A Project Report on

**RAILWAY RESERVATION SYSTEM**

A Project Report Submitted To The Department of Computer Science Shrimanta Shankar Academy, Dispur For The Partial Fulfillment of AISSCE 2016-17 In Science Stream



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CERTIFICATE

TO WHOM IT MAY CONCERN

THIS IS TO CERTIFY THAT THE PROJECT “**RAILWAY RESERVATION SYSTEM**” IS SUBMITTED BY RAHUL BORDOLOI, A STUDENT OF CLASS XII, SCIENCE STREAM, SHRIMANTA SHANKAR ACADEMY, DISPUR FROM HIS ACTUAL KNOWLEDGE WHICH HE HAS GAINED WHILE PREPARING THE PROJECT UNDER MY SUPERVISION. HE HAS FULFILLED ALL THE CRITERIA AND HENCE COMPLETED THE PROJECT WITHIN THE PRESCRIBED TIME.

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SIGNATURE

TEACHER IN-CHARGE

ACKNOWLEDGEMENT

I TAKE THE OPPORTUNITY TO CONVEY MY HEARTFELT THANKS TO THE TEACHERS OF THE COMPUTER SCIENCE DEPARTMENT, MR PRADYUMNA MAHANTA AND MRS NIRMALI KHAUND BARUAH FOR THEIR SUGGESTIONS AND SUPPORT FOR SUCCESSFULLY DEVELOPING THE C++ PROGRAM WITH THE USE OF OBJECT ORIENTED TECHNOLOGY AND DATA FILES ON “RAILWAY RESERVATION SYSTEM”.

MY SINCERE THANKS ALSO GOES TO MY PARENTS WHO HELPED ME IN COMPLETION OF THE PROJECT BY PROVIDING ME WITH NECESSARY INFORMATION AND SUPPORT.

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Rahul Bordoloi

Roll No:

Class: XII Sc ; Sec: B

PROGRAM

#include<iostream.h>

#include<conio.h>

#include<fstream.h>

#include<process.h>

#include<dos.h>

#include<string.h>

#include<stdio.h>

int ch1,ch2;

void add();

void search();

void del();

void mod();

void menu();

class passenger

{

int p,p1;

float r;

long pin,pnno,mob;

char name[30],address[40],email[30],from[15],to[15],stand[20];

public:

void getdata()

{

cout<<"\n\nENTER YOUR NAME :";

gets(name);

cout<<"\nENTER YOUR ADDRESS :";

gets(address);

cout<<"\nENTER YOUR PIN NO. :";

cin>>pin;

cout<<"\nENTER YOUR MOBILE NO. :";

cin>>mob;

cout<<"\nENTER YOUR EMAIL ID :";

gets (email);

}

void putdata()

{

cout<<"\n\n\t\t\t PNR NO. :"<<pnno;

cout<<"\n\nNAME :"<<name;

cout<<"\t\t\t\tADDRESS :"<<address;

cout<<"\n\nPIN NO. :"<<pin;

cout<<"\t\t\t\tMOBILE NO. is :"<<mob;

cout<<"\n\nEMAIL ID :"<<email;

cout<<"\n\nFROM :"<<from<<"\t\t\t\t TO :"<<to;

cout<<"\n\nADULT PASSENGER :"<<p;

cout<<"\t\t\t\tCHILDREN PASSENGER :"<<p1;

cout<<"\n\n\t\t\t"<<stand;

cout<<"\n\n\t\t\tTOTAL FARE :"<<r;

}

void calculation();

void modify();

char \*getname()

{

return(name);

}

long getpnno()

{

return(pnno);

}

}d,d1;

void passenger::calculation()

{

if(ch1==1)

