Vasantiben & Chandubhai Patel English School

COMPUTER-SCIENCE PROJECT WORK

Academic Year 2018 –2019

PROJECT MADE BY

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AIM

C++ Project On Railway Ticket Booking Services

PURPOSE

Electronically handling of trains's record to enhance the accuracy, flexibility, Reliability and to remove the human's error. To provide accurate information about the addition, deletion and modified records. To provide, efficient, accurate, reliable, fast, and robust structure that can handle any number of passenger's transactions.

INTRODUCTION

This project is based on railway reservation system. Basically concerned with the reservation by user and admin mode of railway services. The need of this system arouse because as is the known fact that India has the largest railway network in the whole world and it is not possible to handle such a large system manually. By computerizing it became possible to overcome the limitations and make the system operations more efficient. The complexity in handling data and 1 records of such a vast system got reduced and became easier by computerizing the system.

Being more specific, this online railway reservation system can perform the basic functions like user mode and admin mode. The account contains comprehensive information of the user entered during the registration and allows the user to access account to enquire about trains and train schedule, seat availability and make afresh reservations. The Admin will be able to update user account details & train details. This includes adding and updating of train, station, train routes and also managing the user id's and their passwords.

WORKING OF THE PROGRAM

This program has 2 Modes as follows:

1) ADMIN MODE

Which uses "password" as this modes password.

2) USER MODE

This mode is only accessible by the users which are allotted user ID's and password.

The user ID's and its Passwords are as follows:

SR.NO.	USER ID's	PASSWORDS
1	Madhuri	password
2	Hitesh	password
3	Manish	password
4	Manarth	password
5	Divyam	password

All needed files and data is already given in the CD(Attached at last in the file).

