PROJECT NAME

MOVIES IN CITY



PROJECT NUMBER

BRANCH ROLL NO. NAME S NO. 23P81A0531 **CSE A AKASH REDDY K** 23P81A0544 **KRUSHITH N CSE A** 3. PARTHIV KUMAR K 23P81A0530 **CSE A SANTHI SRI P** 4. 23P81A05C0 **CSE B** 23P81A05B3 **5**. **SNEHITH M CSE B**



SOFTWARE USED

DEV C++



OPERATING SYSTEM

DOCUMENTATION

Save details of atleast 5 theatres in a city in a binary file

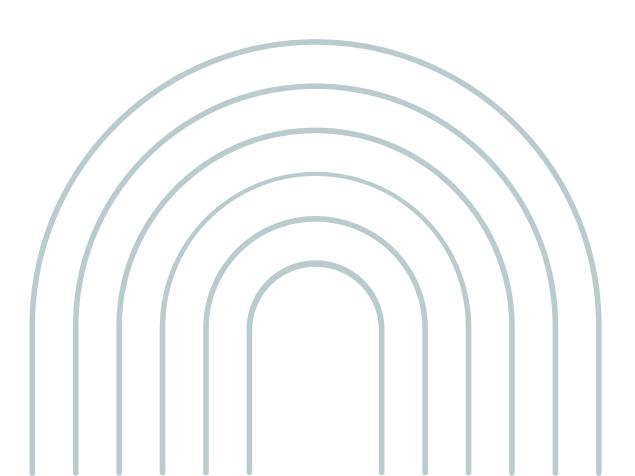
REQUIREMENTS

- 1. Search movies between From to To Date and show all movies, all shows & in all theatres.
- 2. Search Movie for particular date
- 3. List of all theatres



TOPICS COVERED

ARRAYS POINTERS STRUCTURES LOOPS BINARY FILES MENU DRIVE USER DEFINED HEADER FILES DYNAMIC MEMORY ALLOCATION



PROCEDURAL PROGRAMING

- void add_theatres_data()
- void list_of_theatres()
- void movie_available()
- void range_of_dates()
- int main()

STEP 1:Start

STEP 2:Define a structure named "Movie"

Members of the strucure:-

end_year

theatrename -String used to store Theatre name

moviename1 -String used to store movie name.

*showtime1 -Pointers to characters storing showtime1

*showtime2 -Pointers to characters storing showtime2

*showtime3 -Pointers to characters storing showtime3

start_date -Variable used to store start date

start_month -Variable used to store start month

start_year -Variable used to store start year

end_date -Variable used to store end date

end_month -Variable used to store end month

-Variable used to store end year.

STEP 3:add_theatres_data()- User-Defined function is used to add theatre information and movies.

STEP 4:list_of_theatres()- User-Defined function to display a list of all theatres.

STEP 5:movie_available()- User-Defined function to find movies available on a particular date.

STEP 6:range_of_dates()- User-Defined function to find movies available in a date range.

STEP 7:In the main function, display then menu

STEP 8:Enter the choice

STEP 9: IF(choice==1), goto 15,else10

STEP 10:IF(choice==2), goto 20,else11

STEP 11:IF(choice==3), goto 23, else12

STEP 12:IF(choice==4), goto 27,else13

STEP 13:IF(choice==5), Free all the showtime values & goto31

STEP 14:IF(default), print "Your choice doesn't match.", goto 8.

STEP 15:In the add_theatres_data() function:

Open a binary file in append mode ("ab+") to store theatre's information.

stee 17, goto 8, else 17, STEP 16:If(NULL), print"Error in opening file", goto 8

STEP 17:Enter number of theaher you want to add.

STEP 18:Dynamically allocate memory for showtime strings.

STEP 19:Take input for theatre details from the user and write to the file.

STEP 20: Close the file, goto 8.

STEP 21:In the list_of_theatres() function:

Open the binary file in read mode ("rb+").

soto 8, else 23, goto 8, else 23; goto 8, else 23; STEP 22:If(NULL)

STEP 23:Read and print details of each theatre from the file.

STEP 24:Close the file, goto 8.

