

```
#include<string.h>

#include <stdio.h>

#include <time.h>

#include<Windows.h>

#include<stdlib.h>

#define _CRT_SECURE_NO_WARNINGS

#pragma warning (disable : 4101)

# define _CRTIMP __declspec(dllimport)

void greeting(void);// this function calls the initial transition runs only once

void Create_account(int);//this create account depending on function arugument either for user
and admin,

void admin_menu();

void user_menu();

int authentication(int);//this function for login of user or admin depending on argument passed

void line_anim(int);//this function prints a line animation size of line depending on the argument
passed

void txt_anim(char*, int);//this function prints the char array passed in a transition

void change_pass(int);//this simpmlly changes the password of admin or user

void addMov();//this function is used only for admin to insert moives

void buy_ticket(int);

int seatno(int, int);//to book seat

char name1[20];

int check = 0;

void close(void);//this function exit the program

struct book
```

```

{
    int mnum;
    char mname[20];
    char mtime[10];
    char mday[12];
    char mtype[15];
    int fee;
};

int main()
{
    if (check == 0) {
        greeting();//this function runs only once in the begining
        check += 1;
    }

    int choice = 0, auth = 10;

    char title[] = "\n\tLOG-IN, And GET 30% DISSCOUNT";
    txt_anim(&title[0], sizeof(title));

    while (1 == 1) //this loop goes forever untill 3 is pressed in main menu
    {
        line_anim(38);

        //following 3 lines just print main menu.
        printf("\n\t-----\n\t-----\n");Sleep(1000);

        printf("\t| \tMAIN MENU ## \t\t| \n \t| 1. Create Account\t\t| \n \t| 2. Log-in\t\t\t| \n \t| 3. Buy Ticket Without-login\t| \n \t| 4. Exit\t\t\t|");Sleep(1500);

        printf("\n\t-----\n\t-----\n"); Sleep(1000);

        printf("\tEnter YOUR CHOICE :: ");Sleep(1000);
    }
}

```

```
scanf("%d", &choice); //choice variable will selection from menu
```

```
switch (choice) { //switch to make decision
```

```
case 1:
```

```
    system("cls");
```

```
    line_anim(38);
```

```
    printf("\n\t*****\n"); Sleep(1000);
```

```
    printf("\t| Creator Account As: \t\t| \n \t| 1. Admin\t\t\t| \n \t| 2. User  
\t\t\t| \n \t| 3. Go-to Main Menu\t\t| \n \t| 3. Exit\t\t\t|"); Sleep(1000);
```

```
    printf("\n\t***** \n\tEnter your choioce : "); Sleep(1000);
```

```
    scanf("%d", &choice); //now choice variable will selection either user or
```

admin

```
    if (choice == 4)
```

```
        close();
```

```
    else if (choice == 3) {
```

```
        system("cls");
```

```
        main();
```

```
    }
```

```
    else
```

```
        Create_account(choice);
```

```
    break;
```

```
case 2:
```

```
    system("cls");
```

```
    line_anim(38);
```

```
    printf("\n\t*****\n"); Sleep(500);
```

```
    printf("\t| Login-in As: \t\t| \n \t| 1. Admin\t\t\t| \n \t| 2. User \t\t\t| \n \t| 3.  
Go-to Main Menu\t\t| \n \t| 4. Exit\t\t\t|"); Sleep(500);
```

admin

```
printf("\n\t***** \n\tEnter your choioce : ");Sleep(500);  
scanf("%d", &choice); //now choice varaiable will selection either user or
```

```
    if (choice == 4)  
        close();  
    if((choice==2) || (choice == 1))  
        auth = authentication(choice);  
    if (auth == 0) {  
        printf("\tYou are logged-In :) \n");  
        system("PAUSE");  
        system("cls");  
        if (choice == 2)  
            user_menu();  
        else if (choice == 1)  
            admin_menu();  
    }  
    else  
        system("cls");  
    break;
```