CODING OF THE PROGRAM

C++ CODING OF THE PROGRAM

```
#include<stdio.h>
/*
 Defines types and macros needed for the Standard I/O Package
 defined in Kernighan and Ritchie and extended under UNIX
 System V. Defines the standard I/O predefined streams stdin,
 stdout, stdprn, and stderr, and declares stream-level I/O
 routines.
*/
#include<conio.h>
 Declares various functions used in calling the DOS console
 I/O routines.
*/
#include<stdlib.h>
/*
 Declares several commonly used routines: conversion
 routines, search/sort routines, and other miscellany.
#include<string.h>
```

```
Declares several string- and memory-manipulation routines.
*/
#include<iostream.h>
/*
 Declares the basic C++ (version 2.0) streams (I/O) routines.
*/
#include<constrea.h>
/*
 It allows you to create output streams that write to specified windows on
 the screen, in specified colors, and at specific locations.
*/
#include<time.h>
/*
 Defines a structure filled in by the time-conversion
 routines, and a type used by other time routines; also
 provides prototypes for these routines.
*/
#include<iomanip.h>
/*
 Declares the C++ streams I/O manipulators and contains
 macros for creating parameterized manipulators.
*/
#include<fstream.h>
5
```

```
/*
```

```
Declares the C++ stream classes that support file input and
 output.
*/
char f[10]="f";
char s[10]="s";
int addr,ad,flag,f1,d,m,i,amt;
float tamt;
//class login defined
class login
  public:
  char id[100];
  char pass[100];
  char *password;
//function to get User IDs and its passwords.
  void getid()
  {
     cout<<"Enter your id:";</pre>
     gets(id);
     password=getpass("Enter the password:");
     strcpy(pass,password);
//function to display id and password when needed.
  void displayid()
  {
6
```

```
cout<<"Id:";
     puts(id);
     cout<<"Password:";
     puts(pass);
};
//class detail defined
class detail
  public:
  int tno;
  char tname[100];
  char bp[100];
  char dest[100];
  int c1,c1fare;
  int c2,c2fare;
  int d,m,y;
//function to get details for reservation of seats
  void getdetail()
  {
     cout<<"Enter the details as follows\n";
     cout<<"Train no:";
     cin>>tno;
     cout<<"Train name:";
     gets(tname);
     cout<<"Boarding point:";</pre>
     gets(bp);
     cout<<"Destination pt:";</pre>
     gets(dest);
     cout<<"No of seats in first class & fare per ticket:";</pre>
     cin>>c1>>c1fare;
```

```
cout<<"No of seats in second class & fare per ticket:";</pre>
     cin>>c2>>c2fare;
     cout<<"Date of travel:";
     cin>>d>>m>>y;
//function to display details of th seats reserved by user
  void displaydetail()
  {
     cout<<tno<<" \t"<<tname<<" \t"<<br/>t"<<dest<<"\t";
     cout<<c1<<" \t"<<c1fare<<" \t"<<c2fare<<" \t";
     cout << d << "-" << m << "-" << y << " \setminus t " << endl;
  }
};
//class reservation defined
class reser
  public:
  int pnr;
  int tno;
  char tname[100];
  char bp[10];
  char dest[100];
  char pname[10][100];
  int age[20];
  char clas[10];
  int nosr;
  int i;
  int d,m,y;
  int con;
  float amc;
//function to get details of train and seats required for reservation.
```

```
void getresdet()
     cout<<"Enter the details as follows\n";
     cout<<"Train no:";
     cin>>tno;
     cout<<"Train name:";
     gets(tname);
     cout<<"Boarding point:";</pre>
     gets(bp);
     cout<<"Destination pt:";</pre>
     gets(dest);
     cout<<"No of seats required:";</pre>
     cin>>nosr;
     for(i=0;i < nosr;i++)
       cout<<"Passenger name:";</pre>
       gets(pname[i]);
       cout<<"Passenger age:";</pre>
       cin>>age[i];
     }
     cout<<"Enter the class f-first class s-second class:";
     gets(clas);
     cout<<"Date of travel:";
     cin>>d>>m>>y;
     cout<<"Enter the concession category\n";</pre>
     cout<<"1.Military\n2.Senior citizen\n3.None\n";</pre>
     cin>>con;
     cout<<".....END OF GETTING DETAILS......\n";
  }
//function to display the details of the seats booked by any user when needed.
     void displayresdet()
```

```
cout<<"....\n";
    cout<<".....\n";
    cout<<"Pnr no:"<<pnr;
    cout<<"\nTrain no:"<<tno;
    cout<<"\nTrain name:";
    puts(tname);
    cout<<"Boarding point:";</pre>
    puts(bp);
    cout<<"Destination pt:";</pre>
    puts(dest);
    cout<<"No of seats reserved:"<<nosr;</pre>
    for(i=0;i < nosr;i++)
      cout<<"Passenger name:";</pre>
      puts(pname[i]);
      cout << "Passenger age: " << age[i];
    }
    cout<<"\nYour class:";puts(clas);</pre>
    cout << "\nDate of reservation: "<< d << "-" << m << "-" << y;
    cout<<"\nYour concession category:"<<con;</pre>
    cout<<"\nYou must pay:"<<amc<<endl;
    cout<<".....END OF RESERVATION......\n";
    }
//display passengers details when asked in program.
  void displaypass()
    cout<<"\n\nPnr no:"<<pnr;</pre>
    cout<<"\nTrain no:"<<tno;
```

```
cout<<"\nTrain name:";
     puts(tname);
     cout<<"Your Seat Class:";</pre>
     puts(clas);
     cout << "Date\ of\ Reservation: "<< d << "-" << m << "-" << y;
     cout<<"\nNo of seats reserved:"<<nosr;
     for(i=0;i < nosr;i++)
        cout<<"\nPassenger name:";</pre>
       puts(pname[i]);
       cout<<"Passenger age:"<<age[i];</pre>
       getch();
     }
     getch();
void manage();
void user();
void database();
void res();
void reserve();
void displaypassdetail();
void enquiry();
//Main of the program
void main()
     clrscr();
     constream cout;
     cout<<setclr(2);
     cout << "\n\n\n\n\n\n\n\n'
```

};

```
| | | \n"
         | | | `' | |-- \n"
                     getch();
}
{
 clrscr();
 constream cout;
 cout<<setclr(2);
 cout << "\n\n\n\n\n\n\n"
                                 \n "
   11
                            | \n "
                   11
                         | |
                             \n "
   11
                         | |____| \n"
   11
                   11
                              \n "
   11
                     \n "
                    getch();
}
 clrscr();
 constream cout;
 cout<<setclr(2);
 cout << "\n\n\n\n\n\n\n"
   "
                                     \n "
                | \cdot |
                        | \cdot |
                           | | ` '| \n "
             | | |
                            | | ` ' | \n "
```

```
|` | || \n"
        getch();
 clrscr();
 constream cout;
 cout << setclr(4);
 cout<<"\n\n\n\n\n\n\n\nTHIS PROGRAM IS MADE (CODED) BY :\n\n"
                   1)
                           n''
                    NAME: MANARTH PATEL\n"
                    ROLL NO:
                              n''
                   2)
                           n''
                    NAME: DIVYAM SINGH \n"
                    ROLL NO:
                             n'';
 getch();
}
 constream cout;
 cout << setclr(7);
clrscr();
int ch;
cout<<"......WELCOME TO RAILWAY RESERVATION SYSTEM.......\n";
do
 cout << "1. Admin mode \n2. User mode \n3. Exit \n";
```

```
cout<<"Enter your choice:";</pre>
    cin>>ch;
     cout<<endl;
     switch(ch)
       case 1:
         database();
       break;
       case 2:
         user();
       break;
       case 3:
         exit(0);
    }
  while(ch<=3);
  getch();
 function that checks admins password if enetered correct than allows to
  use program as by admin mode if entered incorrect than asked to enter correct
  password or ask to use program as user mode if user id and password exists.
void database()
  char *password;
  char *pass="password";
  password=getpass("Enter the admininistrator password:");
  detail a;
  fstream f;
  int ch;
```

