A Mini Project Report

On

**RAILWAY TICKET BOOKING SYSTEM**

By

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**ABSTRACT**

A railway ticket booking system allows the traveller to book a confirmed seat in a very easy and convenient way. The days of running around for a confirmed train ticket has become a thing of the past. It has now become hassle free and just a click away. First, the user must enter the valid login credentials - Username and Password to access the booking system. After the user has logged in successfully, he/she must specify the place of departure, arrival, date of journey, class of journey etc., to view the list of available trains. The user must select his/her desired choice of train and fill other specific details like name, number of seats etc., in the form to book the ticket. Once all the details in the form are filled, ticket details along with the fare will be displayed on the screen. After the payment is done, the ticket will be confirmed in which all the necessary details like date of journey, train name, details of berths booked etc., will be printed. This system is convenient as one can book or cancel tickets sitting in the comfort of your home or office. It saves one’s time and effort and has made things particularly easy for people residing in remote locations.

**PROGRAM**

#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

#include<string.h>

typedef struct{

char name[50];

int train\_num;

int num\_of\_seats;

}pd;

void login();

void reservation(void);

void viewdetails(void);

void printticket(char name[],int,int,float);

void specifictrain(int);

float charge(int,int);

int main()

{

FILE \*fp;

fp=fopen("print.txt","a");

fputs("RAILWAY TICKET BOOKING SYSTEM\n",fp);

fclose(fp);

printf(" RAILWAY TICKET BOOKING SYSTEM\n ");

login();

int menu\_choice;

start:

printf("1>>Reserve a ticket\n2>> View all Available trains\n3>> Exit\n");

scanf("%d",&menu\_choice);

switch(menu\_choice)

{

case 1:

reservation();

break;

case 2:

viewdetails();

break;

case 3:

exit(0);

default:

printf("\nInvalid choice");

}

goto start;

return 0;

}

void viewdetails(void)

{

FILE \*fp;

fp=fopen("print.txt","a");

printf("\nTrain no.\tName\t\tDestinations\t\tCharges\t\tTime\n");

printf("\n1001\tDuronto Express\tPune to New Delhi\tRs.8000\t\t9am\n");

printf("\n1002\tIsland Express\tKanyakumari to Trivandrum\tRs.7000\t\t12pm\n");

printf("\n1003\tGoa Express\tGoa to Karnataka\tRs.6500\t\t8am\n");

printf("\n1004\tDibrugarh Rajdhani Express\tWest Bengal to Assam\tRs.6500\t\t7am\n");

printf("\n1005\tMatsyagandha Express\tRatnagiri to Mangalore\tRs.6500\t\t6am\n");

printf("\n1006\tDelhi Jaisalmer Express\tDelhi to Jaisalmer\tRs.6000\t\t11am\n");

printf("\n1007\tGomti Express\tLucknow to New Delhi\tRs.5000\t\t10:30am\n");

printf("\n1008\tGolconda Express\tSecunderabad to Guntur\tRs.4500\t\t9am\n");

printf("\n1009\tHirakud Express\tVishakapatnam to Amritsar\tRs.4500\t\t7pm\n");

printf("\n1010\tMahabodhi Express\tGaya to New Delhi\tRs.4500\t\t6pm\n");

fputs("\nTrain no.\tName\t\tDestinations\t\tCharges\t\tTime\n",fp);

fputs("\n1001\tDuronto Express\tPune to New Delhi\tRs.8000\t\t9am\n",fp);

fputs("\n1002\tIsland Express\tKanyakumari to Trivandrum\tRs.7000\t\t12pm\n",fp);

fputs("\n1003\tGoa Express\tGoa to Karnataka\tRs.6500\t\t8am\n",fp);

fputs("\n1004\tDibrugarh Rajdhani Express\tWest Bengal to Assam\tRs.6500\t\t7am\n",fp);

fputs("\n1005\tMatsyagandha Express\tRatnagiri to Mangalore\tRs.6500\t\t6am\n",fp);

fputs("\n1006\tDelhi Jaisalmer Express\tDelhi to Jaisalmer\tRs.6000\t\t11am\n",fp);

fputs("\n1007\tGomti Express\tLucknow to New Delhi\tRs.5000\t\t10:30am\n",fp);

fputs("\n1008\tGolconda Express\tSecunderabad to Guntur\tRs.4500\t\t9am\n",fp);

fputs("\n1009\tHirakud Express\tVishakapatnam to Amritsar\tRs.4500\t\t7pm\n",fp);

fputs("\n1010\tMahabodhi Express\tGaya to New Delhi\tRs.4500\t\t6pm\n",fp);

fclose(fp);

