
    else if(strcmp(c,"2")==0)
        Register();
    else
    {

```

```

        printf("Enter a valid option:");
        Login_Register();
    }
}

```

4. registration.c

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
#include "structures.h"
static int index;
int registration()
{
    M multiple[100];
    int i,g,status;
    index=0;
    while((getchar())!='\n');
    printf(":::Registration desk:::\n");
    printf("Firstname :");
    gets(multiple[index].firstname);
    printf("Lastname :");
    gets(multiple[index].lastname);
    printf("Mobile number :");
    gets(multiple[index].mobilenumber);
    printf("Gender:(1.Male 2.Female 3.Other):");
    scanf("%d",&g);
    switch(g)
    {
        case 1:
            strcpy(multiple[index].gender,"Male");
            break;
        case 2:
            strcpy(multiple[index].gender,"Female");

```

```

        break;
case 3:
    strcpy ( multiple [ index ]. gender , " Other " );
    break;
}
printf ( " Martial  status (1.Married   2.Unmarried):" );
scanf ( "%d", & status );
switch ( status )
{
case 1:
    strcpy ( multiple [ index ]. status , " Married " );
    break;
case 2:
    strcpy ( multiple [ index ]. status , " Unmarried " );
    break;
}

    while ( ( getchar () ) != '\n' );
printf ( " Profession  :" );
gets ( multiple [ index ]. profession );
printf ( " Residential  address  :" );
gets ( multiple [ index ]. address );
printf ( " Pin  code  :" );
scanf ( "%d", & multiple [ index ]. pincode );
    while ( ( getchar () ) != '\n' );
printf ( " State  :" );
gets ( multiple [ index ]. state );
printf ( " Email-id  :" );
gets ( multiple [ index ]. email );
strcpy ( multiple [ index ]. username , " admin " );
strcpy ( multiple [ index ]. password , " password " );
printf ( " Username  :%s\n", multiple [ index ]. username );
printf ( " Password  :%s\n", multiple [ index ]. password );
index++;

```

```

        return 0;
    }

```

5. epass.h

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<stdlib.h>
#include"structures.h"

void returnfunc();
void mainmenu_e();
void menu_e();
void student();
void old();
void job();

void mainmenu_e()
{
    system("cls");
    printf(":::E-Pass Facility:::\n");
    printf("1. Menu\n2. Exit\n\nEnter Your Choice :");
    int choice;
    scanf("%d",&choice);
    if(choice==1)
    {
        menu_e();
    }
    else if(choice==2)
    {
        system("cls");
        menu();
    }
}

```



```

        else
        {
            printf("\n\t      Enter valid choice.");
        }

    }

void menu_e()
{
    system("cls");
    printf("You are :\n");
    printf("1. Student\n2. Senior Citizen\n3. Working Professional\n4. Ba
    printf("Enter choice :");
    int k;
    scanf("%d",&k);
        int wait;
    for (wait=0;wait<=10000;wait++)
    {
        printf("\rIn progress : %d",wait/100);
    }
    if (k==1)
    {
        system("cls");
        student();
    }
    else if (k==2)
    {
        system("cls");
        old();
    }
    else if (k==3)
    {
        system("cls");

```

```

        job();
    }
    else if(k==4)
    {
        system("cls");
        mainmenu_e();
    }
    else
    {
        printf("Wrong Input !Please Re-enter The Correct Option.....\n");
        menu_e();
    }
}

void student()
{
    char name1[20];
    char name2[20];
    char school[20];
    char phone[50];
    int age;
    char address[40];
    char ch[10];

    printf("Please Give Your Details :\n");
    gets(ch);
    printf("First Name :");
    gets(name1);
    printf("Last Name :");
    gets(name2);
    printf("School Name :");
    gets(school);
    printf("Address :");
    gets(address);
    printf("Phone :");

```

```

    gets(phone);
    printf(" Age :");
    scanf("%d",&age);
    printf("\n\n");
    printf(" Entered Details:\n");
    printf(" Pay Rs.450");
    system(" cls ");
    printf(" E-Pass : \n");
    printf(" First Name :%s\nLast Name :%s\nPhone :%s\nAge :%d\n Address :");
    printf("\n\nPress any key to go back to main menu");
    getch();
    system(" cls ");
    menu_e();
}

void old()
{
    char name1[20];
    char name2[20];
    char phone[50];
    int age;
    char address[40];
    printf(" Please Give Your Details : \n");
    printf(" First Name :");
    while(getch!='\n');
    gets(name1);
    printf(" Last Name :");
    gets(name2);
    printf(" Phone :");
    gets(phone);
    printf(" Age :");
    scanf("%d",&age);
    printf("\n\n");
    printf(" Your Entered Details Are : \n");

```

```

printf("Pay Rs.500");
system("cls");
printf("E-Pass : \n");
printf("First Name : %s \n Last Name : %s \n Phone : %s \n Age : %d \n Address : %s \n");
printf("\n \n Press any key to go back to main menu");
getch();
system("cls");
menu_e();
}
void job()
{
    char name1[20];
    char name2[20];
    char phone[50];
    int age;
    char address[40];
    char work[40];
    printf("Please Give Your Details : \n");
    printf("First Name :");
    while(getch != '\n');
    gets(name1);
    printf("Last Name :");
    gets(name2);
    printf("Address :");
    gets(address);
    printf("Work Address :");
    scanf("%s", work);
    printf("Phone :");
    gets(phone);
    printf("Age :");
    scanf("%d", &age);
    printf("\n \n");
    printf("Your Entered Details Are : \n");

```

```

printf("Pay Rs.750");
system("cls");
printf("E-Pass : \n");
printf("First Name :%s\nLast Name :%s\nPhone :%s\nAge :%d\nAddress :%s\n");
printf("\n\nPress any key to go back to main menu");
getch();
system("cls");
menu_e();
}

```

6. foodo.h

```

#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<stdlib.h>
void returnfunc();
void mainmenuf();
void menuf();
void vegetarian();
void nonvegetarian();
void details();

FILE *fp,*ft,*dp,*dt;

int s;
char findrecord;
int again;
int quantity;
double total=0;
int t;

void mainmenuf()
{

```

```

system(" cls ");
printf(" :::Food Order System:::\n");
printf("Go To :\n");
printf("1. Menu\n2. Exit\n");
printf("Enter your choice :");
int choice;
scanf("%d",&choice);
if(choice==1)
{
    menuf();
}
else if(choice==2)
{
    system(" cls ");
    printf("\n\n\n");
    printf("*****THANK YOU*****");
    printf("*****Feeling HUNGRY ? Just Call PKG CATERERS*****");
    Sleep(1000);
    system(" cls ");
    menu();
}
else
{
    printf("\nEnter valid choice");
}
}

void menuf()
{

    system(" cls ");
    printf("You are :\n1. Vegetarian\n2. Non-vegetarian\n3. Press 0 to ex

```

```

int k;
scanf("%d",&k);
for(int wait=0;wait<=10000;wait++)
{
    printf("\rIn progress : %d",wait/100);
}
if(k==1)
{
    system("cls");
    vegetarian();
}
else if(k==2)
{
    system("cls");
    nonvegetarian();
}
else if(k==0)
{
    system("cls");
    mainmenuf();
}
else
{
    printf("Wrong Input !Please Re-enter The Correct Option\n");
    menuf();
}
}

void vegetarian()
{
    int choice;
    int again;
    int quantity;
    printf(":::Veg Menu:::\n");

```