/*

```
char c;
  if(strcmp(pass,password)!=0)
  {
    cout<<"Enter the password correctly \n";</pre>
    cout<<"You are not permitted to logon admin mode\n";
    cout<<"Try to use program as user if user id and password is alloted to you\n";
    cout<<"If you don't have user id too then ask admin to add your id and
password\n";
    goto h;
  }
  if(strcmp(pass,password)==0)
    char c;
    do
       cout<<"\n.....ADMINISTRATOR MENU.....\n";
       cout<<"1.Create detail data base\n2.Add details\n";
       cout<<"3.Display details\n4.User management\n";</pre>
       cout<<"5.Display passenger details\n6.Return to main menu\n";
       cout<<"Enter your choice:";</pre>
       cin>>ch;
       cout<<endl;
       switch(ch)
         case 1:
            f.open("t.txt",ios::out | ios::binary);
            do
            {
              a.getdetail();
              f.write((char *) & a,sizeof(a));
              cout<<"Do you want to add one more record?\n";
              cout << "y-for Yes\nn-for No\n";
```

```
cin>>c;
  while(c=='y');
  f.close();
break;
case 2:
  f.open("t.txt",ios::in|ios::out|ios::binary|ios::app);
  a.getdetail();
  f.write((char *) & a,sizeof(a));
  f.close();
break;
case 3:
  cout<<"T.No\t T.Name\tB.P\tD.P \tF.C\tCost \tS.C\tCost \tD.O.T\n";
 cout<<"
                 n\n';
  f.open("t.txt",ios::in|ios::out|ios::binary|ios::app);
  f.seekg(0);
  while(f.read((char *) & a,sizeof(a)))
    a.displaydetail();
  }
  f.close();
break;
case 4:
  manage();
break;
case 5:
  displaypassdetail();
break;
```

```
while(ch<=5);
     f.close();
  }
  h:
/*function to revoke "void res()" when needed to reserve seats but once asks
either to continue booking or leave booking.*/
void reserve()
  int ch;
  do
     cout<<"1.Reserve\n2.Return to the main menu\n";
     cout<<"Enter your choice:";</pre>
     cin>>ch;
     cout<<endl;
     switch(ch)
       case 1:
          res();
       break;
     }
  while(ch==1);
  getch();
//function to calculate the final amount to be paid by user and then store all data in a
file named "p.txt".
void res()
  detail a;
  reser b;
17
```

```
fstream f1,f2;
time_t t;
f1.open("t.txt",ios::in|ios::out|ios::binary);
f2.open("p.txt",ios::in | ios::out | ios::binary | ios::app);
int ch;
b.getresdet();
while(f1.read((char *) &a,sizeof(a)))
{
  if(a.tno==b.tno)
     if(strcmp(b.clas,f)==0)
       if(a.c1 >= b.nosr)
          amt=a.c1fare;
          addr=f1.tellg();
          ad=sizeof(a.c1);
          f1.seekp(addr-(7*ad));
          a.c1=a.c1-b.nosr;
          f1.write((char *) & a.c1,sizeof(a.c1));
          if(b.con==1)
            cout<<"Concession category:MILITARY PERSONNEL\n";</pre>
            b.amc=b.nosr*((amt*50)/100);
          else if(b.con==2)
            cout<<"Concession category:SENIOR CITIZEN\n";</pre>
            b.amc=b.nosr*((amt*60)/100);
          else if(b.con==3)
```

```
cout<<"You cannot get any concession\n";
      b.amc=b.nosr*amt;
    srand((unsigned)time(&t));
    b.pnr=rand();
    f2.write((char *) & b,sizeof(b));
    b.displayresdet();
    cout<<"----\n";
    cout<<"-----Your ticket is reserved-----\n";
    cout<<"-----End of reservation menu-----\n";
  }
  else
    cout<<"*******Sorry req seats not available******\n";
  }
else if(strcmp(b.clas,s)==0)
  if(a.c2 >= b.nosr)
    amt=a.c2fare;
    addr=f1.tellg();
    ad=sizeof(a.c2);
    f1.seekp(addr-(5*ad));
    a.c2=a.c2-b.nosr;
    f1.write((char *) & a.c2,sizeof(a.c2));
    if(b.con==1)
    {
      cout<<"Concession category:MILITARY PRESONNEL\n";</pre>
      b.amc=b.nosr*((amt*50)/100);
```

```
else if(b.con==2)
         {
           cout<<"Concession category:SENIOR CITIZEN\n";</pre>
           b.amc=b.nosr*((amt*60)/100);
         else if(b.con==3)
           cout<<"You cannot get any concession\n";</pre>
           b.amc=b.nosr*amt;
         f2.write((char *) & b,sizeof(b));
         b.displayresdet();
         cout<<"----\n";
         cout<<"----Your ticket is reserved-----\n";
         cout<<"-----End of reservation-----\n";
      }
      else
         cout<<"******Sorry req no of seats not available******\n";
      }
    getch();
    goto h;
  }
  else
    flag=0;
if(flag==0)
```

```
cout<<"......Wrong train no......\n";
  cout<<".....Enter the train no from the data base.....\n";
  f1.close();
  f2.close();
  getch();
  h:
//function to display passngers details when needed and provokes object from function -
"void displaypass()"
void displaypassdetail()
  fstream f;
  reser b;
  f.open("p.txt",ios::in | ios::out | ios::binary);
  f.seekg(0);
  while(f.read((char *) & b,sizeof(b)))
    b.displaypass();
  f.close();
  getch();
//function to get the details of trains available for booking train seats.
void enquiry()
  cout << "T.No \t T.Name \t B.P \t D.P \t F.C \t Cost \t S.C \t Cost \t D.O.T \n";
  cout<<"
   n\n';
  fstream f;
  f.open("t.txt",ios::in|ios::out|ios::binary);
21
```