}

void reservation(void)

{

char confirm;

float charges;

pd passdetails;

FILE \*fp;

fp=fopen("print.txt","a");

printf("Enter your name: ");

scanf("%s",passdetails.name);

fputs("Enter your name: ",fp);

fputs(passdetails.name,fp);

printf("Enter number of seats: ");

fputs("\nEnter number of seats: ",fp);

scanf("%d",&passdetails.num\_of\_seats);

fprintf(fp,"%d",passdetails.num\_of\_seats);

fclose(fp);

viewdetails();

fp=fopen("print.txt","a");

printf("\nEnter train number: ");

scanf("%d",&passdetails.train\_num);

fputs("\nEnter train number: ",fp);

fprintf(fp,"%d",passdetails.train\_num);

fclose(fp);

if(passdetails.train\_num>=1001 && passdetails.train\_num<=1010)

{

charges = charge(passdetails.train\_num,passdetails.num\_of\_seats);

printticket(passdetails.name,passdetails.num\_of\_seats,passdetails.train\_num,charges);

}

printf("Confirm ticket (y/n): ");

start1:

scanf("%c",&confirm);

if(confirm=='y')

{

printf("%s\t%d\t%d\t%f",passdetails.name,passdetails.num\_of\_seats,passdetails.train\_num,charges);

printf("\nRESERVATION DONE!\n");

}

else

{

if(confirm=='n')

{

printf("RESERVATION NOT DONE!\n");

}

else

{

goto start1;

}

}

}

float charge(int train\_num,int num\_of\_seats)

{

if(train\_num==1001)

{

return(8000\*num\_of\_seats);

}

if(train\_num==1002)

{

return(7000\*num\_of\_seats);

}

if(train\_num==1003)

{

return(6500\*num\_of\_seats);

}

if(train\_num==1004)

{

return(6500\*num\_of\_seats);

}

if(train\_num==1005)

{

return(6500\*num\_of\_seats);

}

if(train\_num==1006)

{

return(6000\*num\_of\_seats);

}

if(train\_num==1007)

{

return(5000\*num\_of\_seats);

}

if(train\_num==1008)

{

return(4500\*num\_of\_seats);

}

if(train\_num==1009)

{

return(4500\*num\_of\_seats);

}

if(train\_num==1010)

{

return(4500\*num\_of\_seats);

}

}

void printticket(char name[],int num\_of\_seats,int train\_num,float charges)

{

FILE \*fp;

fp=fopen("print.txt","a");

printf("TICKET\n");

fputs("TICKET\n",fp);

printf("Name: \t%s",name);

fputs("Name: \n",fp);

fputs(name,fp);

printf("\nNumber of seats: %d",num\_of\_seats);

fputs("\nNumber of seats: \n",fp);

fprintf(fp,"%d",num\_of\_seats);

printf("\nTrain number : \t%d",train\_num);

fputs("\nTrain number: \n",fp);

fprintf(fp,"%d",train\_num);

specifictrain(train\_num);

printf("\nCharges:\t%f\n",charges);

fclose(fp);

}

void specifictrain(int train\_num)

{

FILE \*fp;

fp=fopen("print.txt","a");

if(train\_num==1001)

{

printf("\nTrain:\tDuronto Express\nDestination:\tPune to New Delhi\n Departure:\t9am");

}

if(train\_num==1002)

{

printf("\nTrain:\tIsland Express\nDestination:\tKanyakumari to Trivandrum\n Departure:\t12pm");

}

if(train\_num==1003)

{

printf("\nTrain:\tGoa Express\nDestination:\tGoa to Karnataka\n Departure:\t8am");

}

if(train\_num==1004)

{

printf("\nTrain:\tDibrugarh Rajdhani Express\nDestination:\tWest Bengal to Assam\n Departure:\t7am");

}

if(train\_num==1005)

