



Tribhuvan University  
Institute of Engineering  
Purwanchal Campus  
पूर्वाञ्चल क्याम्पस



# EASTERN CINEPLEX

–CUI based C–project

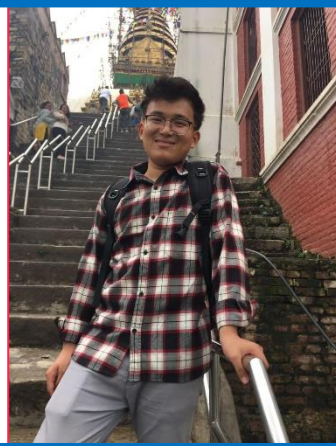
A C–project submission for First Semester/First Year

Bachelor 's in Electronics, Communication and  
Information Engineering

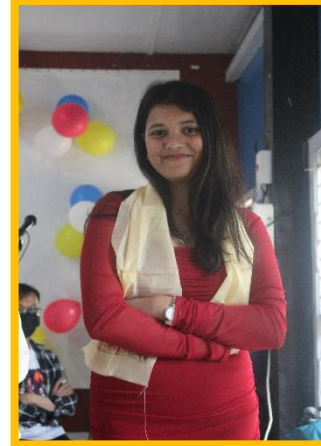
# OUR TEAM MEMBERS



**Prashan Chenta Rai**  
080BEI030



**Dhiraj Bikram Rai**  
080BEI017



**Sneha Karna**  
080BEI042



**Abhishek Niraula**  
080BEI004



**EASTERN CINEPLEX** is a movie ticket booking project developed as a part of assessment for first semester electronics/computer engineering by ACES.

- AI generated image.



## Our Features:

- CUI based approach to a movie ticketing system.
- Admin level control and user level access.
- Organized program flow between systems.
- Database like approach to data handling.
- Multi-functional use of file handling and structures in C.

# PROGRAM DESCRIPTION

## Function Prototypes:

```
// For user side of things.
int user_interface(char[]);
int see_shows(void);
int see_movies(int, char[]);
int display_seats(int[], int);
int book_seats(char[]);
int cineplex_info(void);
int logout(void);

// For admin side of things
int admin_interface();
int view_current_shows();
int edit_movies();
int edit_price();
int view_reservation();
int see_reservation(char[]);
int view_balance();

// Login part
int registerUser();
int loginUser();
int admin_login();
```

## Structure in C:

```
struct movie
{
    char name[30];
    int starting_time;
    int length;
    int screening_day;
    char screening_month[8];
    char genre[40];
    char director[50];
    int seats[MAX_SEATS];
    int num_seats;
};

struct reservation
{
    char movies[30];
    char name[40];
    int seats[MAX_SEATS];
    int num_seats;
    int balance;
};

struct reservation reserve[100];

struct movie film[5] = {
    {"Avengers: Endgame", 2, 180, 28, "April", "action, drama", "Russo Brothers", {0}, 60},
    {"Inception", 5, 148, 29, "April", "Sci-fi, adventure", "Christopher Nolan", {0}, 60},
    {"FightClub", 8, 139, 29, "April", "Drama", "David Fincher", {0}, 60},
    {"Tumbbad", 6, 104, 28, "April", "Fantasy, Horror, Drama", "Rahi Anil Barve", {0}, 60},
    {"Whiplash", 2, 106, 30, "April", "Drama, Music", "Damien Cazelle", {0}, 60}
};
```

## Standard Libraries:

```
// Definition of standard libraries.
#include <stdio.h>
#include <stdbool.h>
#include <string.h>
#include <math.h>
#include <conio.h>
```