```

    char v;

    FILE *vmenu;

vmenu=fopen("vegmenu.txt","rt");
    while((v=getc(vmenu))!=EOF)
{
    printf("%c",v);
}
fclose(vmenu);
vl:
printf("\nEnter What You Want :");
    scanf("%d",&choice);
    if(choice==1)
    {
        printf("Quantity :");
        scanf("%d",&quantity);
        total=total + 40*(quantity);
        printf("\n");

        printf("Press 1 To Order Again :\nPress 2 To Get Your Total:\n\nEnter");
        scanf("%d",&again);
        printf("\n");
        if(again==1)
        {
            printf("\n\n");
            goto vl;
        }
        else if(again==2)
        {
            printf("Your Total Amount Is : Rs. %.2lf\n\n",total);
            int totl = total;
            FILE *ttl;
            ttl = fopen("order.txt","a");

```



```

        fprintf(ttl,"\nGrand Total : %d\n",totl);
        fclose(ttl);
        details();
    }
}
else if(choice==2)
{
    printf("Quantity :");
    scanf("%d",&quantity);
    total=total + 60*(quantity);
    printf("Press 1 To Order Again :\nPress 2 To Get Your Total:\n");
    scanf("%d",&again);
    if (again==1)
    {
        printf("\n\n");
        goto vl;
    }
    else if (again==2)
    {
        printf("Your Total Amount Is : Rs. %.2lf\n\n",total);
        int totl = total;
        FILE *ttl;
        ttl = fopen("order.txt","a");
        fprintf(ttl,"\nGrand Total : %d\n",totl);
        fclose(ttl);
        details();
    }
}
else if(choice==3)
{
    printf("Quantity : ");
    scanf("%d",&quantity);
    total=total + 45*(quantity);

```

```

printf(" Press 1 To Order Again :\nPress 2 To Get Your Total:\n");
scanf("%d",&again);
if (again==1)
{
    printf("\n\n");
    goto vl;
}
else if (again==2)
{
    printf("Your Total Amount Is : Rs. %.2lf\n\n",total);
    int totl = total;
    FILE *ttl;
    ttl = fopen("order.txt","a");
    fprintf(ttl,"\nGrand Total : %d\n",totl);
    fclose(ttl);
    details();
}
}
else if (choice==4)
{
    printf("Quantity :");
    scanf("%d",&quantity);
    total=total + 35*(quantity);
    printf(" Press 1 To Order Again :\nPress 2 To Get Your Total:\n");
    scanf("%d",&again);
    if (again==1)
    {
        printf("\n\n");
        goto vl;
    }
    else if (again==2)
    {
        printf("Your Total Amount Is : Rs. %.2lf\n\n",total);

```

```

        int totl = total;
        FILE *ttl;
        ttl = fopen("order.txt","a");
        fprintf(ttl,"\nGrand Total : %d\n",totl);
        fclose(ttl);
        details();
    }
}
else if(choice==5)
{
    printf("Quantity :");
    scanf("%d",&quantity);
    total=total + 150*(quantity);
    printf("Press 1 To Order Again :\nPress 2 To Get Your Total:\n");
    scanf("%d",&again);
    if(again==1)
    {
        printf("\n\n");
        goto vl;
    }
    else if(again==2)
    {
        printf("Your Total Amount Is : Rs. %.2lf\n\n",total);
        int totl = total;
        FILE *ttl;
        ttl = fopen("order.txt","a");
        fprintf(ttl,"\nGrand Total : %d\n",totl);
        fclose(ttl);
        details();
    }
}
else if(choice==6)

```

```

    {
        system("cls");
        menuf();
    }
    else
    {
        printf("Wrong Input! Re-enter THE Correct Option\n\n");
        if(getch())
            vegetarian();
    }
}

void nonvegetarian()
{
    int choice;
    int again;
    int quantity;
    printf(":::Non Veg Menu:::\n");
    char n;
    FILE *nmenu;
    nmenu = fopen("nonveg.txt","rt");
    while((n=getc(nmenu))!=EOF)
    {
        printf("%c",n);
    }
    nvl:
    printf("\n\nEnter Choice Number of the Item You Want :");
    scanf("%d",&choice);
    if(choice==1)
    {
        printf("Quantity : ");
        scanf("%d",&quantity);
        total=total + 100*(quantity);
        printf("\n");
    }
}

```

```

printf(" Press 1 To Order Again :\nPress 2 To Get Your Total:\n");
scanf(" %d",&again);
if (again==1)
{
    printf("\n\n");
    goto nvl;
}
else if (again==2)
{
    printf("Your Total Amount Is :%.2lf\n\n",total);
    int totl = total;
    FILE *ttl;
    ttl = fopen("order.txt","a");
    fprintf(ttl,"\nGrand Total : %d\n",totl);
    fclose(ttl);
    details();
}
}
else if (choice==2)
{
    printf("Quantity :");
    scanf(" %d",&quantity);
    total=total + 120*(quantity);
    printf("\n");
    printf(" Press 1 To Order Again :\nPress 2 To Get Your Total:\n");
    scanf(" %d",&again);
    if (again==1)
    {
        printf("\n\n");
        goto nvl;
    }
    else if (again==2)
    {

```

```

        printf("Your Total Amount Is :%.2lf\n\n",total);
        int totl = total;
        FILE *ttl;
        ttl = fopen("order.txt","a");
        fprintf(ttl,"\nGrand Total : %d\n",totl);
        fclose(ttl);
        details();
    }
}
else if(choice==3)
{
    printf("Quantity :");
    scanf("%d",&quantity);
    total=total + 85*(quantity);
    printf("\n");
    printf("Press 1 To Order Again :\nPress 2 To Get Your Total:\n");
    scanf("%d",&again);
    if (again==1)
    {
        printf("\n\n");
        goto nvl;
    }
    else if (again==2)
    {
        printf("Your Total Amount Is :%.2lf\n\n",total);
        int totl = total;
        FILE *ttl;
        ttl = fopen("order.txt","a");
        fprintf(ttl,"\nGrand Total : %d\n",totl);
        fclose(ttl);
        details();
    }
}
}

```

```

else if(choice==4)
{
    printf("Quantity :");
    scanf(" %d",&quantity);
    total=total + 35*(quantity);
    printf("\n");
    printf("Press 1 To Order Again :\nPress 2 To Get Your Total:\n");
    scanf(" %d",&again);
    if (again==1)
    {
        printf("\n\n");
        goto nvl;
    }
    else if (again==2)
    {
        printf("Your Total Amount Is :%.2lf\n\n",total);
        int totl = total;
        FILE *ttl;
        ttl = fopen("order.txt","a");
        fprintf(ttl,"\nGrand Total : %d\n",totl);
        fclose(ttl);
        details();
    }
}
else if(choice==5)
{
    system("cls");
    menuf();
}
else
{
    printf("Wrong Input! Re-enter THE Correct Option\n\n");
    nonvegetarian();
}

```