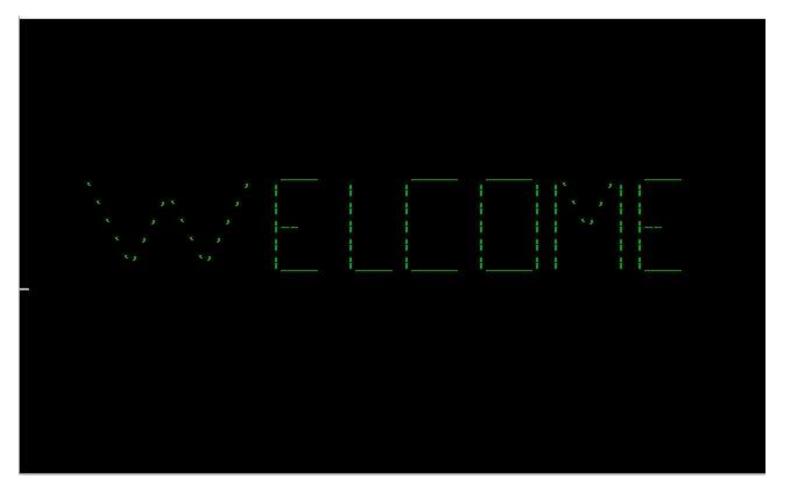
```
detail a;
  while(f.read((char *) & a,sizeof(a)))
    a.displaydetail();
  }
  getch();
}
//function to make user use user mode by entering user id and password provided.
void user()
  login a;
  int ch;
  cout<<"********WELCOME TO THE USER MENU**\n";
  char *password;
  fstream f;
  f.open("id.txt",ios::in|ios::out|ios::binary);
  char id[100];
  puts("Enter your id:");
  gets(id);
  password=getpass("Enter your password:");
  while(f.read((char *) & a,sizeof(a)))
   if((strcmp(a.id,id)==0)&&(strcmp(a.pass,password)==0))
    {
      do
       cout<<"1.Reserve\n2.Enquiry\n3.Return to the main menu\n";
       cout<<"Enter your choice:";</pre>
        cin>>ch;
```

