**Railway Ticket Booking System**

**Aim**

To book railway tickets according to customer requirements and generate ticket.

**Description**

This whole system is designed to reserve train tickets for various destinations. When the program is executed, there’s a login system for the Admin and the User.

After admin gets logged in then he can add the train details and other information for the ticket booking. All the train records will be stored in the Text File (.txt).

Then the user has to choose between reserving a ticket and viewing all the available train. By choosing reservation of ticket, user has to enter the name, number of tickets and then choose by which train to travel according to their destination. User can also view full list of all the trains available. The ticket details will be stored in the Text File (.txt).

This whole project is designed in C Programming language & different concepts of C Programming have been used for the development.

**Main objectives of the project**

* Login system with proper validations
* Easy ticket reservations
* Records of the train list in a separate file
* Systematic presentation of train’s information
* Generation of ticket in .txt format
* Multiple passenger ticket booking
* Easy to use system

**SOURCE CODE**

#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<stdlib.h>

int welcomepage();

int loginpage();

void adminpage();

void addtrain();

void displaytrain();

void adminpage2();

void userpage();

void displaytrainuser();

void displayticket();

void bookticket();

void userpage2();

int welcomepage()

{

int op;

printf("\t\tWelcome to\n");

printf("\tRailway Ticket Booking System\n\n\n\n");

printf("Press 1 to continue\t");

scanf("%d",&op);

return op;

}

int loginpage()

{

int op;

system("cls");

printf("Press 1 for Admin Login\nPress 2 for User Login\nPress 3 for Exit\n\n");

scanf("%d",&op);

return op;

}

void adminpage()

{

char uname[10]="admin",password[10]="admin",unm[10],pass[10];

int cmp\_unm,cmp\_pass,len,i;

system("cls");

start:

printf("Enter Login Credentials\n\n\n");

printf("Enter username -\t");

scanf("%s",unm);

cmp\_unm=strcmp(uname,unm);

if(cmp\_unm!=0)

{

printf("\nWrong Username. Enter again.\n--------------------\n\n\n");

goto start;

}

len=strlen(password);

pass:

printf("\nEnter password -\t");

for(i=0;i<len;i++)

{

pass[i]=getch();

printf("\*");

}

cmp\_pass=strcmp(password,pass);

if(cmp\_pass!=0)

{

printf("\nWrong Password. Enter again.\n--------------------\n\n\n");

goto pass;

}

adminpage2();

}

void addtrain()

{

struct train

{

int tno;

char tname[20];

char bpoint[20];

char dpoint[20];

}s;

printf("Enter Train Information\n\n");

printf("Enter Train Name -\t");

scanf(" %[^\n]s",s.tname);

printf("Enter Train Number -\t");

scanf("%d",&s.tno);

printf("Enter Train Boarding Point -\t");

scanf(" %[^\n]s",s.bpoint);

printf("Enter Train Destination Point -\t");

scanf(" %[^\n]s",s.dpoint);

FILE \*fptr;

fptr = fopen("train details.txt", "a+");

fprintf(fptr, "%d \t", s.tno);

fprintf(fptr, "%s\t", s.tname);

fprintf(fptr, "%s\t\t\t", s.bpoint);

fprintf(fptr, "%s\n\n\n", s.dpoint);

fclose(fptr);

printf("\n\n\nTrain Details inserted successfully!");

printf("\n\n\nPress any key to continue");

getch();

adminpage2();

}

void displaytrain()

{

printf("Train Number\tTrain Name\t\tBoarding Point\t\tDestination Point\n");

printf("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\n");

FILE \*fptr;

fptr = fopen("train details.txt","r");

if (fptr == NULL)

{

printf("Cannot find file. \n");

exit(0);

}

char ch = fgetc(fptr);

while (ch != EOF)

{

printf ("%c", ch);

ch = fgetc(fptr);

}

fclose(fptr);

printf("\n\n\nPress any key to continue");

getch();

adminpage2();

}

void adminpage2()

{

int op;

system("cls");

page2:

printf("Press 1 to Add Train Details\nPress 2 to Display All Train Details");

printf("\nPress 3 to Exit\n\n");

scanf("%d",&op);

switch(op)

{

case 1:

addtrain();

break;

case 2:

displaytrain();

break;

case 3:

exit(0);

break;

default:

printf("\nWrong Input. Enter again.\n--------------------\n\n\n");

goto page2;

}

}

void userpage()