```

    }
}
void details()
{
    char name1[20];
    char name2[20];
    char phone[50];
    char address[40];
    printf(" Please Give Your Contact Details \n");
    printf(" First Name : ");
    scanf("%s",name1);
    printf(" Last Name : ");
    scanf("%s",name2);
    printf(" Phone : ");
    scanf("%s",phone);
    printf(" Seat Number : ");
    scanf("%s",address);
    printf("\n\n");
    printf("Your Entered Details Are ——>\n");
    FILE *cust;
    cust = fopen("order.txt","a");
    fprintf(cust," Order Placed By : %s %s\nPhone number : %s\n",name1,name2,phone);
    fclose(cust);
    printf(" First Name :%s\nLast Name :%s\nPhone :%s\nSeat Number :%s\n",name1,name2,phone,address);
    printf("\n\n\n");
    printf("
*****
Your Order Will
*****
.....HAPPY ORDERING.....\n");
    printf("
*****
Press any key to go back to main menu\n");
    getch();
    menuf();
}

```


}

5 Results

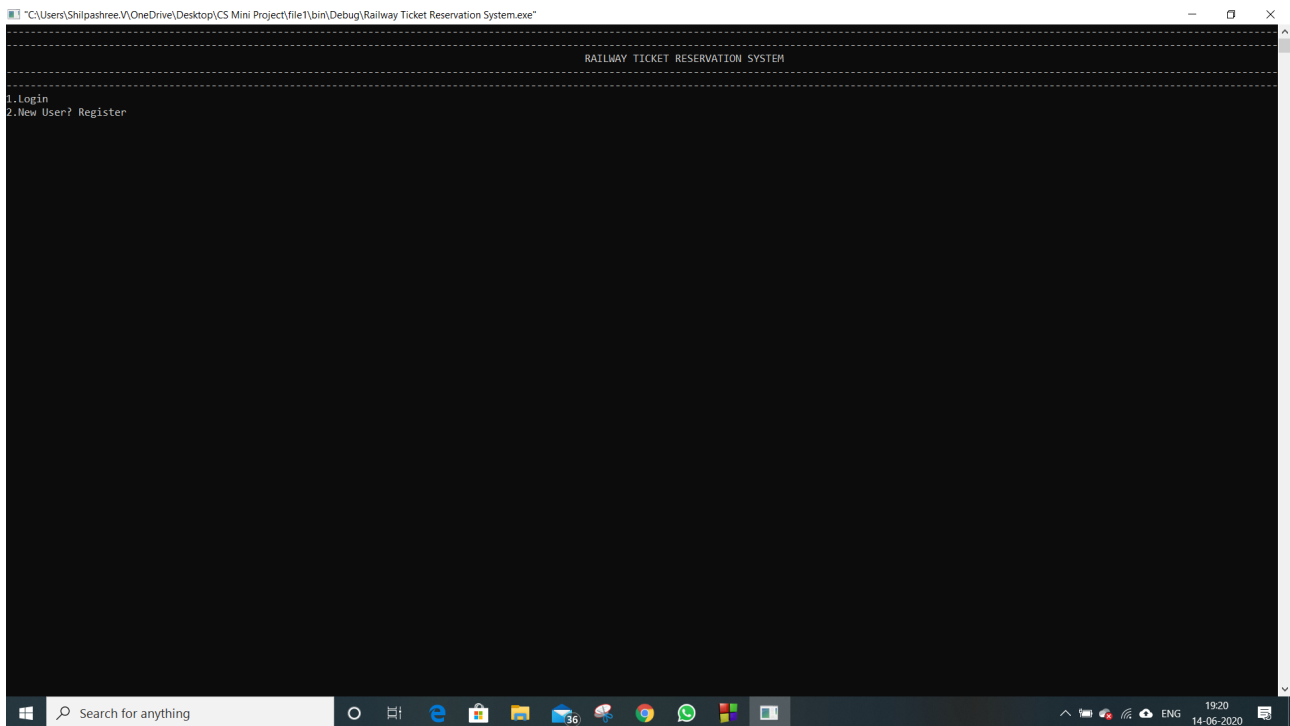


Figure 1: Login or register portal

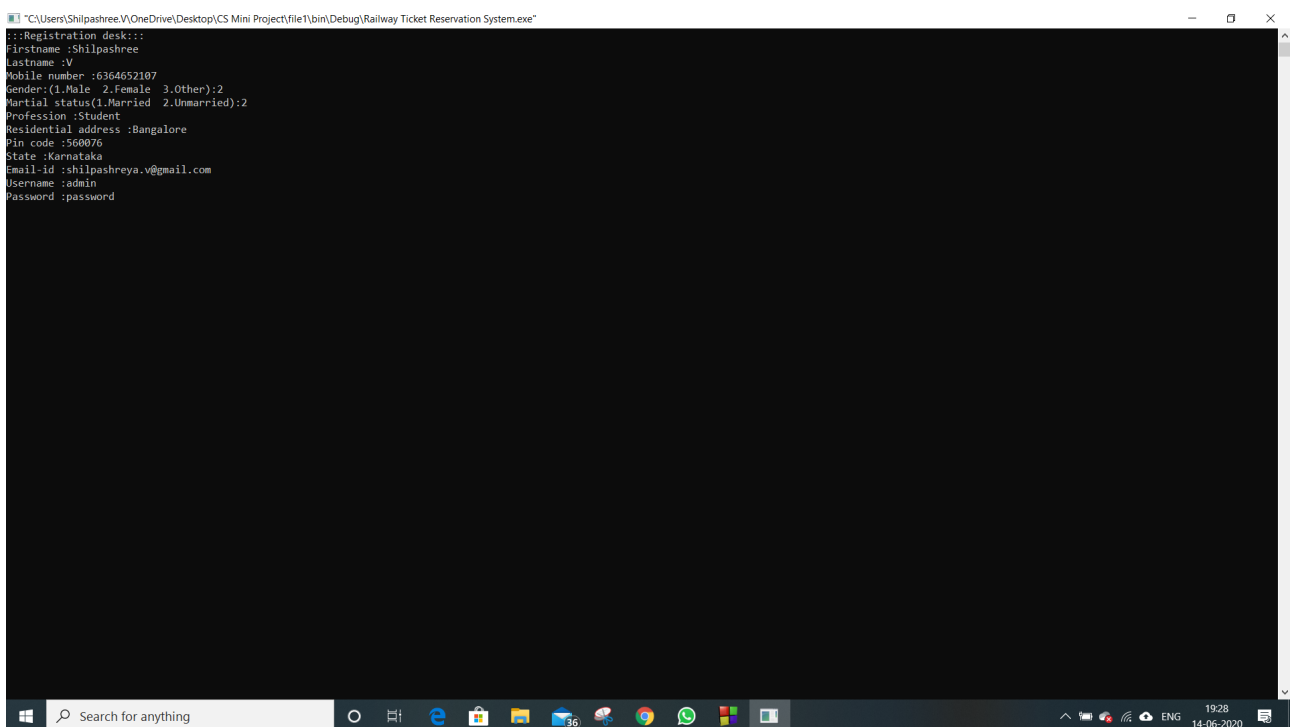


Figure 2: Registration desk

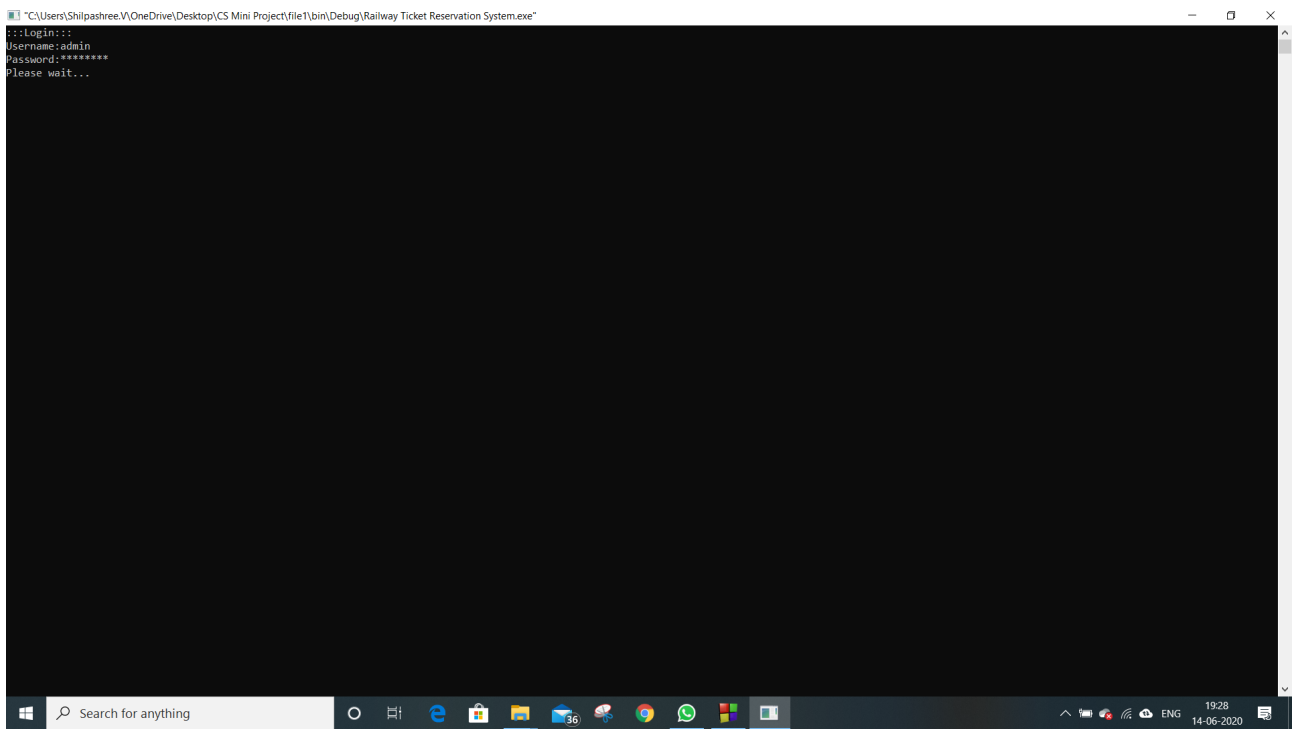


Figure 3: Login of user