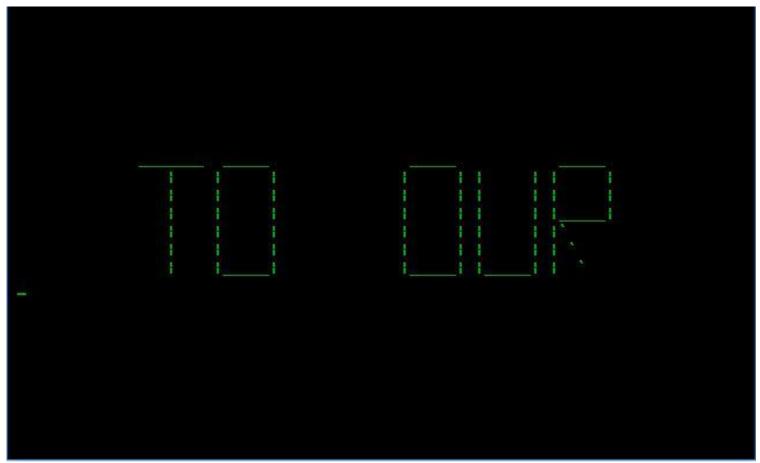
```
cout<<endl;
          switch(ch)
            case 1:
            reserve();
            break;
            case 2:
            enquiry();
            break;
       while(ch \le 2);
       goto j;
     else
       d=1;
  if(d==1)
     cout \le "Enter your user id and password correctly n";
  getch();
  j:
//function to manage user ids and password.
void manage()
  int ch;
  fstream f;
```

```
char c;
login a;
cout<<"......WELCOME TO THE USER MANAGEMENT MENU......\n";
do
{
  cout<<"1.Create id data base\n2.Add details\n";
  cout<<"3.Display details\n4.Return to the main menu\n";
  cout<<"Enter your choice:";</pre>
  cin>>ch;
  cout<<endl;
  switch(ch)
     case 1:
     f.open("id.txt",ios::out | ios::binary);
     do
       a.getid();
       f.write((char *) & a,sizeof(a));
       cout << "Do you want to add one more record \n";
       cout << "y-Yes \times nn-No =";
       cin>>c;
     }
     while(c=='y');
     f.close();
     break;
     case 2:
     f.open("id.txt",ios::in | ios::out | ios::binary | ios::app);
     a.getid();
     f.write((char *) & a,sizeof(a));
     f.close();
     break;
```

```
case 3:
    f.open("id.txt",ios::in|ios::out|ios::binary);
    f.seekg(0);
    while(f.read((char *) & a,sizeof(a)))
    {
        a.displayid();
    }
    f.close();
    break;
}
while(ch<=3);
getch();</pre>
```

SCREEN SHOTS OF THE OUTPUT WHEN USED BY ADMIN AND THEN USER's







THIS PROGRAM IS MADE (CODED) BY		
	NAME: ROLL NO:	MANABTH PATEL
	NAME: ROLL NO:	DIVYAM SINGH

WELCOME TO RAILWAY RESERVATION SYSTEM
^^^^^^
1.Admin mode
2.User mode
3.Exit Enter your choice:
and gate onotes

WELCOME TO RAILWAY RESERVATION SYSTEM	
^^^^^^	
1.Admin mode	
2.User mode	
3.Exit	
Enter your choice:1	
Enter the admininistrator password:	
Enter the password correctly	
You are not permitted to logon this mode	
1.Admin mode	
2.User mode	
3.Exit	
Enter your choice:	

```
^^^^^^MAIN MENU^
1.Admin mode
2.User mode
3.Exit
Enter your choice:1
Enter the admininistrator password:
Enter the password correctly
You are not permitted to logon this mode
1.Admin mode
2.User mode
3.Exit
Enter your choice:1
Enter the admininistrator password:
  ......ADMINISTRATOR MENU......
1.Create detail data base
2.Add details
3.Display details
4.User management
5.Display passenger details
6.Return to main menu
Enter your choice:
3.Exit
Enter your choice:1
Enter the administrator password:
.....ADMINISTRATOR MENU......
1.Create detail data base
2.Add details
3.Display details
4. User management
5.Display passenger details
6.Return to main menu
Enter your choice:1
Enter the details as follows
Train no:23
Train name:MP EXP
Boarding point:Mumbai
Destination pt:Patna
No of seats in first class & fare per ticket:500 1812
No of seats in second class & fare per ticket: 1000 1215
Date of travel:23 7 2019
Do you want to add one more record?
y-for Yes
n-for No
```

```
4.User management
5.Display passenger details
6. Return to main menu
Enter your choice:1
Enter the details as follows
Train no:23
Train name:MP EXP
Boarding point:Mumbai
Destination pt:Patna
No of seats in first class & fare per ticket:500 1812
No of seats in second class & fare per ticket:1000 1215
Date of travel:23 7 2019
Do you want to add one more record?
y-for Yes
n-for No
.....ADMINISTRATOR MENU......
1.Create detail data base
2.Add details
3.Display details
4. User management
5.Display passenger details
6. Return to main menu
Enter your choice:
..... ADMINISTRATOR MENU......
1.Create detail data base
2.Add details
3.Display details
User management
5.Display passenger details
6.Return to main menu
Enter your choice:2
Enter the details as follows
Train no:26
Train name:PM EXP
Boarding point:Patna
Destination pt:Mumbai
No of seats in first class & fare per ticket:500 1812
No of seats in second class & fare per ticket:1000 1215
Date of travel:26 7 2019
.....ADMINISTRATOR MENU......
1.Create detail data base
2.Add details
3.Display details
4.User management
5.Display passenger details
6.Return to main menu
Enter your choice:
```