{

clrscr();

pnno=1092873;

strcpy(from,"GUWAHATI");

strcpy(to,"KOLKATA");

gotoxy(30,1);

cout<<"SARAIGHAT EXPRESS";

gotoxy(28,2);

cout<<".....................\n";

cout<<"\tGUWAHATI (12:45) PM - KOLKATA (5:10) AM, 2 DAYS\n";

cout<<"PRICE LIST\n";

cout<<"1. 3190/- 1.(A)\n";

cout<<"2. 1870/- 2.(A)\n";

cout<<"3. 1305/- 3.(A)\n";

cout<<"4. 500/- SL\n";

cout<<"\nNOTE:-CHILDREN'S FARE IS 50% ofADULT'S FARE ....";

cout<<"\n\nYOUR PNR NO.IS :"<<pnno;

cout<<"\n\nENTER THE NO. OF ADULT PASSENGER..\t";

cin>>p;

cout<<"\nENTER THE NO. OF CHILDREN PASSENGER..\t";

cin>>p1;

cout<<"\nSELECT A CLASS FROM THE ABOVE PRICE LIST (1/2/3/4):\t" ;

cin>>ch2;

if(ch2==1)

{

strcpy(stand,"1.(A) [FIRST CLASS]");

cout<<"\nYOU SELECTED THE 1.(A) [FIRST CLASS]";

r=(p\*3190+p1\*1595);

}

if(ch2==2)

{

strcpy(stand,"2.(A) [SECOND CLASS]");

cout<<"\nYOU SELECTED THE 2.(A) [SECOND CLASS]";

r=(p\*1870+p1\*935);

}

if(ch2==3)

{

strcpy(stand,"3.(A) [THIRD CLASS]");

cout<<"\nYOU SELECTED THE 3.(A) [THIRD CLASS]";

r=(p\*1305+p1\*652.5);

}

if(ch2==4)

{

strcpy(stand,"SLEEPER CLASS");

cout<<"\nYOU SELECTED THE SLEEPER CLASS";

r=(p\*500+p1\*250);

}

}

else

if(ch1==2)

{

clrscr();

pnno=8272552;

strcpy(from,"KOLKATA");

strcpy(to,"GUWAHATI");

gotoxy(30,1);

cout<<"GUWAHATI EXPRESS";

gotoxy(28,2);

cout<<"....................\n";

cout<<"\tKOLKATA (2:25) PM - GUWAHATI (7:55) AM, 2 DAYS\n";

cout<<"PRICE LIST\n";

cout<<"1. 2400/- 1.(A)\n";

cout<<"2. 1810/- 2.(A)\n";

cout<<"3. 1265/- 3.(A)\n";

cout<<"4. 485/- SL\n";

cout<<"\nNOTE:-CHILDREN'S FARE IS HALF OF THE ADULT'S FARE ....";

cout<<"\n\nYOUR PNR NO.IS :"<<pnno;

cout<<"\n\nENTER THE NO. OF ADULT PASSENGER..\t";

cin>>p;

cout<<"\nENTER THE NO. OF CHILDREN PASSENGER..\t";

cin>>p1;

cout<<"\nSELECT A CLASS FROM THE ABOVE PRICE LIST (1/2/3/4):\t" ;

cin>>ch2;

if(ch2==1)

{

strcpy(stand,"1.(A) [FIRST CLASS]");

cout<<"\nYOU SELECTED THE 1.(A) [FIRST CLASS]";

r=(p\*2400+p1\*1200);

}

if(ch2==2)

{

strcpy(stand,"2.(A) [SECOND CLASS]");

cout<<"\nYOU SELECTED THE 2.(A) [SECOND CLASS]";

r=(p\*1810+p1\*905);

}

if(ch2==3)

{

strcpy(stand,"3.(A) [THIRD CLASS]");

cout<<"\nYOU SELECTED THE 3.(A) [THIRD CLASS]";

r=(p\*1265+p1\*632.5);

}

if(ch2==4)

{

strcpy(stand,"SLEEPER CLASS");

cout<<"\nYOU SELECTED THE SLEEPER CASS";

r=(p\*485+p1\*242.5);

}

}

if(ch1==3)