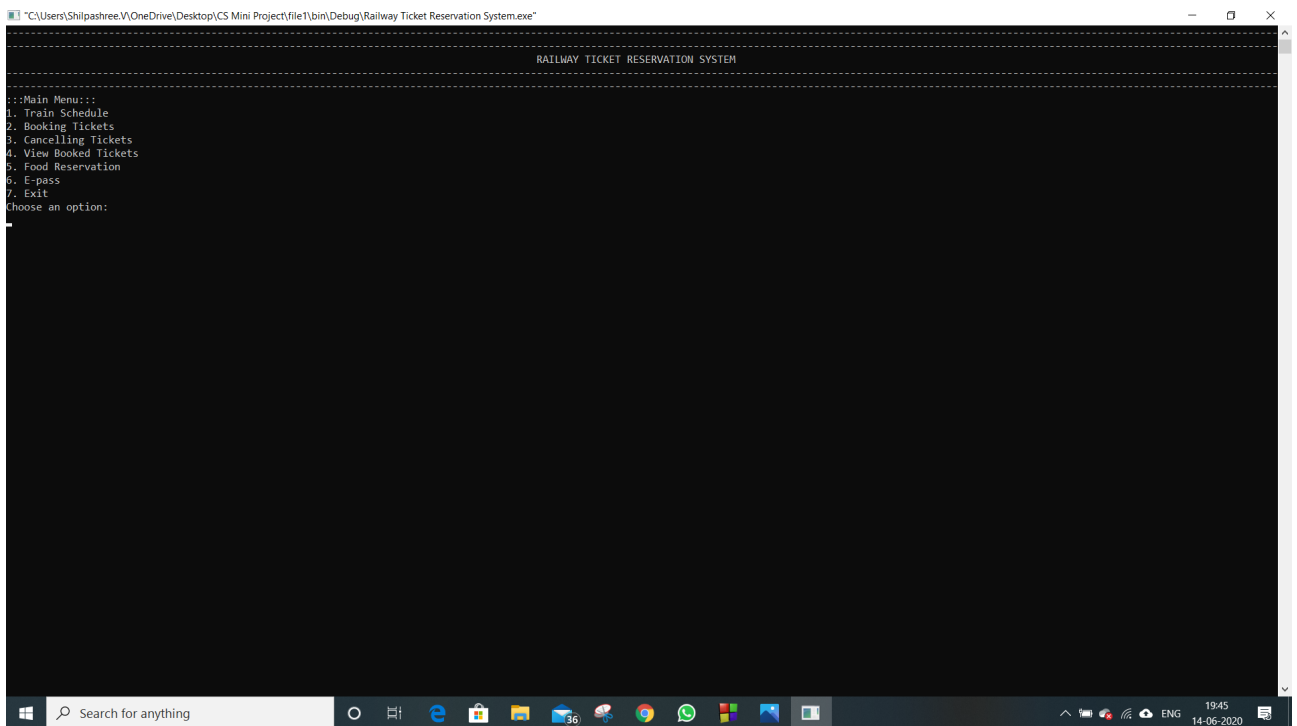


Figure 4: Main Menu

Train Schedule

Train no.	Train name	Source	Destination	Arrival time	Departure time
12267	AC Duronto Express	Mumbai	Ahmedabad	05:55	23:25
12426	Rajdhani Express	Jammu	New Delhi	05:05	19:40
12307	Super Fast Express	Howrah	Jodhpur	08:30	23:30
12506	North East Express	Delhi	Guwahati	16:50	06:45
22204	Rajdhani Express	Mumbai	New Delhi	08:35	16:35

Press any key to go back to main menu.

Figure 5: Train Schedule

Train Schedule

Train no.	Train name	Source	Destination	Arrival time	Departure time