1.Creat 2.Add o 3.Disp 4.User 5.Disp 6.Retw	ADMI te detail details lay detai manageme lay passe rn to mai your choi	l data ba ils ent enger det in menu	ise		• • •				
T.No	T.Name	: B.P	D.P	F.C	Cost	S.C	Cost	D.O.T	-58
23	MP EXP	M umbai	Patna	500	1812	1000	1215	23-7-2019	
26	PM EXP	Patna	Mumba i	500	1812	1000	1215	26-7-2019	
1.Creat 2.Add o 3.Disp 4.User 5.Disp 6.Retw	ADMI te detail details lay detai manageme lay passe rn to mai	l data ba ils ent enger det in menu	ise						
1.Creat 2.Add (3.Disp 4.User 5.Disp 6.Retu	PM EXPADMI te details details lay detai manageme lay passe rn to mai	l data ba ls ent enger det in menu	ise	500	1812	1000	1215	26-7-2019	
1.Creat 2.Add o 3.Disp 4.Retu	WELCOM te id dat details lay detai rn to the your choi	a base ls : main me		NAGEMEI	NT MENU				
Enter i	your id:H the passu want to	ord:	more rec	cord					

```
2.Add details
3.Display details
4.User management
5.Display passenger details
6.Return to main menu
Enter your choice:4
......WELCOME TO THE USER MANAGEMENT MENU......

    Create id data base

2.Add details
3.Display details
4.Return to the main menu
Enter your choice:1
Enter your id:Hitesh
Enter the password:
Do you want to add one more record
u-Yes
n-No
1.Create id data base
2.Add details
3.Display details
4.Return to the main menu
Enter your choice:
1.Create id data base
2.Add details
3.Display details
4.Return to the main menu
Enter your choice:1
Enter your id:Hitesh
Enter the password:
Do you want to add one more record
u-Yes
n-No
1.Create id data base
2.Add details
3.Display details
4.Return to the main menu
Enter your choice:2
Enter your id:Madhuri
Enter the password:
1.Create id data base
2.Add details
3.Display details
4.Return to the main menu
Enter uour choice:
```

```
n-No
1.Create id data base
2.Add details
3.Display details
4.Return to the main menu
Enter your choice:2
Enter your id:Madhuri
Enter the password:

    Create id data base

2.Add details
3.Display details
4.Return to the main menu
Enter your choice:3
Id:Hitesh
Password:password
Id:Madhuri
Password:password

    Create id data base

2.Add details
3.Display details
4.Return to the main menu
Enter your choice:_
Id:Hitesh
Password:password
Id:Madhuri
Password:password

    Create id data base

2.Add details
3.Display details
4.Return to the main menu
Enter your choice:4
..... ADMINISTRATOR MENU......
1.Create detail data base
2.Add details
3.Display details
4.User management
5.Display passenger details
6.Return to main menu
Enter your choice:6
^^^^^^
1.Admin mode
2.User mode
3.Exit
Enter your choice:_
```

```
.....ADMINISTRATOR MENU......
1.Create detail data base
2.Add details
3.Display details
4.User management
5.Display passenger details
6.Return to main menu
Enter your choice:6
1.Admin mode
2.User mode
3.Exit
Enter your choice:2
*************************************
*********WELCOME TO THE USER MENU**
***********************************
Enter your id:
Hitesh
Enter your password:
1.Reserve
2.Enguiry
3.Return to the main menu
Enter your choice:_
1.Admin mode
2.User mode
3.Exit
Enter your choice:2
**************
*********WELCOME TO THE USER MENU**
**************
Enter your id:
Hitesh
Enter your password:
1.Reserve
2. Enquiry
3.Return to the main menu
Enter your choice:2
T.No
       T.Name B.P
                          F.C
                   D.P
                                 Cost
                                        S.C
                                              Cost
                                                     D.O.T
23
      MP EXP
             Mumbai Patna
                                 1812
                                        1000
                                               1215
                                                     23-7-2019
                          500
26
      PM EXP
             Patna
                    Mumbai
                          500
                                 1812
                                        1000
                                               1215
                                                     26-7-2019
```

Enter your password: 1.Reserve 2.Enquiry 3.Return to the main menu Enter your choice:2 T.No T.Name B.P D.P F.C Cost S.C Cost D.O.T 23 MP EXP Mumba i Patna 500 1812 1000 1215 23-7-2019 26 PM EXP Patna Mumba i 500 1812 1000 1215 26-7-2019 1.Reserve 2. Enquiry 3.Return to the main menu Enter your choice:1 1.Reserve 2.Return to the main menu Enter your choice:1 Enter the details as follows Train no: 2.Enguiry 3.Return to the main menu Enter your choice:1 1.Reserve 2.Return to the main menu Enter your choice:1 Enter the details as follows Train no:23 Train name:MP EXP Boarding point:Mumbai Destination pt:Patna No of seats required:2 Passenger name:Hitesh Passenger age:32 Passenger name:Jatin Passenger age:30 Enter the class f-first class s-second class:f Date of travel:23 7 2019 Enter the concession category 1.Military 2.Senior citizen 3.None