STEP 25:In the movie_available() function:

Open the binary file in read and write mode ("rb+").

soto 8, else 27, goto 8, else 27, STEP 26:If(NULL), print"Error in opening file

STEP 27: Take input for a particular search date from the user (in DD MM YYYY).

STEP 28:Search for movies available on the specified date and print details.

STEP 29:Close file, goto 8.

STEP 30:In the range_of_dates() function:

Open the binary file in read and write mode ("rb+").

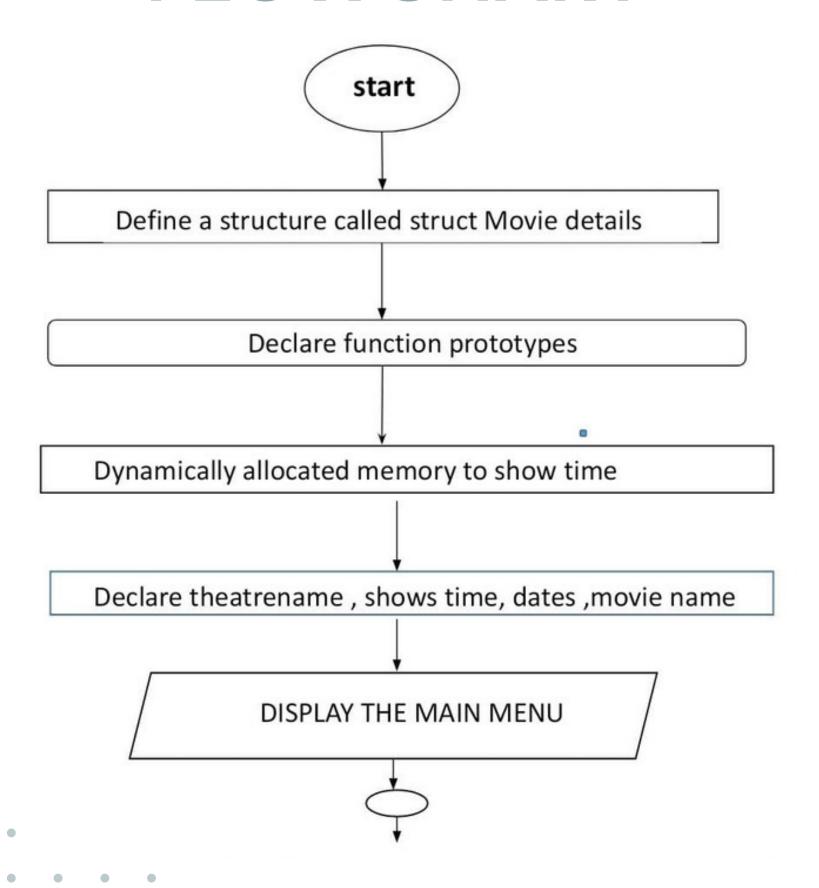
soto 8, else 32. [9], STEP 31:If(NULL) ,print"Error in opening file",goto 8