12267	AC Duronto Express	Mumbai	Ahmedabad	05:55	23:25
12426	Rajdhani Express	Jammu	New Delhi	05:05	19:40
12307	Super Fast Express	Howrah	Jodhpur	08:30	23:30
12506	North East Express	Delhi	Guwahati	16:50	06:45
22204	Rajdhani Express	Mumbai	New Delhi	08:35	16:35

::Ticket Booking Counter::
 Enter train no.:12307
 Enter the details:
 Passenger name:Shilpa
 Age:18
 Gender(1.Male 2.Female 3.Other) :2
 Would you like to travel with female co-passengers?(y/n):n
 Phone number:6364652107
 Do you want to confirm your booking?(y/n)y
 Your ticket has been booked successfully!
 Wait till your ticket is being generated...

Figure 6: Booking Ticket

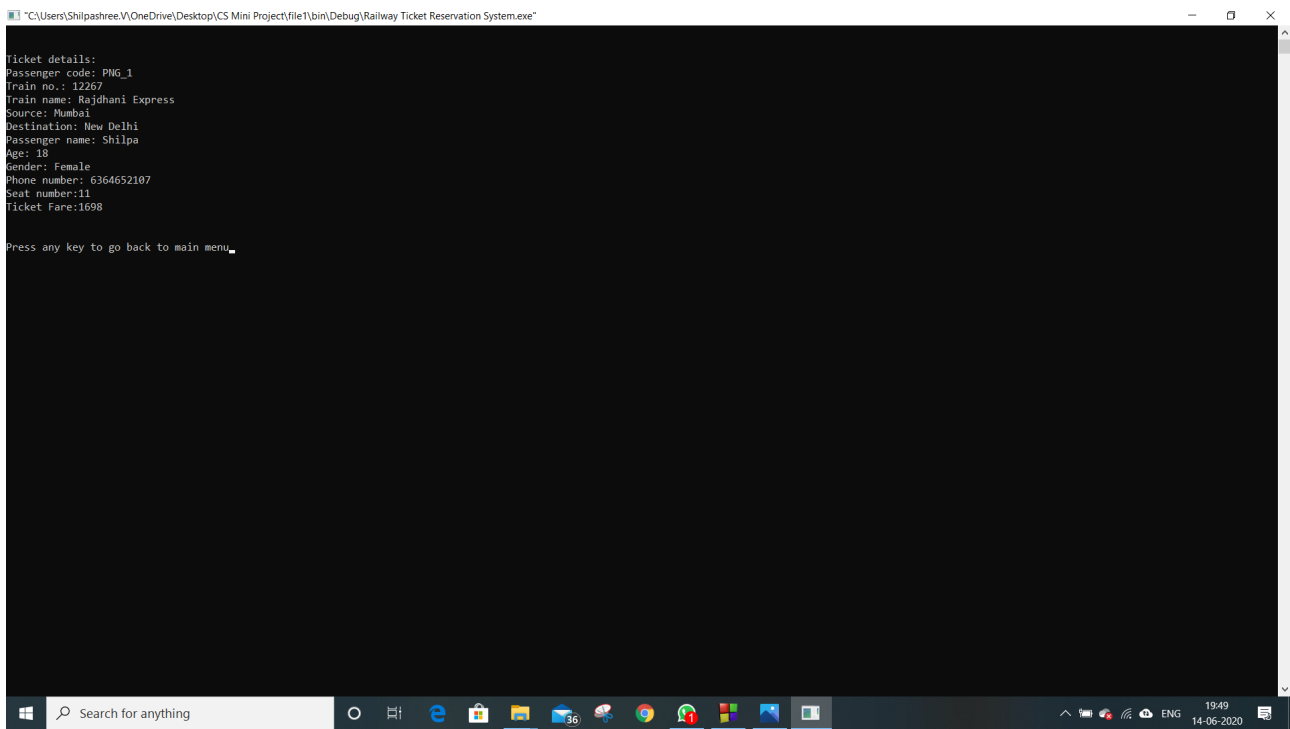


Figure 7: Display of Ticket Details

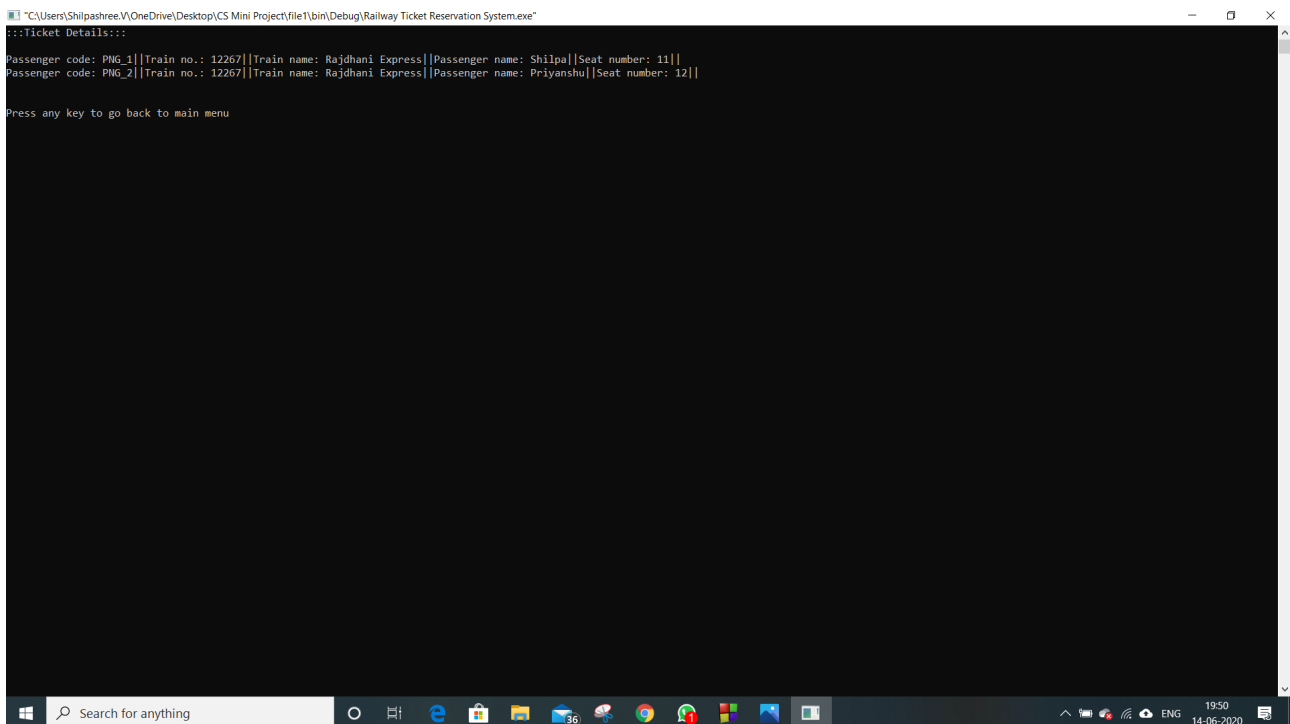


Figure 8: Details of all the tickets booked

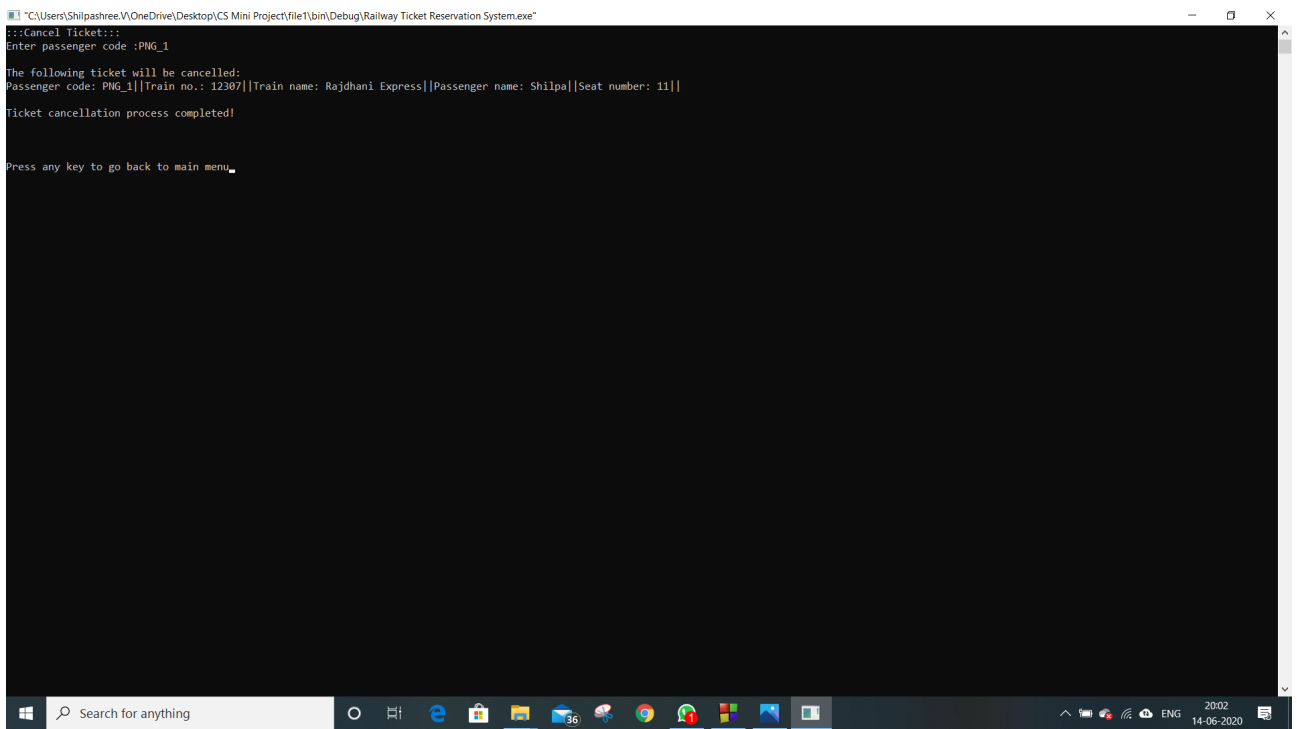


Figure 9: Cancelling Ticket

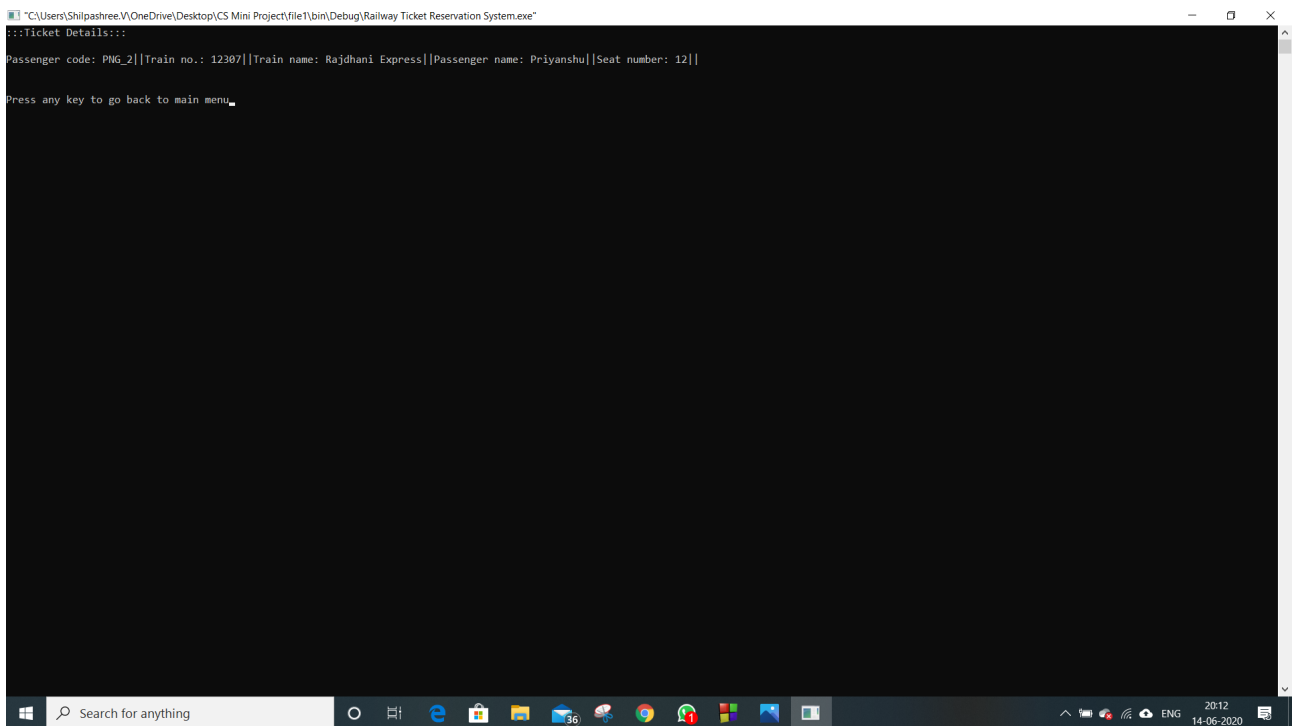


Figure 10: Details of all the tickets booked post cancellation of a ticket

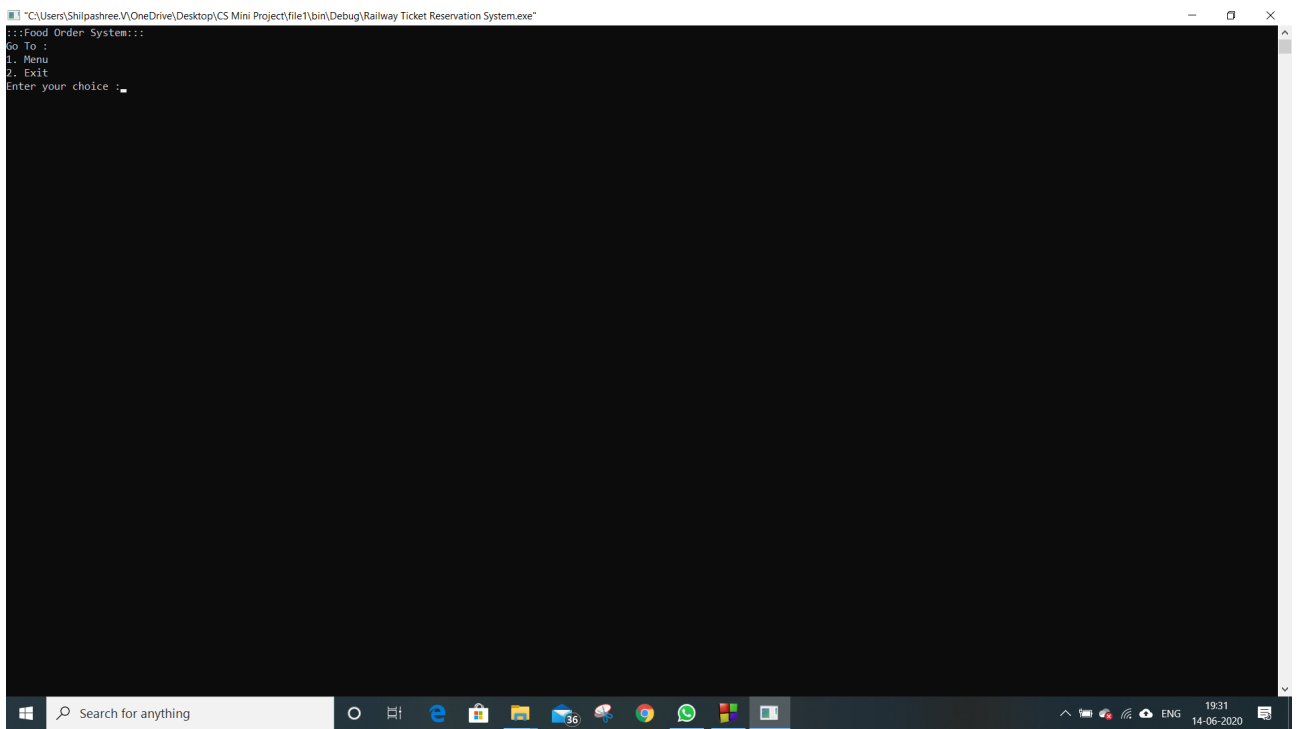


Figure 11: Food order system

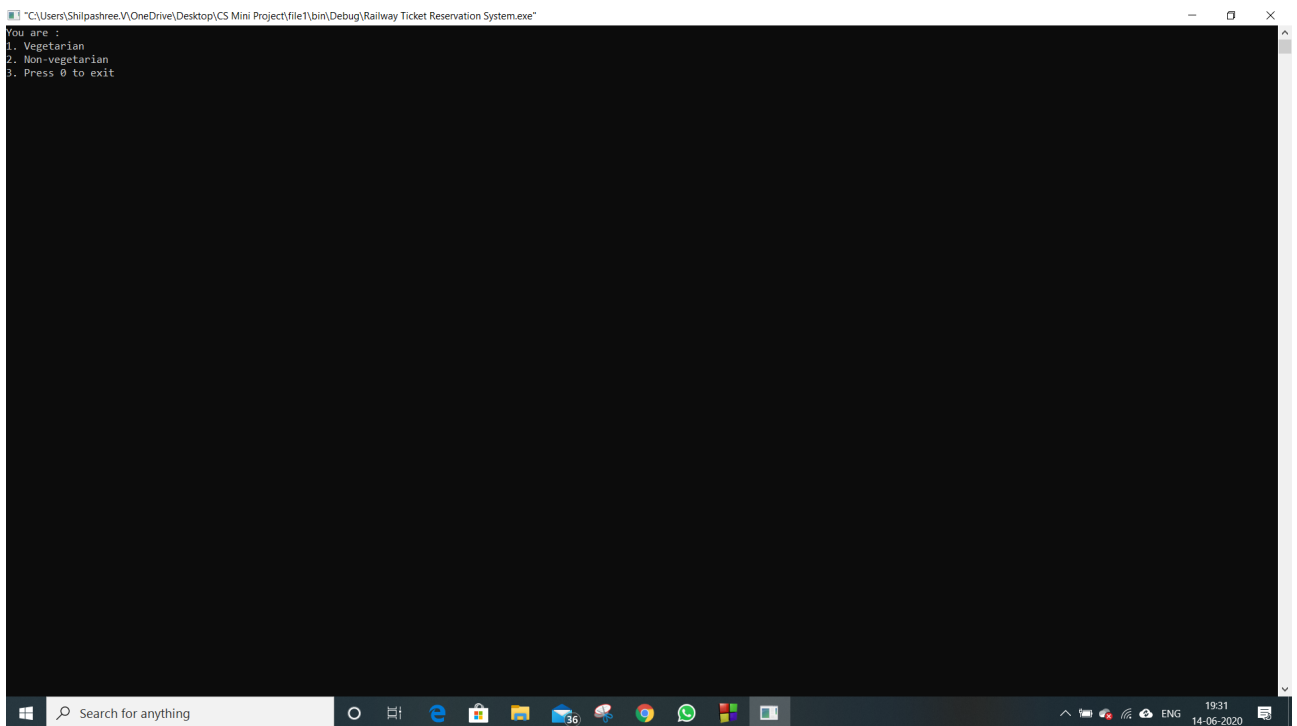


Figure 12: Choosing veg or non-veg