{

clrscr();

pnno=7252441;

strcpy(from,"DELHI");

strcpy(to,"KOLKATA");

gotoxy(30,1);

cout<<"POORVA EXPRESS";

gotoxy(28,2);

cout<<"..............\n";

cout<<"\tDELHI (4:05) PM - KOLKATA (4:55) PM, 2 DAYS\n";

cout<<"PRICE LIST\n";

cout<<"1. 3935/- 1.(A)\n";

cout<<"2. 2295/- 2.(A)\n";

cout<<"3. 1585/- 3.(A)\n";

cout<<"4. 605/- SL\n";

cout<<"\nNOTE:-CHILDREN'S FARE IS HALF OF THE ADULT'S FARE ....";

cout<<"\n\nYOUR PNR NO.IS :"<<pnno;

cout<<"\n\nENTER THE NO. OF ADULT PASSENGER..\t";

cin>>p;

cout<<"\nENTER THE NO. OF CHILDREN PASSENGER..\t";

cin>>p1;

cout<<"\nSELECT A CLASS FROM THE ABOVE PRICE LIST (1/2/3/4):\t" ;

cin>>ch2;

if(ch2==1)

{

strcpy(stand,"1.(A) [FIRST CLASS]");

cout<<"\nYOU SELECTED THE 1.(A) [FIRST CLASS]";

r=(p\*3935+p1\*1967.5);

}

if(ch2==2)

{

strcpy(stand,"2.(A) [SECOND CLASS]");

cout<<"\nYOU SELECTED THE 2.(A) [SECOND CLASS]";

r=(p\*2295+p1\*1147.5);

}

if(ch2==3)

{

strcpy(stand,"3.(A) [THIRD CLASS]");

cout<<"\nYOU SELECTED THE 3.(A) [THIRD CLASS]";

r=(p\*1585+p1\*792.5);

}

if(ch2==4)

{

strcpy(stand,"SLEEPER CLASS");

cout<<"\nYOU SELECTED THE SLEEPER CLASS";

r=(p\*605+p1\*302.5);

}

}

if(ch1==4)

{

clrscr();

pnno=5874936;

strcpy(from,"KOLKATA");

strcpy(to,"DELHI");

gotoxy(30,1);

cout<<"KOLKATA RAJDHANI";

gotoxy(28,2);

cout<<"................\n";

cout<<"\tKOLKATA (4:45) PM - DELHI(10:00) AM, 2 DAYS\n";

cout<<"PRICE LIST\n";

cout<<"1. 4815/- 1.(A)\n";

cout<<"2. 2900/- 2.(A)\n";

cout<<"3. 2110/- 3.(A)\n";

cout<<"4. 810/- SL\n";

cout<<"\nNOTE:-CHILDREN'S FARE IS HALF OF THE ADULT'S FARE ....";

cout<<"\n\nYOUR PNR NO.IS :"<<pnno;

cout<<"\n\nENTER THE NO. OF ADULT PASSENGER..\t";

cin>>p;

cout<<"\nENTER THE NO. OF CHILDREN PASSENGER..\t";

cin>>p1;

cout<<"\nSELECT A CLASS FROM THE ABOVE PRICE LIST (1/2/3/4):\t" ;

cin>>ch2;

if(ch2==1)

{

strcpy(stand,"1.(A) [FIRST CLASS]");

cout<<"\nYOU SELECTED THE 1.(A) [FIRST CLASS]";

r=(p\*4815+p1\*2407.5);

}

if(ch2==2)

{

strcpy(stand,"2.(A) [SECOND CLASS]");

cout<<"\nYOU SELECTED THE 2.(A) [SECOND CLASS]";

r=(p\*2900+p1\*1450);

}

if(ch2==3)

{

strcpy(stand,"3.(A) [THIRD CLASS]");

cout<<"\nYOU SELECTED THE 3.(A) [THIRD CLASS]";

r=(p\*2110+p1\*1055);

}

if(ch2==4)

{

strcpy(stand,"SLEEPER CLASS");

cout<<"\nYOU SELECTED THE SLEEPER CLASS";

r=(p\*810+p1\*405);

}

}

else

if(ch1==5)