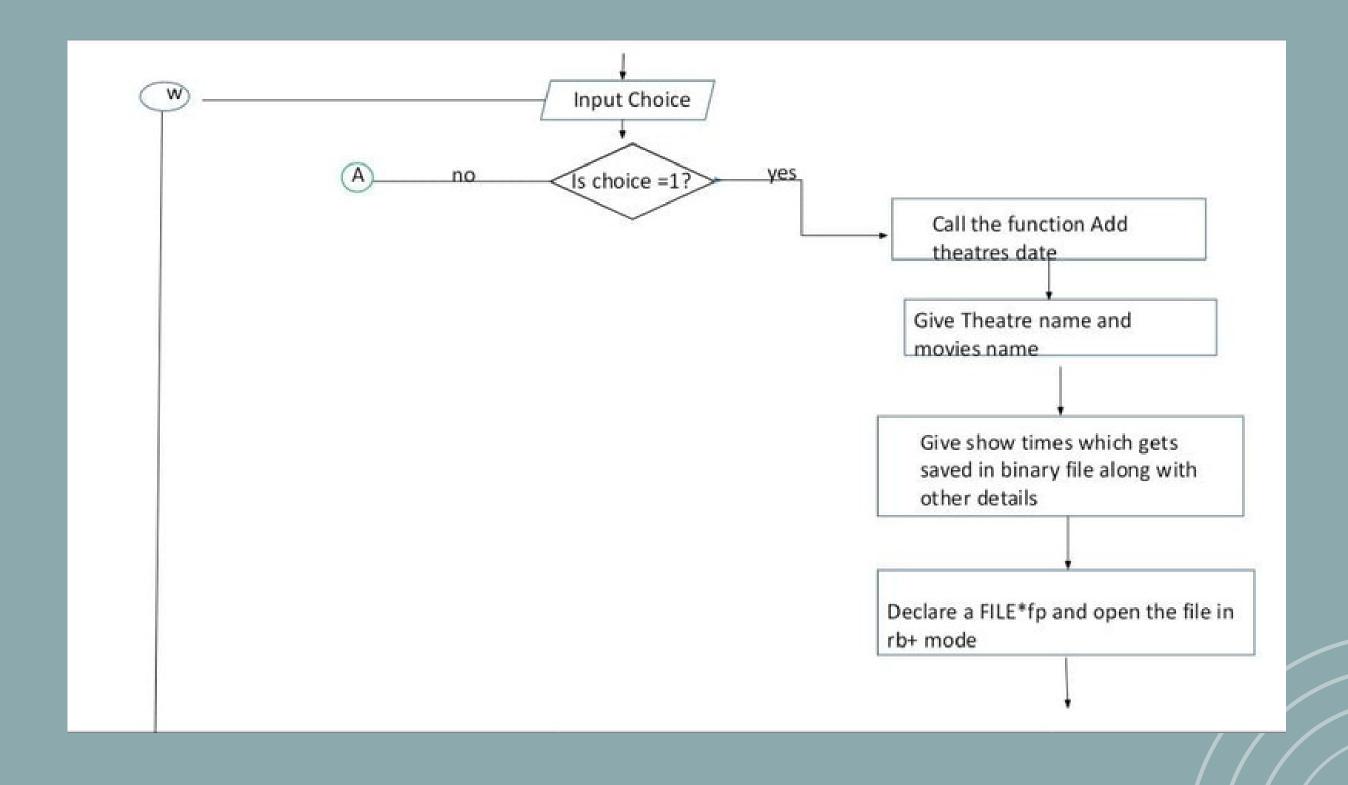
STEP 32:Take input for start and stop range of dates from the user.

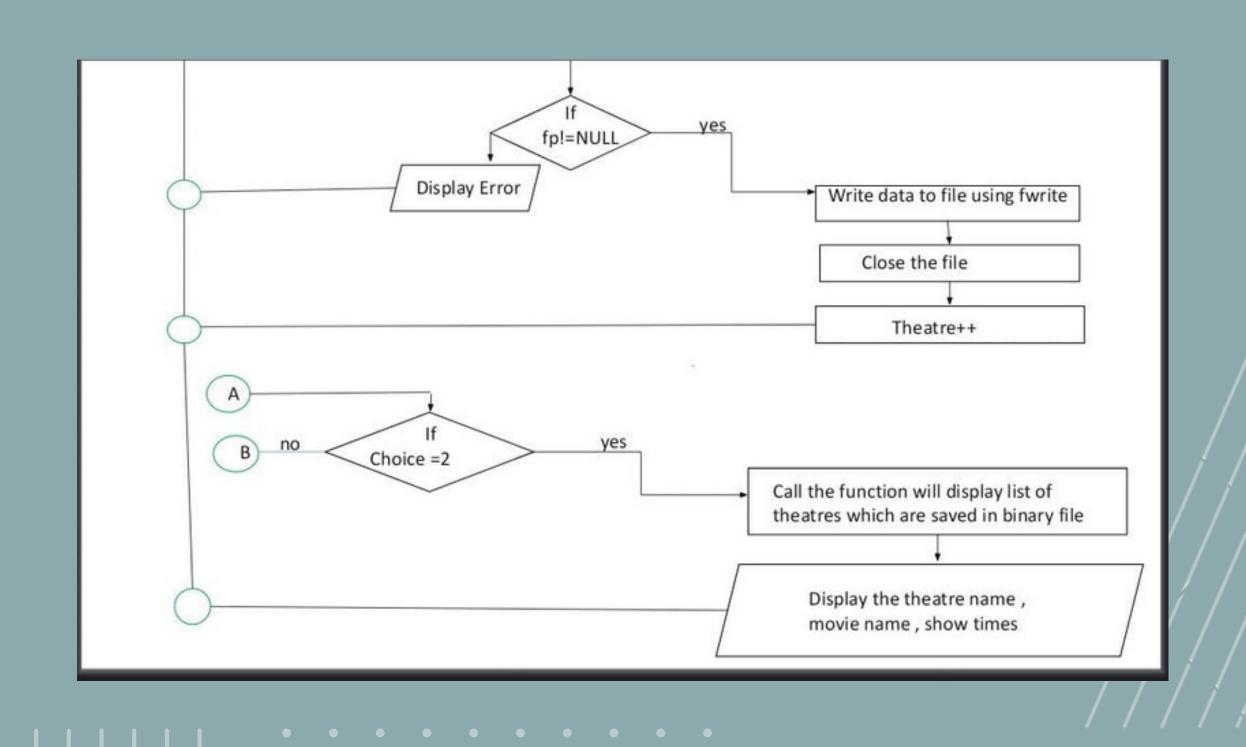
STEP 33:Search for movies available in the specified date range and print details.