case 3:

```
    buy_ticket(0);
```

case 4:

```
    close();  
    break;
```

default:

```
    printf("\t\nBad Selection, select from the list again : ");
```



```
for (int count = i; count > 0;count--)
```

```
    printf("\t");
```

```
    printf("\t\t  [__]|_|__)< \n");
```

```
for (int count = i; count > 0;count--)
```

```
    printf("\t");
```

```
    printf("\t\t  oo  oo 'oo OOOO-| oo\\_\\n");
```

```
if (i != 8) {
```

```
    Sleep(190);
```

```
    system("cls");
```

```
}
```

```
else
```

```
    Sleep(1000);
```

```
}
```

```
line_anim(38);
```

```
printf("\t _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ \n"); Sleep(1200);
```

```
printf("\t / _ ( ( \\ ( ( _ ( \\ V ) /\n ( ( / _ ( ) / ( _ ( ) / _ ( V / _ ( ( _ ( \\ V )\n"); Sleep(1200);
```

```
printf("\t ( _ _ ) ( ) ( ) _ ) ( / 0 \\ ( ) _ ( ( ( _ ) ( ) _ ) ( \\ _ \\ \\ \\ /\n\n"); Sleep(1200);
```

```
printf("\t \\ _ ( _ 0 \\ _ ( / \\ \\ _ ( _ ) 0 ( _ \\ _ 0 \\ _ ( _ ) 0 ( _ / 0 ( _ / 0 ( _ / \\ \\ \\ )\n"); Sleep(1200);
```

```
char subtitle[] = " (: CINEMA TICKET SYSTEM BY SANJAY KUMAR :) . . . \n ";
```

```
printf("\n \t\t\t\t\t");
```

```
txt_anim(subtitle, sizeof(subtitle));
```

```
//This prints the title and subtitle
```

```
}//end of greeting function
```

```
//this function is used for allocating seats and deallocating seats for customers
```

```
int seatno(int mov_no, int select) {  
    int i = 0, j = 0;  
    FILE* ptr;  
    int seat_no = 0;  
    char file_nm[10];  
    sprintf(file_nm, "_%d", mov_no);  
    strcat(file_nm, ".txt");  
    ptr = fopen(file_nm, "r");  
    int array[10][10];  
    if (ptr == NULL) {  
        for (i = 0; i < 10; i++)  
            for (j = 0; j < 10; j++) {  
                if (i == 0)  
                    array[i][j] = j + 1;  
                else  
                    array[i][j] = (10 * i) + (j + 1);  
            }  
    }  
    else {  
        for (i = 0; i < 10; i++) {
```

```

        for (j = 0; j < 10; j++)
            fscanf(ptr, " %7d", &array[i][j]);

        fscanf(ptr, "\n");
    }

    fclose(ptr);
}

if (select == 0) {

    printf("\n\t\t\t\t S C R E E N"); Sleep(100);

    printf("\n\t\t\t\t | | | | \n"); Sleep(100);

    for (i = 0; i < 10; i++) {

        for (j = 0; j < 10; j++) {

            if (array[i][j] == 0)

                printf("    **");

            else

                printf(" %7d", array[i][j]);

        }

        printf("\n\n"); Sleep(50);

    }

    char head[] = "\n\tPositions shown with ** are already reserved.\n\tSelect
Seat.NO from non-reserved seats: ";

    txt_anim(head, sizeof(head));

    Again:

    scanf("%d", &seat_no);

    i = (seat_no / 10);

    j = (seat_no % 10) - 1;

    if (array[i][j] == 0) {

```



```

                printf("\t!! Seat no : %d is already reserved.\n\tPlease select again : ",
seat_no);

                goto Again;

            }

            array[i][j] = 0;

        }

        else {

            i = (select / 10);

            j = (select % 10) - 1;

            array[i][j] = select;

        }

        ptr = fopen(file_nm, "w");

        for (i = 0; i < 10; i++) {

            for (j = 0; j < 10; j++)

                fprintf(ptr, " %7d ", array[i][j]);

            fprintf(ptr, "\n");

        }

        fclose(ptr);

        return seat_no;

    }