{

clrscr();

pnno=7298346;

strcpy(from,"GUWAHATI");

strcpy(to,"DELHI");

gotoxy(30,1);

cout<<"DBRT RAJDHANI E";

gotoxy(28,2);

cout<<"................\n";

cout<<"\tGUWAHATI (7:05) AM - NEW DELHI (5:10) AM, 2 DAYS\n";

cout<<"PRICE LIST\n";

cout<<"1. 5845/- 1.(A)\n";

cout<<"2. 3535/- 2.(A)\n";

cout<<"3. 2610/- 3.(A)\n";

cout<<"4. 1000/- SL\n";

cout<<"\nNOTE:-CHILDREN'S FARE IS HALF OF THE ADULT'S FARE ....";

cout<<"\n\nYOUR PNR NO.IS :"<<pnno;

cout<<"\n\nENTER THE NO. OF ADULT PASSENGER..\t";

cin>>p;

cout<<"\nENTER THE NO. OF CHILDREN PASSENGER..\t";

cin>>p1;

cout<<"\nSELECT A CLASS FROM THE ABOVE PRICE LIST (1/2/3/4):\t" ;

cin>>ch2;

if(ch2==1)

{

strcpy(stand,"1.(A) [FIRST CLASS]");

cout<<"\nYOU SELECTED THE 1.(A) [FIRST CLASS]";

r=(p\*5845+p1\*2922.5);

}

if(ch2==2)

{

strcpy(stand,"2.(A) [SECOND CLASS]");

cout<<"\nYOU SELECTED THE 2.(A) [SECOND CLASS]";

r=(p\*3535+p1\*1767.5);

}

if(ch2==3)

{

strcpy(stand,"3.(A) [THIRD CLASS]");

cout<<"\nYOU SELECTED THE 3.(A) [THIRD CLASS]";

r=(p\*2610+p1\*1305);

}

if(ch2==4)

{

strcpy(stand,"SLEEPER CLASS");

cout<<"\nYOU SELECTED THE SLEEPER CLASS";

r=(p\*1000+p1\*500);

}

}

else

if(ch1==6)

{

clrscr();

pnno=8475937;

strcpy(from,"DELHI");

strcpy(to,"GUWAHATI");

gotoxy(30,1);

cout<<"DBRT RAJDHANI ";

gotoxy(28,2);

cout<<".................\n";

cout<<"\tNEW DELHI (12:55) PM - GUWAHATI (5:20) AM, 2 DAYS\n";

cout<<"PRICE LIST\n";

cout<<"1. 5848/- 1.(A)\n";

cout<<"2. 3535/- 2.(A)\n";

cout<<"3. 2510/- 3.(A)\n";

cout<<"4. 950/- SL\n";

cout<<"\nNOTE:-CHILDREN'S FARE IS HALF OF THE ADULT'S FARE ....";

cout<<"\n\nYOUR PNR NO.IS :"<<pnno;

cout<<"\n\nENTER THE NO. OF ADULT PASSENGER..\t";

cin>>p;

cout<<"\nENTER THE NO. OF CHILDREN PASSENGER..\t";

cin>>p1;

cout<<"\nSELECT A CLASS FROM THE ABOVE PRICE LIST (1/2/3/4):\t" ;

cin>>ch2;

if(ch2==1)

{

strcpy(stand,"1.(A) [FIRST CLASS]");

cout<<"\nYOU SELECTED THE 1.(A) [FIRST CLASS]";

r=(p\*5848+p1\*2924);

}

if(ch2==2)

{

strcpy(stand,"2.(A) [SECOND CLASS]");

cout<<"\nYOU SELECTED THE 2.(A) [SECOND CLASS]";

r=(p\*3535+p1\*1767.5);

}

if(ch2==3)

{

strcpy(stand,"3.(A) [THIRD CLASS]");

cout<<"\nYOU SELECTED THE 3.(A) [THIRD CLASS]";

r=(p\*2510+p1\*1255);

}

if(ch2==4)

{

strcpy(stand,"SLEEPER CLASS");

cout<<"\nYOU SELECTED THE SLEEPER CLASS";

r=(p\*950+p1\*475);

}

}

else

if(ch1==7)