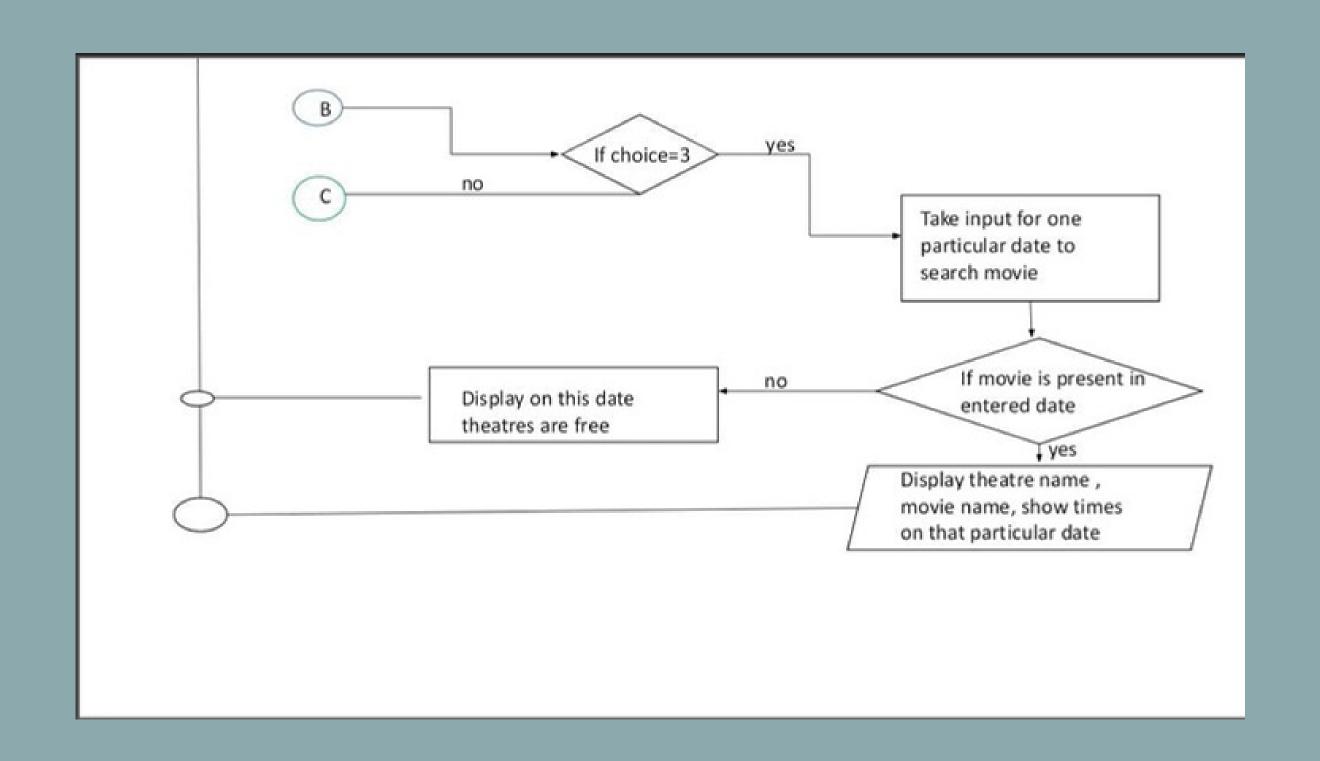
STEP 34:Close the file, goto 8.