3	This on or	mentals brown	****					
	END OF GE		IILS					
	nnot get any co							
Pnr no		****						
rnr no Train								
N. S.	name:MP EXP							
TO THE RESERVE OF THE PARTY OF								
	ng point: M umbai							
	ation pt:Patna seats reserved:	2Daccongov	nama ·	litech				
	ger age:32Passe			11 (C211				
	iger age:321asse iger age:30	nger name.	oacin					
the second second second	:lass:f							
IouI c	1055.1							
Date o	f reservation:2	3-7-2019						
100	oncession categ							
	st pay:3624							
	************	*****	(XXXXXX	******	: X			
	END OF RESER	VATION						
*****		*****	(XXXXXX	*******	*			
					 3.51515151515151			
	Your ti	cket is re	served-		57.57.			
	End	of reserva	tion me	ะทน	37			
You we	ıst pay:3624							
	(st pag.soci	********		~~~~~~~	*			
	END OF RESER							
	LIID OI IILOLI	*********			*			
	Your ti	cket is re	eserved.		1000000000 ==0			
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1.Rese		01 1000111						
	irn to the main	menu						
	your choice:2							
	J							
1.Rese	erve							
2.Enqu								
	irn to the main	menu						
	your choice:2							
	3							
T.No	T.Name B.P	D.P	F.C	Cost	S.C	Cost	D.O.T	
		\$400 AND OF	1011010 DHC341	2-66-102-164	200000 200000	A COST ELVA CO. TOTAL	Sec social territoria	353
23	MP EXP Mumba	i Patna	498	1812	1000	1215	23-7-2019	
26	PM EXP Patna	Mumbai	500	1812	1000	1215	26-7-2019	

23 MP EXP Mumbai Patna 498 1812 1000 1215 23-7-2019									
26 PM EXP Patna Mumbai 500 1812 1000 1215 26-7-2019									
1.Reserve 2.Enquiry 3.Return to the main menu Enter your choice:3 ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^									
1.Admin mode 2.User mode 3.Exit Enter your choice:2 ***********************************									
Madhuri Enter your password:									
1.Reserve 2.Enquiry 3.Return to the main menu Enter your choice:2									
T.No T.Name B.P D.P F.C Cost S.C Cost D.O.T	265								
23 MP EXP Mumbai Patna 498 1812 1000 1215 23-7-2019									
26 PM EXP Patna Mumbai 500 1812 1000 1215 26-7-2019									

Enter your password: 1.Reserve 2.Enguiry 3.Return to the main menu Enter your choice:2 S.C T.No T.Name B.P F.C Cost Cost D.P D.O.T 23 MP EXP Mumba i 498 1812 Patna 1000 1215 23-7-2019 26 PM EXP Patna Mumba i 500 1812 1000 1215 26-7-2019 1.Reserve 2.Enguiry 3.Return to the main menu Enter your choice:1 1.Reserve 2.Return to the main menu Enter your choice:1 Enter the details as follows Train no:_ 1.Reserve 2.Enquiry 3.Return to the main menu Enter your choice:1 1.Reserve 2.Return to the main menu Enter your choice:1 Enter the details as follows Train no:26 Train name: PM EXP Boarding point:Patna Destination pt:Mumbai No of seats required:1 Passenger name:Madhuri Passenger age:65 Enter the class f-first class s-second class:f Date of travel:26 7 2019 Enter the concession category 1.Military 2.Senior citizen 3.None

3.None 3	
END OF GETTING DETAILS	
You cannot get any concession	
Day 120E42	
Pnr no:20512 Train no:26	
Train no.20 Train name:PM EXP	
Boarding point:Patna Doctination at:Mushai	
Destination pt:Mumbai	
No of seats reserved:1Passenger name:Madhuri	
Passenger age:65 Your class:f	
TOUR Class:	
Date of reservation:26-7-2019	
Your concession category:3	
You must pay:1812	

END OF RESERVATION	

Your ticket is reserved	
End of reservation menu	
Your class:f	
D-tC	
Date of reservation:26-7-2019	
Your concession category:3 You must pay:1812	
Your concession category:3	
Your concession category:3 You must pay:1812	
Your concession category:3 You must pay:1812 ********	
Your concession category:3 You must pay:1812 ***********************************	
Your concession category:3 You must pay:1812 ***********************************	
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Your concession category:3 You must pay:1812 ***********************************	
Your concession category:3 You must pay:1812 ***********************************	
Your concession category:3 You must pay:1812 ***********************************	
Your concession category:3 You must pay:1812 ***********************************	

```
-End of reservation menu-
1.Reserve
2.Return to the main menu
Enter your choice:2
1.Reserve
2.Enguiru
3.Return to the main menu
Enter your choice:3
1.Admin mode
2.User mode
3.Exit
Enter your choice:1
Enter the admininistrator password:
......ADMINISTRATOR MENU......
1.Create detail data base
2.Add details
3.Display details
4.User management
5.Display passenger details
6.Return to main menu
Enter your choice:_
1.Create detail data base
2.Add details
3.Display details
4.User management
5.Display passenger details
6.Return to main menu
Enter your choice:
T.No
       T.Name B.P D.P
                            F.C
                                           S.C
                                    Cost
                                                   Cost
                                                          D.O.T
23
       MP EXP
              Mumba i
                     Patna
                             498
                                    1812
                                            1000
                                                   1215
                                                          23-7-2019
26
       PM EXP
                     Mumbai 499
                                    1812
                                                   1215
                                                          26-7-2019
              Patna
                                           1000
......ADMINISTRATOR MENU.....
1.Create detail data base
2.Add details
3.Display details
4.User management
5.Display passenger details
6.Return to main menu
Enter your choice:
```