{

clrscr();

pnno=2037474;

strcpy(from,"GUWAHATI");

strcpy(to,"MUMBAI");

gotoxy(30,1);

cout<<"GUWAHATI LTT EXPRESS";

gotoxy(28,2);

cout<<"........................\n";

cout<<"\tGUWAHATI (4:45) PM - MUMBAI (8:00) PM, 3 DAYS\n";

cout<<"PRICE LIST\n";

cout<<"1. 4500/- 1.(A)\n";

cout<<"2. 3170/- 2.(A)\n";

cout<<"3. 2130/- 3.(A)\n";

cout<<"4. 810/- SL\n";

cout<<"\nNOTE:-CHILDREN'S FARE IS HALF OF THE ADULT'S FARE ....";

cout<<"\n\nYOUR PNR NO.IS :"<<pnno;

cout<<"\n\nENTER THE NO. OF ADULT PASSENGER..\t";

cin>>p;

cout<<"\nENTER THE NO. OF CHILDREN PASSENGER..\t";

cin>>p1;

cout<<"\nSELECT A CLASS FROM THE ABOVE PRICE LIST (1/2/3/4):\t" ;

cin>>ch2;

if(ch2==1)

{

strcpy(stand,"1.(A) [FIRST CLASS]");

cout<<"\nYOU SELECTED THE 1.(A) [FIRST CLASS]";

r=(p\*4500+p1\*2250);

}

if(ch2==2)

{

strcpy(stand,"2.(A) [SECOND CLASS]");

cout<<"\nYOU SELECTED THE 2.(A) [SECOND CLASS]";

r=(p\*3170+p1\*1585);

}

if(ch2==3)

{

strcpy(stand,"3.(A) [THIRD CLASS]");

cout<<"\nYOU SELECTED THE 3.(A) [THIRD CLASS]";

r=(p\*2130+p1\*1065);

}

if(ch2==4)

{

strcpy(stand,"SLEEPER CLASS");

cout<<"\nYOU SELECTED THE SLEEPER CLASS";

r=(p\*810+p1\*405);

}

}

else

if(ch1==8)

{

clrscr();

pnno=3847406;

strcpy(from,"MUMBAI");

strcpy(to,"GUWAHATI");

gotoxy(30,1);

cout<<"GUWAHATI EXPRESS";

gotoxy(28,2);

cout<<"....................\n";

cout<<"\tMUMBAI (8:05) AM - GUWAHATI (11:30) AM, 3 DAYS\n";

cout<<"PRICE LIST\n";

cout<<"1. 4000/- 1.(A)\n";

cout<<"2. 3170/- 2.(A)\n";

cout<<"3. 2130/- 3.(A)\n";

cout<<"4. 810/- SL\n";

cout<<"\nNOTE:-CHILDREN'S FARE IS HALF OF THE ADULT'S FARE ....";

cout<<"\n\nYOUR PNR NO.IS :"<<pnno;

cout<<"\n\nENTER THE NO. OF ADULT PASSENGER..\t";

cin>>p;

cout<<"\nENTER THE NO. OF CHILDREN PASSENGER..\t";

cin>>p1;

cout<<"\nSELECT A CLASS FROM THE ABOVE PRICE LIST (1/2/3/4):\t" ;

cin>>ch2;

if(ch2==1)

{

strcpy(stand,"1.(A) [FIRST CLASS]");

cout<<"\nYOU SELECTED THE 1.(A) [FIRST CLASS]";

r=(p\*4000+p1\*2000);

}

if(ch2==2)

{

strcpy(stand,"2.(A) [SECOND CLASS]");

cout<<"\nYOU SELECTED THE 2.(A) [SECOND CLASS]";

r=(p\*3170+p1\*1585);

}

if(ch2==3)

{

strcpy(stand,"3.(A) [THIRD CLASS]");

cout<<"\nYOU SELECTED THE 3.(A) [THIRD CLASS]";

r=(p\*2130+p1\*1065);

}

if(ch2==4)

{

strcpy(stand,"SLEEPER CLASS");

cout<<"\nYOU SELECTED THE SLEEPER CLASS";

r=(p\*810+p1\*405);

}

}

}

void passenger::modify()