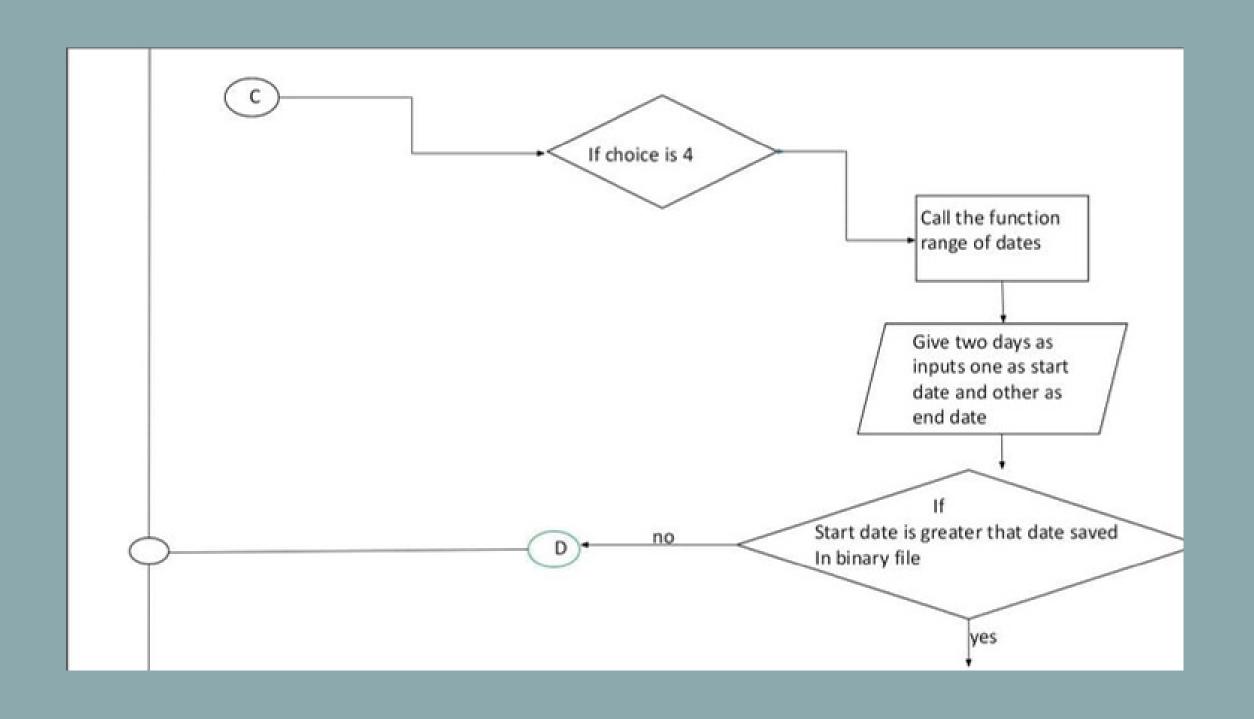
STEP 35:STOP

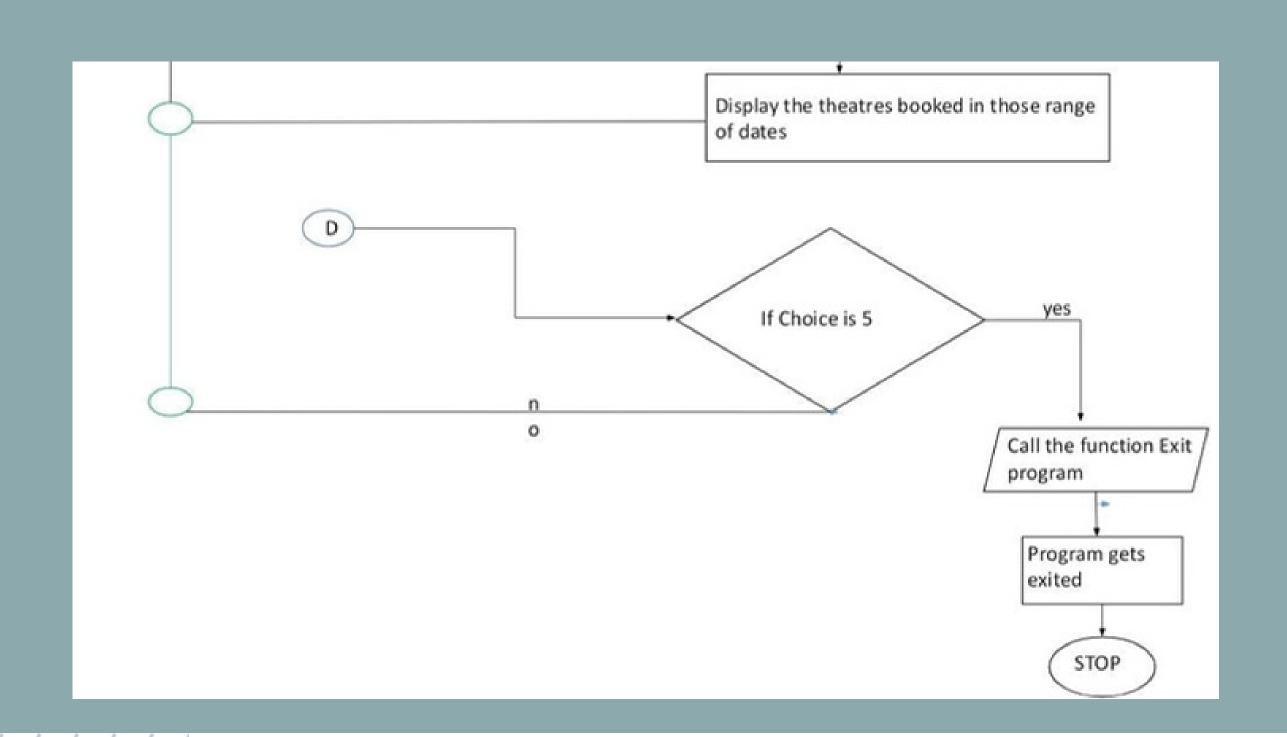












MAIN MENU

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
struct Movie {
    char theatrename[100];
    char moviename1[100];
    char *showtime1; // HH:MM
    char *showtime2;
   char *showtime3;
    int start_date;
    int start_month;
    int start_year; // DD-MM-YYYYY
    int end_date;
    int end_month;
    int end_year;
} details;
```

```
void add_theatres_data();
void list_of_theatres();
void movie_available();
void range_of_dates();
int main() {
   int choice;
   do {
       printf("\t\t\t\t\t***** Movies in a city*****\n");
       printf("\t\t\t\t\t1. Add theatres list\n");
       printf("\t\t\t\t\t2. List of all theatres\n");
       printf("\t\t\t\t\t3. Movies available on a particular date\n");
       printf("\t\t\t\t\t4. Movies available in a date range\n");
       printf("\t\t\t\t\t5. Exit the program\n");
       printf("\t\t\t\tEnter your choice: ");
       scanf("\t\t\t\t\t\t\d", &choice);
```

```
switch (choice) {
    case 1:
        add_theatres_data();
        break;
    case 2:
        list_of_theatres();
        break;
    case 3:
        movie_available();
        break;
    case 4:
        range_of_dates();
        break;
   case 5:
        printf("Exit the program.\n");
        break;
    default:
        printf("Your choice doesn't match.\n");
        break;
```

```
} while (choice != 5);
// Don't forget to free allocated memory
free(details.showtime1);
free(details.showtime2);
free(details.showtime3);
return 0;
```