```

//buy_ticket function can be called directly from main menu or after login as user.

```

void buy_ticket(int select) {

    system("cls");

    FILE* ptr;

    char c;

    int num = 0, sno, seat;

```

```

char ch;

float price = 0.0;

char head1[] = "\n\n\tChoose From Above Movie S.Numbers : ";

ptr = fopen("Movies.txt", "a+");

char head[] = "\nS.No   TYPE OF MOVIE   NAME OF MOVIE   DATE   TIME
PRICE(IN RUPESS).\n";

txt_anim(head, sizeof(head));

line_anim(30);

    while ((ch = fgetc(ptr)) != EOF) {

        printf("%c", ch);

        if (ch == '\n')

            Sleep(100);

    }

line_anim(30);

    if (select == 1) {

        system("PAUSE");

        admin_menu();

    }

fclose(ptr);

ptr = fopen("Movies.txt", "r");

fseek(ptr, 0, SEEK_END);

    if (ftell(ptr) == 0) {

        printf("\n\tTheir is no movie in cinema right-now\n\tPlease ask Admin to
ADD Movies.##\n");

        system("PAUSE");

        system("cls");

```

```

        main();
    }
    else{
        rewind(ptr);
        txt_anim(head1, sizeof(head1));
        scanf("%d", &sno);
        for (c = getc(ptr); c != EOF; c = getc(ptr)) {
            if (c == '\n') // Increment count if this character is newline
                num = num + 1;
            if (num == sno - 1)
                break;
        }
        if (select == 0) { //if function is called directly to buy ticket from main

```

menu

```

            printf("\tENTER YOUR NAME : ");
            getc(stdin);
            fgets(name1, 20, stdin);
        }
        seat = seatno(sno, 0);
        system("PAUSE");
        struct book b;
        fscanf(ptr, "%*5d. %15s %20s ", b.mtype, b.mname);
        fscanf(ptr, "%10s %13s %14d \n", b.mday, b.mtime, &b.fee);
        price = (float)b.fee;
        if (select == 2) //discount if called from user menu
            price = 0.7 * price;

```

```

system("cls");

printf("\n\n");

time_t t;

time(&t);

printf("\t-----TICKET BOOKING RECEIPT-----\n");

line_anim(24);

printf("\n\tTICKET BOOKING DETAILS : %s \n", ctime(&t));Sleep(200);

printf("\t Movie Name : %20s   Movie No   : %d \n", b.mname, sno);Sleep(200);

printf("\t Movie Type : %20s   Customer Name : %s\n", b.mtype,
name1);Sleep(200);

printf("\t Movie Time : %20s   Seat Number : %d\n", b.mtime, seat);Sleep(200);

printf("\t Movie Date : %20s   \n\n", b.mday);Sleep(200);

    if (select == 0) {

        printf("\t\t\t\t\t price      : %.2f", price);Sleep(200);

        line_anim(24);

        system("PAUSE");

        system("cls");

        main();

    }

    if (select == 2) {

        printf("\t %s You are logged-in \t \tPrice 30%% OFF : %.2f",name1,
price);Sleep(200);

        line_anim(24);

        system("PAUSE");

        system("cls");

        user_menu();

```

```

        }
    }
}

```

```

void addMov()

```

```

{
    int num = 1;

    char c;

    struct book b;

    char op;

    FILE* fp;

    char title[] = "\t!! NOTE fill all fields without space.\n";

    txt_anim(title, sizeof(title));

    printf("\n  Enter Name of  Movie      : ");

    scanf("%s", b.mname);

    printf("    Enter type Movie      : ");

    scanf("%s", b.mtype);

    printf("Enter Movie Schedule (DD:MM:YYYY) : ");

    c = getc(stdin);

    scanf("%s", b.mday);

    printf("  Enter Time (eg hh:mm AM )    : ");

    scanf("%s", &b.mtime);

    printf("    Enter Ticket Prize      : ");

    scanf("%d", &b.fee);

    fp = fopen("Movies.txt", "a+");//above lines just input the required details for
movie