{

cout<<"\n\n\t\t\t PNR NO. :"<<pnno;

cout<<"\n\nNAME :"<<name;

cout<<"\t\t\t\tADDRESS :"<<address;

cout<<"\n\nPIN NO. :"<<pin;

cout<<"\t\t\t\tMOBILE NO. is :"<<mob;

cout<<"\n\nEMAIL ID :"<<email;

cout<<"\n\nFROM :"<<from<<"\t\t\t\t TO "<<to;

cout<<"\n\nADULT PASSENGER :"<<p;

cout<<"\t\t\t\tCHILDREN PASSENGER :"<<p1;

cout<<"\n\n\t\t\t"<<stand;

cout<<"\n\n\t\t\tTOTAL FARE :"<<r;

getch();

clrscr();

cout<<"\n\t\t\t ENTER NEW DETAILS :";

char nm[30],ad[40],em[30];

long pn,mb;

int y,y1;

float ru;

cout<<"\n\nNEW NAME : (ENTER '.'TO RETAIN OLD ONE)\t";

gets(nm);

cout<<"\n\nNEW ADDRESS : (ENTER '.'TO RETAIN OLD ONE)\t";

gets(ad);

cout<<"\n\nNEW PIN NO. : (ENTER '0'TO RETAIN OLD ONE)\t";

cin>>pn;

cout<<"\n\nNEW MOBILE NO. : (ENTER '0'TO RETAIN OLD ONE)\t";

cin>>mb;

cout<<"\n\nNEW EMAIL : (ENTER '.'TO RETAIN OLD ONE)\t";

gets(em);

cout<<"\n\nNEW NO. OF ADULT PASSENGER : (ENTER '0'TO RETAIN OLD ONE)\t";

cin>>y;

cout<<"\n\nNEW NO. OF CHILDREN PASSENGER : (ENTER '0'TO RETAIN OLD ONE)\t";

cin>>y1;

if(strcmp(nm,".")!=0)

strcpy(name,nm);

if(strcmp(ad,".")!=0)

strcpy(address,ad);

if(pn!=0)

pin=pn;

if(mb!=0)

mob=mb;

if(strcmp(em,".")!=0)

strcpy(email,em);

if(y!=0)

p=y;

if(y1!=0)

p1=y1;

if((y==0&&y1!=0)||(y!=0&&y1==0)||(y!=0&&y1!=0))

{

if(ch1==1)

{

if(ch2==1)

ru=(y\*3190+y1\*1595);

else

if(ch2==2)

ru=(y\*1870+y1\*935);

else

if(ch2==3)

ru=(y\*1305+y1\*652.5);

else

if(ch2==4)

ru=(y\*500+y1\*250);

}

else

if(ch1==2)

{

if(ch2==1)

ru=(y\*2400+y1\*1200);

else

if(ch2==2)

ru=(y\*1810+y1\*905);

else

if(ch2==3)

ru=(y\*1265+y1\*632.5);

else

if(ch2==4)

ru=(y\*485+y1\*242.5);

}

if(ch1==3)

{

if(ch2==1)

ru=(y\*3935+y1\*1967.5);

else

if(ch2==2)

ru=(y\*2295+y1\*1147.5);

else

if(ch2==3)

ru=(y\*1585+y1\*792.5);

else

if(ch2==4)

ru=(y\*605+y1\*302.5);

}

if(ch1==4)

{

if(ch2==1)

ru=(y\*4815+y1\*2407.5);

else

if(ch2==2)

ru=(y\*2900+y1\*1450);

else

if(ch2==3)

ru=(y\*2110+y1\*1055);

else

if(ch2==4)

ru=(y\*810+y1\*405);

}

if(ch1==5)

{

if(ch2==1)

ru=(y\*5845+y1\*2922.5);

else

if(ch2==2)

ru=(y\*3535+y1\*1767.5);

else

if(ch2==3)

ru=(y\*2610+y1\*1305);

else

if(ch2==4)

ru=(y\*1000+y1\*500);

}

if(ch1==6)