```
void add_theatres_data() {
   int i, num;
   FILE *fp;

   fp = fopen("ww.bin", "ab+");
   if (fp == NULL) {
      printf("ERROR..! File cannot be opened.\n");
      return;
   }

   printf("Enter the number of theatres: ");
   scanf("%d", &num);
```

```
for (i = 0; i < num; i++) {
    struct Movie details;
   details.showtime1 = (char *)malloc(6 * sizeof(char));
   details.showtime2 = (char *)malloc(6 * sizeof(char));
   details.showtime3 = (char *)malloc(6 * sizeof(char));
   printf("\nEnter theatre name: ");
   fflush(stdin); // Clear input buffer
   gets(details.theatrename);
   printf("Enter the date of movie coming into theatre (DD MM YYYY): ");
    scanf("%d %d %d", &details.start_date, &details.start_month, &details.start_year);
    printf("Enter the date of movie going out from theatre (DD MM YYYY): ");
    scanf("%d %d %d", &details.end_date, &details.end_month, &details.end_year);
   printf("Enter movie name 1: ");
   fflush(stdin); // Clear input buffer
    gets(details.moviename1);
```

```
printf("\nShow 1 is at: ");
    fflush(stdin); // Clear input buffer
    gets(details.showtime1);
    printf("Show 2 is at: ");
    fflush(stdin); // Clear input buffer
    gets(details.showtime2);
    printf("Show 3 is at: ");
    fflush(stdin); // Clear input buffer
    gets(details.showtime3);
    fwrite(&details, sizeof(struct Movie), 1, fp);
fclose(fp);
printf("\nYou entered data is stored successfully.\n");
```

```
CODE
```

```
void list_of_theatres() {
   FILE *fp;
   fp = fopen("ww.bin", "ab+");
   if (fp -- NULL) (
       printf("ERROR..! File cannot be opened.\n");
       neturn:
   while (fread(&details, sizeof(struct Movie), 1, fp) == 1) {
       printf("\n");
       printf("Theatre name: %s\n", details.theatrename);
       printf("RUNNING DAYs Xd-Xd-Xd TO Xd-Xd-Xd\n", details.start_date, details.start_month, details.start_year, details.end_date, details.end_month, details.end_year);
       printf("Movie name is:%s\n", details.moviename1);
       printf("Show 1 is at %s\t", details.showtime1);
       printf("Show 2 is at %s\t", details.showtime2);
       printf("Show 3 is at %s\t", details.showtime3);
       printf("\n \n");
       printf("----\n");
   fclose(fp);
```

```
void movie_available() (
   FILE "fp:
   struct Movie id:
   int searchdate, searchmonth, searchyear;
   printf("Enter the particular date to find the movie (DD MM YYYY): ");
   scanf("%d %d %d", &searchdate, &searchmonth, &searchyear);
   fp = fopen("ww.bin", "rb+");
   if (fp == NULL) {
       printf("ERROR..! File cannot be opened.\n");
       return;
   while (fread(&id, sizeof(struct Movie), 1, fp) == 1) (
       if (id.start_date <- searchdate && searchdate <- id.end_date && id.start_wear <- searchyear <- searchyear <- searchyear <- id.start_year) (
          printf("\nTheatre name: %s", id.theatrename);
          printf("\nMovie name: %s", id.moviename1);
           printf("RUNNING DAYS Xd-Xd-Xd TO Xd-Xd-Xd\n", details.start_date, details.start_month, details.start_year, details.end_date, details.end_month, details.end_year);
          printf("\nShow 1 is at %s\t", id.showtime1);
          printf("\nShow 2 is at %s\t", id.showtime2);
          printf("\nShow 3 is at %s\t\n", id.showtime3);
          puts("....");
   fclose(fp):
```



```
void range_of_dates() {
   FILE "fp:
   int startdt, stopdt, startmon, startyr, stopmon, stopyr;
   struct Movie id:
   printf("Enter the start range (DD MM YYYY): ");
   scanf("Xd Xd Xd", &startdt, &startmon, &startyr);
   printf("Enter the stop range (DD MM YYYY): ");
   scanf("Xd Xd Xd", &stopdt, &stopmon, &stopyr);
   fp = fopen("ww.bin", "rb+");
   if (fp == NULL) {
       printf("ERROR..! File cannot be opened.\n");
       return;
   while (fread(8id, sizeof(struct Movie), 1, fp) == 1) {
       if ((startdt >= id.start_date) ){
           printf("\nTheatre name: %s\n", id.theatrename);
           printf("\nMovie name: %s\n", id.moviename1);
           printf("RUNNING DAYs %d-%d-%d TO %d-%d-%d\n", details.start_date, details.start_year, details.end_date, details.end_month, details.end_year);
           printf("\nShow 1 is at %s\t", id.showtime1);
           printf("\nShow 2 is at %s\t", id.showtime2);
           printf("\nShow 3 is at %s\t", id.showtime3);
           printf("\n-----\n");
   fclose(fp):
```