```

```

rewind(fp);

for (c = getc(fp); c != EOF; c = getc(fp))

    if (c == '\n') // Increment count if this character is newline

        num = num + 1; //num+1 is the 1 more than the total no of
movies already present in data

fprintf(fp, "%5d. %15s %20s ", num, b.mtype, b.mname);

fprintf(fp, "%10s %13s %14d \n", b.mday, b.mtime, b.fee); //now inpute fiels are
entered in the file

printf("\n\tRecord insert sucessful!");

line_anim(38);

fclose(fp);

do {

    printf("\n\tAdd another record (y/n)? : ");

    c = getc(stdin);

    scanf("%c", &op);

    switch (op) {

        case 'y':

            printf("\n");

            addMov();

        case 'n':

            printf("\n");

            admin_menu();

        default:

            printf("Please select (y) or (n)! \n");

    }

} while (op != 'n');

```

```

        admin_menu();
    }

int authentication(int select) {
    char password[20], tempname[30], check_pass[20];
    unsigned int length;
    printf("\tENTER YOUR NAME : ");
    getc(stdin);
    fgets(name1, sizeof(name1), stdin);
    strcpy(tempname, name1);
    length = strlen(tempname);
    if (select == 1)
        strcat(tempname, " admin");
    strcat(tempname, ".txt");

    FILE* ptr;
    if ((ptr = fopen(tempname, "r")) == NULL) { //to check if the account exist
        printf("\t!!This user/admin account does Not exist.\n Press any key to
continue");

        getchar();
        return 0;
    }
    else { //if files exist than it inputs the password
        fclose(ptr);
        printf("\tEnter Password : ");

```

Again:

```

scanf("%s", password);

ptr = fopen(tempname, "a+");

fseek(ptr, -20, SEEK_END);

fscanf(ptr, "%s", check_pass);

if (strcmp(password, check_pass) != 0) {

    printf("\t!!Password does not matche.\n \tENTER AGAIN:\t");

    goto Again;

}

}

rewind(ptr); //this function brings the curser in the file to the start of file

fclose(ptr);

return 0;

}

void Create_account(int select) {

    char name[20], password[20], choose, tempname[30];

    char admin_pass[20] = "Welcome@1";

    printf("\tENTER YOUR NAME: ");

    getc(stdin);

    fgets(name, sizeof(name), stdin); //this line input name

    strcpy(tempname, name);

    //

    if (select == 1) { //if account is created for

admin

        strcat(tempname, " admin"); //then admin is also concatenated

with the name

```


pass: //as admin has to be
given more authorities

```
printf("\tEnter Admin authentication password: ");  
scanf("%s", password);  
if ((strcmp(password, admin_pass)) != 0) {  
    printf("\t!!Admin password not matched!!\n\tWant to re-  
enter password (y/n): ");  
    getc(stdin);  
    scanf("%c", &choose);  
    if (choose == 'y')  
        goto pass;  
    return;  
}
```

```
printf("\tENTER your password: ");  
scanf("%s", password);  
strcat(tempname, ".txt");  
FILE* ptr;  
strcat(name, " ");  
ptr = fopen(tempname, "a+"); //now txt file is created either for admin or user  
fputs(name, ptr); //in these lines names and password are saved to file  
fprintf(ptr, " %20s", password);  
fclose(ptr);  
char title[] = "Your Account has been created";  
txt_anim(title, sizeof(title));  
line_anim(38);
```

```

        system("cls");

        return;

}

//the logic used is that new password is just written at the last 20 spaces of each respective
account file

//and authentication picks the last 20 space of account file as a passowrd.

void change_pass(int select) {

    line_anim(38);

    char file_name[30], new_pass[35];

    strcpy(file_name, name1);

    if (select == 1)

        strcat(file_name, " admin");

    strcat(file_name, ".txt");

    printf("\n\t%s, enter new password :: ", name1);

    scanf("%s", new_pass);

    printf("\n\tPassword changed succesfully\n");

    system("PAUSE");

    FILE* ptr = fopen(file_name, "a+");

    fprintf(ptr, " %20s", new_pass);

    fclose(ptr);

    if (select == 1)

        admin_menu();

    else if (select == 2)

        user_menu();

}

//this menu just decide and direct the control to other functions accordingly