# Program Output:

## User Terminal:

```
.....

WELCOME TO Eastern CinePlex
PLEASE SELECT...
1) ADMIN LOGIN
2) USER REGISTRATION
3) USER LOGIN
4) EXIT SYSTEM

.....

Enter your choice : 3

.....

WELCOME TO LOGIN PAGE
ENTER USERNAME: Abhishek
ENTER PASSWORD: Niraula

LOGIN SUCCESSFUL

.....

WELCOME --Abhishek--
PLEASE SELECT...
1)OUR AVAILABLE SHOWS
2)INFO ABOUT OUR CINEPLEX
3)LOGOUT
4)EXIT
.....
```

```
.....

WELCOME --Abhishek--
PLEASE SELECT...
1)OUR AVAILABLE SHOWS
2)INFO ABOUT OUR CINEPLEX
3)LOGOUT
4)EXIT

.....

Enter your choice : 1

.....

PLEASE SELECT FROM THE AVAILABLE SHOWS HERE
1) 29'th of April
2) 28'th of April
3) 30'th of April
4) EXIT

.....

Enter your choice : 2

.....

SHOW: 28'th of April
PLEASE SELECT AVAILABLE MOVIES..
1) Avengers: Endgame: FROM 2PM to 5PM
   Directed By: Russo Brothers
   Genre: action, drama
2) Tumbbad: FROM 6PM to 7:44PM
   Directed By: Rahi Anil Barve
   Genre: Fantasy, Horror, Drama
3) Exit

.....
```

```
.....

SHOW: 28'th of April
PLEASE SELECT AVAILABLE MOVIES..
1) Avengers: Endgame: FROM 2PM to 5PM
   Directed By: Russo Brothers
   Genre: action, drama
2) Tumbbad: FROM 6PM to 7:44PM
   Directed By: Rahi Anil Barve
   Genre: Fantasy, Horror, Drama
3) Exit

.....

Enter your choice : 2

.....

Tumbbad
Directed By: Rahi Anil Barve
Genre: Fantasy, Horror, Drama
The current price of the ticket is: 500

Available Seats:

1    2    3    4    5    6    7    8    9    10
11   12   13   14   15   16   17   18   19   20
21   22   23   24   25   26   27   28   29   30
31   32   33   34   35   36   37   38   39   40
41   42   43   44   45   46   47   48   49   50
51   52   53   54   55   56   57   58   59   60

.....

Enter the number of tickets: 4
Are you sure you want to purchase tickets?(Y/N)
y
Enter the seat numbers:
4
3
1
2

.....

Eastern CinePlex
Langali Chowk, Dharan
Film: Tumbbad
Your total billed price (including taxes) will be: NRS.2000
Tickets booked successfully -- Abhishek!
```

# Program Output:

## Admin Terminal :

```
.....

WELCOME TO Eastern CinePlex
PLEASE SELECT...
1) ADMIN LOGIN
2) USER REGISTRATION
3) USER LOGIN
4) EXIT SYSTEM

.....

Enter your choice : 1

.....

WELCOME TO ADMIN LOGIN PAGE

Enter your username:  Abhishek

Enter your password:  pass

You are logged in successfully!!!

.....
```

```
.....

Welcome -- Abhishek--
1) Edit movies and their details
2) Edit price of the ticket
3) View current shows
4) View Reservation
5) View Earnings
6) Logout
7) Exit

.....

Enter your choice : 4

.....

VIEW_RESERVATION
Current Movies Are:
1) Avengers: Endgame
2) Inception
3) FightClub
4) Tumbbad
5) Whiplash
6) LOGOUT
7) EXIT

.....

Enter your choice : 4

.....

VIEWING RESERVATION FOR --Tumbbad--
1) Abhishek has booked seat no. :      1      2      3      4

.....
```

```
.....

Welcome -- Abhishek--
1) Edit movies and their details
2) Edit price of the ticket
3) View current shows
4) View Reservation
5) View Earnings
6) Logout
7) Exit

.....

Enter your choice : 2

.....

Eastern CinePlex
Edit the price of the ticket
The current price of the ticket is 500
Enter the new price of ticket:  700

Are you sure you want to change the price?(Y/N)?      y

Price changed successfully!!!
```

# CONCLUSION AND TAKEAWAYS:

- The program at end runs in a infinite looping system and functions well until the user selects to end the program.
- One major problem in the program is:  
All of the changed and edited data is flushed after the user selects to end the program.

## References :

- Use of AI programs to understand project workflow and internal logics for some part.
  - [www.geeksforgeeks.org](http://www.geeksforgeeks.org)
  - [www.stackoverflow.com](http://www.stackoverflow.com)
  - [www.github.com](http://www.github.com)
- 
- A large, solid yellow curved shape located in the bottom right corner of the slide, extending from the right edge towards the center.