```
Enter your choice: 1
Enter the number of theatres: 3
Enter theatre name: IMAX
Enter the date of movie coming into theatre (DD MM YYYY): 22 12 2023
Enter the date of movie going out from theatre (DD MM YYYY): 30 12 2023
Enter movie name 1: SALAAR-THE CEASEFIRE PART-1
Show 1 is at: 2:00PM
Show 2 is at: 6:00PM
Show 3 is at: 10:00PM
Enter theatre name: AMB
Enter the date of movie coming into theatre (DD MM YYYY): 22 12 2023
Enter the date of movie going out from theatre (DD MM YYYY): 30 12 2023
Enter movie name 1: DUNKI
Show 1 is at: 10:00AM
Show 2 is at: 2:00PM
Show 3 is at: 10:00PM
Enter theatre name: SANDHYA 70MM
Enter the date of movie coming into theatre (DD MM YYYY): 23 12 2023
Enter the date of movie going out from theatre (DD MM YYYY): 30 12 2023
```

```
Enter your choice: 2
Theatre name: IMAX
RUNNING DAYS 22-12-2023 TO 30-12-2023
Movie name is:SALAAR-THE CEASEFIRE PART-1
Show 1 is at 2:00PM Show 2 is at 6:00PM Show 3 is at 10:00PM
Theatre name: AMB
RUNNING DAYS 22-12-2023 TO 30-12-2023
Movie name is:DUNKI
Show 1 is at 10:00AM Show 2 is at 2:00PM Show 3 is at 10:00PM
Theatre name: SANDHYA 70MM
RUNNING DAYS 23-12-2023 TO 30-12-2023
Movie name is:SALAAR THE CEASEFIRE PART-1
Show 1 is at 10:00AM Show 2 is at 2:00PM Show 3 is at 6:00PM
```

```
C:\Users\USER\OneDrive\Desktop\folders of project\PROJECT 5.0.exe
Enter the particular date to find the movie (DD MM YYYY): 25 12 2023
Theatre name: IMAX
Movie name: SALAAR-THE CEASEFIRE PART-1
Show 1 is at 2:00PM
Show 2 is at 6:00PM
Show 3 is at 10:00PM
Theatre name: AMB
Movie name: DUNKI
Show 1 is at 10:00AM
Show 2 is at 2:00PM
Show 3 is at 10:00PM
Theatre name: SANDHYA 70MM
Movie name: SALAAR THE CEASEFIRE PART-1
Show 1 is at 10:00AM
Show 2 is at 2:00PM
Show 3 is at 6:00PM
```

```
Enter your choice: 4
Enter the start range (DD MM YYYY): 22 12 2023
Enter the stop range (DD MM YYYY): 30 12 2023
Theatre name: IMAX
Movie name: SALAAE-THE CEASE FIRE
Show 1 is at 2:00PM
Show 2 is at 6:00PM
Show 3 is at 10:00PM
Theatre name: AMB
Movie name: DUNKI
Show 1 is at 10:00AM
Show 2 is at 2:00PM
Show 3 is at 6:00PM
```

DEMONSTRATION

int main()

void add_theatres_data - Santhi

void list_of_theatres()

void movie_available() - Snehith

void range_of_dates()

- Akash

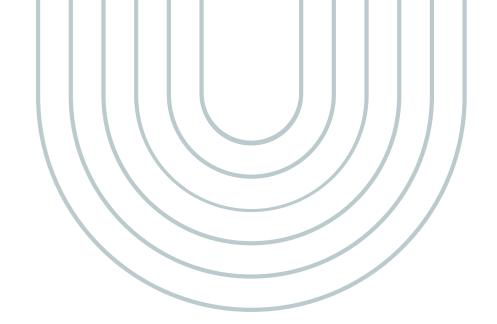
- Parthiv

- Krushith

IMPROVEMENTS &CONCLUSION

In addition, we can add the details of selecting:

- Payment methods(Offline or Online)
- Seat numbers



ANY QUESTIONS?

THANK YOU!