{

char uname[10]="user",password[10]="user",unm[10],pass[10];

int cmp\_unm,cmp\_pass,len,i;

system("cls");

start2:

printf("Enter Login Credentials\n\n\n");

printf("Enter username -\t");

scanf("%s",unm);

cmp\_unm=strcmp(uname,unm);

if(cmp\_unm!=0)

{

printf("\nWrong Username. Enter again.\n--------------------\n\n\n");

goto start2;

}

len=strlen(password);

pass2:

printf("\nEnter password -\t");

for(i=0;i<len;i++)

{

pass[i]=getch();

printf("\*");

}

cmp\_pass=strcmp(password,pass);

if(cmp\_pass!=0)

{

printf("\nWrong Password. Enter again.\n--------------------\n\n\n");

goto pass2;

}

}

void displaytrainuser()

{

printf("Train Number\tTrain Name\t\tBoarding Point\t\tDestination Point\n");

printf("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\n");

FILE \*fptr;

fptr = fopen("train details.txt","r");

if (fptr == NULL)

{

printf("Cannot find file. \n");

exit(0);

}

char ch = fgetc(fptr);

while (ch != EOF)

{

printf ("%c", ch);

ch = fgetc(fptr);

}

fclose(fptr);

printf("\n\n\nPress any key to continue");

getch();

userpage2();

}

void displayticket()

{

printf("Train Ticket\n");

printf("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\n");

FILE \*fptr;

fptr = fopen("train ticket.txt","r");

if (fptr == NULL)

{

printf("Cannot find file. \n");

exit(0);

}

char ch = fgetc(fptr);

while (ch != EOF)

{

printf ("%c", ch);

ch = fgetc(fptr);

}

fclose(fptr);

printf("\n\n\nPress any key to continue");

getch();

userpage2();

}

void bookticket()

{

int i;

struct ticket

{

int tno;

int no\_of\_pass;

char date[20];

};

struct passenger

{

int age;

char name[20];

char gender;

};

struct ticket t;

printf("Book Ticket\n----------------------\n\n");

printf("Enter Train Number -\t");

scanf("%d",&t.tno);

printf("Enter Number of passengers -\t");

scanf("%d",&t.no\_of\_pass);

printf("Enter Date of travel (dd-mm-yy) -\t");

scanf(" %s",t.date);

struct passenger p[t.no\_of\_pass];

for(i=0;i<t.no\_of\_pass;i++)

{

printf("\n\nEnter Passenger [%d] Name -\t",i+1);

scanf(" %[^\n]s",p[i].name);

printf("Enter Passenger [%d] Age -\t",i+1);

scanf("%d",&p[i].age);

printf("Enter Passenger [%d] Gender (M/F) -\t",i+1);

scanf(" %c",&p[i].gender);

}

FILE \*fptr;

fptr = fopen("train ticket.txt", "w+");

fprintf(fptr, "Train Number = %d\n", t.tno);

fprintf(fptr, "Number of passengers = %d\n", t.no\_of\_pass);

fprintf(fptr, "Date of travel = %s\n\n", t.date);

for(i=0;i<t.no\_of\_pass;i++)

{

fprintf(fptr, "\n\nPassenger [%d] Name -\t%s",i+1,p[i].name);

fprintf(fptr, "\nPassenger [%d] Age -\t%d",i+1,p[i].age);

fprintf(fptr, "\nPassenger [%d] Gender (M/F) -\t%c",i+1,p[i].gender);

}

fclose(fptr);

printf("\n\n\nTicket Booked Successfully!");

printf("\n\n\nPress any key to continue....");

getch();

userpage2();

}

void userpage2()

{

int op;

system("cls");

userpage2:

printf("Press 1 to Book Train\nPress 2 to Display Available Trains");

printf("\nPress 3 to View Ticket\nPress 4 to Exit\n\n");

scanf("%d",&op);

switch(op)

{

case 1:

bookticket();

break;

case 2:

displaytrainuser();

break;

case 3:

displayticket();

break;

case 4:

exit(0);

break;

default:

printf("\nWrong Input. Enter again.\n--------------------\n\n\n");

goto userpage2;

}

}

void main()

{

int op;

op=welcomepage();

if(op==1){

op=loginpage();

if(op==1){

adminpage();

}

else if(op==2){

userpage();

userpage2();

}

else{

exit(0);

}

}else{

exit(0);

}

getch();

}

**SCREENSHOTS**

