```

```

void admin_menu() {
    system("cls");

    int choice = 0;

    char c;

    char title[25];

    printf("\n\n\t*****\n");Sleep(500);

    printf("\tYou are Login-in as admin: \t\n\t| 1. Add Movies\t\t\t| \n\t| 2. Show all Movies
\t\t| \n\t| 3. Delete Movies \t\t| \n\t| 4. Log-out \t\t\t| \n\t| 5. Change password\t\t| \n\t| 6.
Exit\t\t\t|");Sleep(500);

    printf("\n\t***** \n\tEnter your choioce : ");Sleep(500);

    scanf("%d", &choice);

    switch (choice)
    {
    case 1:
        addMov();

        break;

    case 2:
        buy_ticket(1);//this function only shows administrator movie

        break;

    case 3:
        system("cls");

        char itl[] = "Note :: !!ALL THE MOVIES WILL BE DELETED\n\t Do you stil want to
delete (y/n): ";

        txt_anim(itl, sizeof(itl));

        do {

            getc(stdin);

            scanf("%c", &c);

```

```

        switch (c) {
        case 'y':
            remove("Movies.txt");
            printf("\tDeleted Movies Successfully : \n");
            break;
        case 'n':
            break;
        default:
            printf("Please select (y) or (n)! ");
        }
    } while (c != 'n' && c != 'y');
    system("PAUSE");
    admin_menu();
case 4:
    system("cls");
    char title[] = "YOU ARE LOGGED-OUT SUCCESSFULLY";
    txt_anim(title, sizeof(title));
    main();
case 5:
    change_pass(1);
    break;
case 6:
    close();
default:
    printf("\t!!Selection out of list.");Sleep(1500);

```

```

        break;

    }

    return;
}

//this menu just decide and direct the control to other functions accordingly
void user_menu() {

    system("cls");

    line_anim(38);

    int choice = 0, seat = 0;

    printf("\n\n\t*****\n");Sleep(500);

    printf("\tYou are Login-in as User: \t\n\t| 1. Buy Movie ticket\t\t\n\t| 2. Return Movie
ticket \t\n\t| 3. Change password \t\t\n\t| 4. Log-out\t\t\t\n\t| 5. Exit\t\t\t");Sleep(500);

    printf("\n\t***** \n\tEnter your choioce : ");Sleep(500);

    scanf("%d", &choice);

    switch (choice)
    {

    case 1:

        buy_ticket(2);

    case 2:

        printf("\t%s Please Enter movie number : ", name1);

        scanf("%d", &choice);

        printf("\t%s Please Enter Seat number : ", name1, seat);

        scanf("%d", &seat);

        seatno(choice, seat);

        printf("\t%s, your Seat No %d for Movie No: %d has been cancelled. \n", name1,

```

```

seat, choice);

        system("PAUSE");

        system("cls");

        user_menu();

    case 3:

        change_pass(2);//the control is again directed to the user menu after changing
passowrd

    case 4:

        system("cls");

        main();

    case 5:

        close();

    default:

        break;

    }

}

```

```

void line_anim(int num) {

    printf("\n");

    for (int i = 0; i < num; i++) {

        printf("+--"); Sleep(80);

    }

    printf("\n");

}

```

```

void txt_anim(char* ptr, int size) {

```

```
    for (int i = 0; i < size; i++) {  
        printf("%c", ptr[i]);  
        Sleep(60);  
    }  
    return;  
}
```

```
void close(void) {  
    printf("\t!!Existing program\n");  
    system("PAUSE");  
    exit(0);  
}
```

```
//The End:)
```