{

if(ch2==1)

ru=(y\*5848+y1\*2924);

else

if(ch2==2)

ru=(y\*3535+y1\*1767.5);

else

if(ch2==3)

ru=(y\*2510+y1\*1255);

else

if(ch2==4)

ru=(y\*950+y1\*475);

}

if(ch1==7)

{

if(ch2==1)

ru=(y\*4500+y1\*2250);

else

if(ch2==2)

ru=(y\*3170+y1\*1585);

else

if(ch2==3)

ru=(y\*2130+y1\*1065);

else

if(ch2==4)

ru=(y\*810+y1\*405);

}

if(ch1==8)

{

if(ch2==1)

ru=(y\*4000+y1\*2000);

else

if(ch2==2)

ru=(y\*3170+y1\*1585);

else

if(ch2==3)

ru=(y\*2130+y1\*1065);

else

if(ch2==4)

ru=(y\*810+y1\*405);

}

r=ru;

}

}

void menu()

{

clrscr();

int ch;

clrscr();

gotoxy(16,8);

cout<<"MAIN MENU";

gotoxy(16,10);

cout<<"1.Add";

gotoxy(16,12);

cout<<"2.Search";

gotoxy(16,14);

cout<<"3.Cancellation";

gotoxy(16,16);

cout<<"4.Edit";

gotoxy(16,18);

cout<<"5.Exit";

gotoxy(16,20);

cout<<"Enter your choice (1/2/3/4/5):\t";

cin>>ch;

switch(ch)

{

case 1:

{

clrscr();

add();

break;

}

case 2:

{

clrscr();

search();

break;

}

case 3:

{

clrscr();

del();

break;

}

case 4:

{

clrscr();

mod();

break;

}

case 5:

{

clrscr();

for(int i=1;i<=55;i++)

{

gotoxy(i,12);

cout<<"Thank you for visiting! ";

delay(160);

clrscr();

}

exit(0);

}

}

}

void add()

{

clrscr();

ofstream fout;

fout.open("be.dat",ios::app);

gotoxy(9,2);

cout<<" TRAIN ";

gotoxy(37,2);

cout<<" FROM ";

gotoxy(67,2);

cout<<" TO ";

gotoxy(1,3);

cout<<"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx";

gotoxy(4,5);

cout<<"1.SARAIGHAT EXPRESS......";

gotoxy(33,5);

cout<<"GUWAHATI..........";

gotoxy(62,5);

cout<<"KOLKATA...........";

gotoxy(4,7);

cout<<"2.GUWAHATI EXPRESS.......";

gotoxy(33,7);

cout<<"KOLKATA...........";

gotoxy(62,7);

cout<<"GUWAHATI..........";

gotoxy(4,9);

cout<<"3.POORVA EXPRESS.........";

gotoxy(33,9);

cout<<"DELHI.............";

gotoxy(62,9);

cout<<"KOLKATA...........";

gotoxy(4,11);

cout<<"4.KOLKATA RAJDHANI.......";

gotoxy(33,11);

cout<<"KOLKATA...........";

gotoxy(62,11);

cout<<"DELHI.............";

gotoxy(4,13);

cout<<"5.DBRT RAJDHANI E........";

gotoxy(33,13);

cout<<"GUWAHATI..........";

gotoxy(62,13);

cout<<"DELHI.............";

gotoxy(4,15);

cout<<"6.DBRT RAJDHANI..........";

gotoxy(33,15);

cout<<"DELHI.............";

gotoxy(62,15);

cout<<"GUWAHATI..........";

gotoxy(4,17);

cout<<"7.GUWAHATI LTT EXPRESS...";

gotoxy(33,17);

cout<<"GUWAHATI..........";

gotoxy(62,17);

cout<<"MUMBAI............";

gotoxy(4,19);

cout<<"8.GUWAHATI EXPRESS.......";

gotoxy(33,19);

cout<<"MUMBAI............";

gotoxy(62,19);

cout<<"GUWAHATI..........\n";

gotoxy(4,20);

cout<<"\nENTER A NO. FROM THE ABOVE TABLE IN WHICH TRAIN YOU WANT TO TRAVEL .... ";

gotoxy(4,22);

cout<<"\nPRESS 0 TO RETURN TO MENU \t\t\t\t\t .... ";

cin>>ch1;

if(ch1==1||ch1==2||ch1==3||ch1==4||ch1==5||ch1==6||ch1==7||ch1==8)