23	MP EXI	Mumba i	Patna	498	1812	1000	1215	23-7-2019
26	PM EX	Patna	Mumba i	499	1812	1000	1215	26-7-2019

2.Add details

3.Display details

4.User management

5.Display passenger details

6.Return to main menu

Enter your choice:5

Pnr no:17208 Train no:23

Train name:MP EXP Your Seat Class:f

Date of Reservation:23-7-2019 No of seats reserved:2

Passenger name:Hitesh

Passenger age:32

23	MP	EXP	Mumba i	Patna	498	1812	1000	1215	23-7-2019
26	PM	EXP	Patna	Mumba i	499	1812	1000	1215	26-7-2019
		ADMI	NISTRATO	R MENU					

- 1.Create detail data base
- 2.Add details
- 3.Display details
- 4.User management
- 5.Display passenger details
- 6.Return to main menu

Enter your choice:5

Pnr no:17208 Train no:23

Train name:MP EXP Your Seat Class:f

Date of Reservation:23-7-2019 No of seats reserved:2

Passenger name:Hitesh

Passenger age:32 Passenger name:Jatin Passenger age:30_

```
5.Display passenger details
6.Return to main menu
Enter your choice:5
Pnr no:17208
Train no:23
Train name:MP EXP
Your Seat Class:f
Date of Reservation:23-7-2019
       No of seats reserved:2
               Passenger name:Hitesh
               Passenger age:32
               Passenger name: Jatin
               Passenger age:30
Pnr no:20512
Train no:26
Train name: PM EXP
Your Seat Class:f
Date of Reservation:26-7-2019
       No of seats reserved:1
               Passenger name: Madhuri
               Passenger age:65
               Passenger age:32
               Passenger name: Jatin
               Passenger age:30
Pnr no:20512
Train no:26
Train name:PM EXP
Your Seat Class:f
Date of Reservation:26-7-2019
       No of seats reserved:1
               Passenger name: Madhuri
               Passenger age:65.....ADMINISTRATOR MENU.....
1.Create detail data base
2.Add details
3.Display details
4.User management
5.Display passenger details
6.Return to main menu
Enter your choice:6
^^^^^^
1.Admin mode
2.User mode
3.Exit
Enter your choice:3_
```

CONCLUSION

- > The system effectively automated the functions involved in the processes being handled manually before.
- > The cost & benefit analysis shows that the system was quite successful in saving costs for the Admin & generate equivalently huge benefits.
- > The system is secure & scalable. The system design has been done keeping user-friendliness and efficiency in mind.

SCOPE OF THE PROJECT

Scope of this project is to replace the manual work of rilway management system with the new advanced computerized system. User does not need much training to use this software, as this software is very user friendly and easy to use. It replaces all the paper work also. In this software we can store thousands of records. It replaces all the calculation works also as it automatically calculate and print the bill. Some main advantages are:-

- → PNR Numbers are generated automatically by system itself(RANDOMIZED).
- → If any invalid entry done by the users which is nature of human being but checks by the machine so this software gives the error message to the users to indicate about the invalid entry at every point of program.

LIMITATIONS OF PROGRAM

- > Cancelation of seats is not being done by this program.
- ➤ To earase all available train details one must clear the file named "t.txt".
- ➤ To earase all user ID's and its Password's one must clear the file named "id.txt".
- > To earase all booked seats / reserved seats one must clear the file named "p.txt".
- ➤ After earasing the file data admin must make a new record of trains available and user ID's and its Passwords.

/*(THIS LIMITATIONS CAN BE ONLY REMOVED WHEN THE PROGRAM'S CODE IS STUDIED MORE AND WHEN THE CODDER OF THE PROGRAM EDITS AND ADD ANOTHER CODES AND MAKE IT PROGRAM WITHOUT LIMITATIONS)*/

BILBOGRAPHY

- C++ BOOK [Sumit Arora] (11th & 12th)
- C++ Online Guide(Google 'search engine tool')
- Computer Science Teacher(Hitesh Patel)