```
"C:\Users\Shilpashree.V\OneDrive\Desktop\CS Mini Project\file1\bin\Debug\Railway Ticket Reservation System.exe"
::Veg Menu::
1. Burger          40/-
2. Noodles          60/-
3. Sandwich         45/-
4. Beverages        35/-
5. Veg. Thaalii     150/-
-->Dal
-->Paneer
-->Chapati
-->Rice
-->Papad
Enter What You Want :1
Quantity :1
Press 1 To Order Again :
Press 2 To Get Your Total:
Enter Your Choice :2
Your Total Amount Is : Rs. 40.00
Please Give Your Contact Details
First Name : Shilpashree
Last Name : V
Phone : 6364652107
Seat Number : 1
Your Entered Details Are --->
First Name :Shilpashree
Last Name :V
Phone :6364652107
Seat Number :1
*****
Your Order Will Be At Your Seat In 30 minutes.
....HAPPY ORDERING....
*****
Press any key to go back to main menu
```

Figure 13: Ordering veg food

```
"C:\Users\Shilpashree.V\OneDrive\Desktop\CS Mini Project\file1\bin\Debug\Railway Ticket Reservation System.exe"
::Non Veg Menu::
1. Dry Chicken      150/-
2. Gravy Chicken    200/-
3. Chicken Biryani  110/-
4. Beverages        50/-
Enter Choice Number of the Item You Want :3
Quantity :1
Press 1 To Order Again :
Press 2 To Get Your Total:
Enter Your Choice :1
Enter Choice Number of the Item You Want :1
Quantity : 1
Press 1 To Order Again :
Press 2 To Get Your Total:
Enter Your Choice :2
Your Total Amount Is :225.00
Please Give Your Contact Details
First Name : Shilpashree
Last Name : V
Phone : 6364652107
Seat Number : 1
Your Entered Details Are --->
First Name :Shilpashree
Last Name :V
Phone :6364652107
Seat Number :1
*****
Your Order Will Be At Your Seat In 30 minutes.
....HAPPY ORDERING....
*****
Press any key to go back to main menu
```

Figure 14: Ordering non-veg food

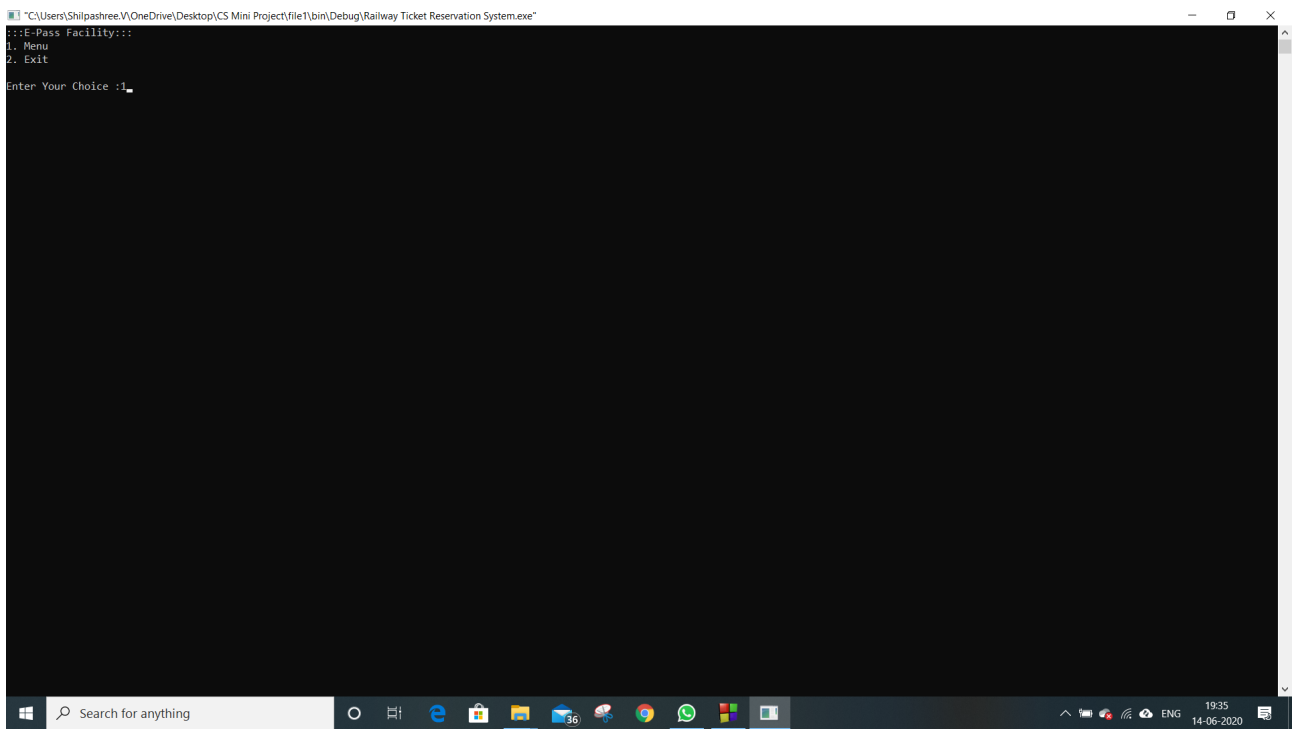


Figure 15: E-pass facility

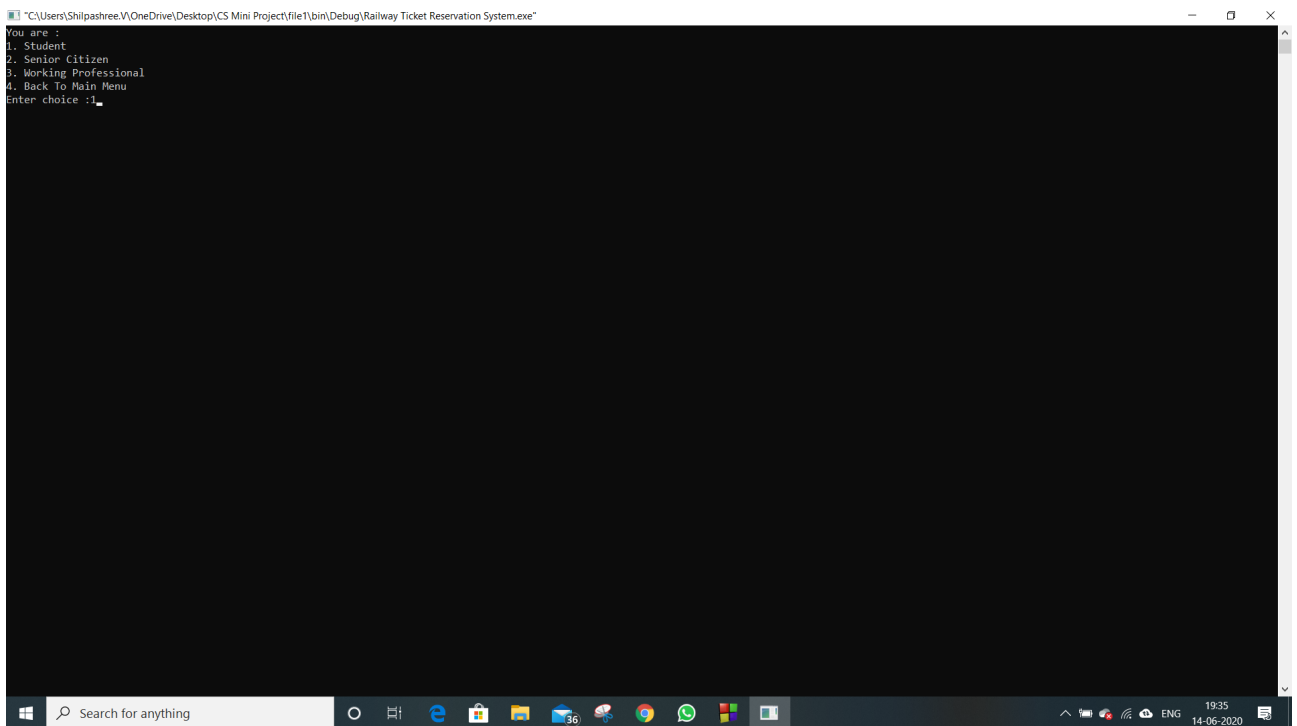


Figure 16: Choice of profession/age

```
"C:\Users\Shilpashree.V\OneDrive\Desktop\CS Mini Project\file1\bin\Debug\Railway Ticket Reservation System.exe"
E-Pass :
First Name :Shilpa
Last Name :V
Phone :6364652107
Age :17
Address :Bangalore
School :Outreach

Press any key to go back to main menu
```

Figure 17: E-pass booked

```
"C:\Users\Shilpashree.V\OneDrive\Desktop\CS Mini Project\file1\bin\Debug\Railway Ticket Reservation System.exe"
RAILWAY TICKET RESERVATION SYSTEM

::Main Menu::
1. Train Schedule
2. Booking Tickets
3. Cancelling Tickets
4. View Booked Tickets
5. Food Reservation
6. E-pass
7. Exit
Choose an option: 7

Process returned 0 (0x0)   execution time : 71.919 s
Press any key to continue.
```

Figure 18: Exit from program

6 References:

1. <https://youtu.be/3P4UQqyqXiM>

**** END ****