{

clrscr();

d.getdata();

getch();

d.calculation();

getch();

cout<<"\n\n\n\t\t\t THANKYOU FOR BOOKING\n";

fout.write((char\*)&d,sizeof(d));

fout.close();

getch();

menu();

}

else

if(ch1==0)

{

getch();

clrscr();

menu();

}

}

void search()

{

clrscr();

ifstream fin;

fin.open("be.dat",ios::in);

char name1[30],found='n';

long pnr;

cout<<"\n\n\tENTER THE NAME YOU WANT TO SEARCH FOR .. \t";

gets(name1);

cout<<"\n\n\tENTER THE PNR NO. .. \t";

cin>>pnr;

while(!fin.eof())

{

fin.read((char\*)&d,sizeof(d));

if((strcmp(d.getname(),name1)==0)&&(d.getpnno()==pnr))

{

d.putdata();

found='y';

getch();

menu();

}

}

if(found=='n')

{

cout<<"\n\n\n\n\n\n\t\tSORRY THERE IS NO SUCH RESERVATION !!!!!!!";

getch();

menu();

}

fin.close();

getch();

}

void del()

{

clrscr();

ifstream fio("be.dat",ios::in);

ofstream file("temp.dat",ios::out);

char name3[30],found='f',confirm='n';

long pnr2;

cout<<"\n\n\t\tENTER THE NAME WHICH RECORD YOU WANT TO DELETE :";

gets(name3);

cout<<"\n\n\t\tENTER THE PNR NO. :";

cin>>pnr2;

while(!fio.eof())

{

fio.read((char\*)&d,sizeof(d));

if((strcmp(d.getname(),name3)==0)&&(d.getpnno()==pnr2))

{

d.putdata();

found='t';

cout<<"\n\\t\tARE YOU SURE, YOU WANT TO DELETE THIS RECORD!!(Y/N)..";

cin>>confirm;

if(confirm=='n'||confirm=='N')

{

file.write((char\*)&d,sizeof(d));

getch();

clrscr();

menu();

}

}

else

{

file.write((char\*)&d,sizeof(d));

found='t';

getch();

clrscr();

gotoxy(27,14);

cout<<"\nTHE FILE IS DELETED !!!!";

}

}

if(found=='f')

cout<<"\n\n\t\tTHERE IS NO SUCH RESERVATION !!!! " ;

fio.close();

file.close();

remove("be.dat");

rename("temp.dat","be.dat");

getch();

menu();

}

void mod()

{

fstream fio("be.dat",ios::in||ios::out);

char name2[30],found='f';

long pos1,pnr1;

cout<<"\n\n ENTER THE NAME WHOSE RECORD IS TO BE MODIFIED : ";

gets(name2);

cout<<"\n\n ENTER THE PNR NO. : ";

cin>>pnr1;

while(!fio.eof())

{

pos1=fio.tellg();

fio.read((char\*)&d,sizeof(d));

if((strcmp(d.getname(),name2)==0)&&(d.getpnno()==pnr1))

{

d.modify();

cout<<"\n\t\t\t PRESS ENTER !!!!!!";

getch();

clrscr();

fio.seekg(pos1);

fio.write((char\*)&d,sizeof(d));

found='t';

break;

}

}

if(found=='f')

{

cout<<"\n\n\n\n\t\t\t SORRY THERE IS NO SUCH RESERVATION!!!!!!\n";

getch();

menu();

}

fio.seekg(0);

cout<<"\n\t\t\t NOW THE FILE CONTAINS :\n";

cout<<"\t\t\t............................ \n";

while(!fio.eof())

{

fio.read((char\*)&d,sizeof(d));

d.putdata();

getch();

clrscr();

menu();

}

fio.close();

}

void main()

{

clrscr();

menu();

getch();

}

BIBLIOGRAPHY

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