{

printf("\nTrain:\tMatsyagandha Express\nDestination:\tRatnagiri to Mangalore\n Departure:\t6am");

}

if(train\_num==1006)

{

printf("\nTrain:\tDelhi Jaisalmer Express\nDestination:\tDelhi to Jaisalmer\n Departure:\t11am");

}

if(train\_num==1007)

{

printf("\nTrain:\tGomti Express\nDestination:\tLucknow to New Delhi\n Departure:\t10:30am");

}

if(train\_num==1008)

{

printf("\nTrain:\tGolconda Express\nDestination:\tSecunderabad to Guntur\n Departure:\t9am");

}

if(train\_num==1009)

{

printf("\nTrain:\tHirakud Express\nDestination:\tVishakapatnam to Amritsar\n Departure:\t7pm");

}

if(train\_num==1010)

{

printf("\nTrain:\tMahabodhi Express\nDestination:\tGaya to New Delhi\n Departure:\t6pm");

}

if(train\_num==1001)

{

fputs("\nTrain:\tDuronto Express\nDestination:\tPune to New Delhi\n Departure:\t9am\n",fp);

}

if(train\_num==1002)

{

fputs("\nTrain:\tIsland Express\nDestination:\tKanyakumari to Trivandrum\n Departure:\t12pm\n",fp);

}

if(train\_num==1003)

{

fputs("\nTrain:\tGoa Express\nDestination:\tGoa to Karnataka\n Departure:\t8am\n",fp);

}

if(train\_num==1004)

{

fputs("\nTrain:\tDibrugarh Rajdhani Express\nDestination:\tWest Bengal to Assam\n Departure:\t7am\n",fp);

}

if(train\_num==1005)

{

fputs("\nTrain:\tMatsyagandha Express\nDestination:\tRatnagiri to Mangalore\n Departure:\t6am\n",fp);

}

if(train\_num==1006)

{

fputs("\nTrain:\tDelhi Jaisalmer Express\nDestination:\tDelhi to Jaisalmer\n Departure:\t11am\n",fp);

}

if(train\_num==1007)

{

fputs("\nTrain:\tGomti Express\nDestination:\tLucknow to New Delhi\n Departure:\t10:30am\n",fp);

}

if(train\_num==1008)

{

fputs("\nTrain:\tGolconda Express\nDestination:\tSecunderabad to Guntur\n Departure:\t9am\n",fp);

}

if(train\_num==1009)

{

fputs("\nTrain:\tHirakud Express\nDestination:\tVishakapatnam to Amritsar\n Departure:\t7pm\n",fp);

}

if(train\_num==1010)

{

fputs("\nTrain:\tMahabodhi Express\nDestination:\tGaya to New Delhi\n Departure:\t6pm\n",fp);

}

fclose(fp);

}

void login()

{

char name1[4]="Ted";

char pass1[5]="t123";

char name2[4]="Joe";

char pass2[5]="j123";

char name3[4]="Bob";

char pass3[5]="b123";

char username[4];

char password[5];

printf("\t\tLOGIN SYSTEM\n");

start:

printf("Enter username: ");

scanf("%s",username);

printf("Enter password: ");

scanf("%s",password);

if((strcmp(username,name1) == 0 && strcmp(password,pass1) == 0) || (strcmp(username,name2) == 0 && strcmp(password,pass2) == 0) || (strcmp(username,name3) == 0 && strcmp(password,pass3) == 0))

{

printf("\n\t\tACCESS GRANTED\n");

}

else

{

printf("\t\tACCESS DENIED\n");

goto start;

}

}

**OUTPUT OF THE PROGRAM**

RAILWAY TICKET BOOKING SYSTEM

                LOGIN SYSTEM

Enter username:   Bob

Enter password:   b1234

                ACCESS DENIED

Enter username:   Joe

Enter password:   j123

                ACCESS GRANTED

1>>Reserve a ticket

2>> View all Available trains

3>> Exit

1

Enter your name:  Akash

Enter number of seats:  3

Train no.       Name            Destinations            Charges         Time

1001    Duronto Express Pune to New Delhi       Rs.8000         9am

1002    Island Express  Kanyakumari to Trivandrum       Rs.7000         12pm

1003    Goa Express     Goa to Karnataka        Rs.6500         8am

1004    Dibrugarh Rajdhani Express      West Bengal to Assam    Rs.6500                                                                             7

am

1005    Matsyagandha Express    Ratnagiri to Mangalore  Rs.6500         6am

1006    Delhi Jaisalmer Express Delhi to Jaisalmer      Rs.6000         11am

1007    Gomti Express   Lucknow to New Delhi    Rs.5000         10:30am

1008    Golconda Express        Secunderabad to Guntur  Rs.4500         9am

1009    Hirakud Express Vishakapatnam to Amritsar       Rs.4500         7pm

1010    Mahabodhi Express       Gaya to New Delhi       Rs.4500         6pm

Enter train number:  1002

TICKET

Name:   Akash

Number of seats: 3

Train number :  1002

Train:  Island Express

Destination:    Kanyakumari to Trivandrum

Departure:     12pm

Charges:        21000.000000

Confirm ticket (y/n):  y

Akash   3       1002    21000.000000

RESERVATION DONE!

1>>Reserve a ticket

2>> View all Available trains

3>> Exit

2

Train no.       Name            Destinations            Charges         Time

                                                                                                                                                   1001    Duronto Express Pune to New Delhi       Rs.8000         9am

1002    Island Express  Kanyakumari to Trivandrum       Rs.7000         12pm

1003    Goa Express     Goa to Karnataka        Rs.6500         8am

1004    Dibrugarh Rajdhani Express      West Bengal to Assam    Rs.6500                                                                             7

am

1005    Matsyagandha Express    Ratnagiri to Mangalore  Rs.6500         6am

1006    Delhi Jaisalmer Express Delhi to Jaisalmer      Rs.6000         11am

1007    Gomti Express   Lucknow to New Delhi    Rs.5000         10:30am

1008    Golconda Express        Secunderabad to Guntur  Rs.4500         9am

1009    Hirakud Express Vishakapatnam to Amritsar       Rs.4500         7pm

1010    Mahabodhi Express       Gaya to New Delhi       Rs.4500         6pm

1>>Reserve a ticket

2>> View all Available trains

3>> Exit

4

Invalid choice1>>Reserve a ticket

2>> View all Available trains

3>> Exit

3

**IN THE FILE PRINT.TXT**

RAILWAY TICKET BOOKING SYSTEM

Enter your name: Akash

Enter number of seats: 3

Train no. Name Destinations Charges Time

1001 Duronto Express Pune to New Delhi Rs.8000 9am

1002 Island Express Kanyakumari to Trivandrum Rs.7000 12pm

1003 Goa Express Goa to Karnataka Rs.6500 8am

1004 Dibrugarh Rajdhani Express West Bengal to Assam Rs.6500 7am

1005 Matsyagandha Express Ratnagiri to Mangalore Rs.6500 6am

1006 Delhi Jaisalmer Express Delhi to Jaisalmer Rs.6000 11am

1007 Gomti Express Lucknow to New Delhi Rs.5000 10:30am

1008 Golconda Express Secunderabad to Guntur Rs.4500 9am

1009 Hirakud Express Vishakapatnam to Amritsar Rs.4500 7pm

1010 Mahabodhi Express Gaya to New Delhi Rs.4500 6pm

Enter train number: 1002

Train: Island Express

Destination: Kanyakumari to Trivandrum

Departure: 12pm

TICKET

Name:

Akash

Number of seats:

3

Train number:

1002

Train no. Name Destinations Charges Time

1001 Duronto Express Pune to New Delhi Rs.8000 9am

1002 Island Express Kanyakumari to Trivandrum Rs.7000 12pm

1003 Goa Express Goa to Karnataka Rs.6500 8am

1004 Dibrugarh Rajdhani Express West Bengal to Assam Rs.6500 7am

1005 Matsyagandha Express Ratnagiri to Mangalore Rs.6500 6am

1006 Delhi Jaisalmer Express Delhi to Jaisalmer Rs.6000 11am

1007 Gomti Express Lucknow to New Delhi Rs.5000 10:30am

1008 Golconda Express Secunderabad to Guntur Rs.4500 9am

1009 Hirakud Express Vishakapatnam to Amritsar Rs.4500 7pm

1010 Mahabodhi Express Gaya to New Delhi Rs.4500 6pm