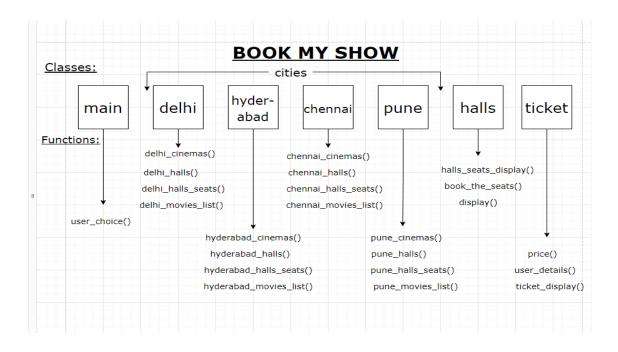
BOOK MY SHOW

FLOWCHART OF SYSTEM



BRIEF DESCRIPTION OF EACH CLASS & FUNCTION

- 1. Class main -
- ask the user about its cities choice
- cordinate with other cities classes
- •friend of cities classes

user_choice() - function asks the user its cities choice .

2. Class delhi -

 contains all the information about Delhi cinemas, halls and movies.

delhi_cinemas() - displays all Delhi cinemas to user .
delhi_halls() - displays all the Delhi halls to user.
delhi_halls_seats()delhi_movies_list()- displays all the movies in the user preferred hall
and cinema .

3. Class hyderabad-

• contains all the information about Hyderabad cinemas , halls and movies.

hyderabad_cinemas() - displays all Hyderabad cinemas to user . hyderabad_halls() - displays all the Hyderabad halls to user. hyderabad_halls_seats()-hyderabad_movies_list()- displays all the movies in the user preferred hall and cinema .

4. Class chennai-

 contains all the information about Chennai cinemas, halls and movies.

chennai_cinemas() - displays all Chennai cinemas to user . chennai_halls() - displays all the Chennai halls to user.

chennai_halls_seats()chennai_movies_list()- displays all the movies in the user preferred
hall and cinema.

5. Class pune-

• contains all the information about Pune cinemas, halls and movies.

pune_cinemas() - displays all Pune cinemas to user .
pune_halls() - displays all the Pune halls to user.
pune_halls_seats()pune_movies_list()- displays all the movies in the user preferred hall and cinema .

6. Class halls-

•contains the hall seat matrix & function to book the seats and display the hall seats .

halls_seats_display() - displays the hall seats matrix and ask the user which seats to book.

book_the_seats()-book the user choice seats in the hall . display() - displays the hall seat matrix after booking the user seats.

7. Class ticket -

• displays the price of the tickets, ask for user details and book the ticket for the user and then display it.

price() - displays the price of the tickets to the user.
user_details()- ask the user its details .
ticket_display()-book the ticket for the user and then display it .

PROGRAM CODE

```
#include<bits/stdc++.h>
using namespace std;
class main{
     private
          int user choice;
     public:
          void cities choice(){
       cout<<"\n\n\t\t\t\t\t\t\t SELECT YOUR PREFERRED CITY
FOR MOVIE."
       cout<<"\n\n\t\t\t\t\t\t\t\->PRESS 1 TO BOOK TICKET IN
DELHI":
       cout<<"\n\n\t\t\t\t\t\t\t\->PRESS 2 TO BOOK TICKET IN
HYDERABAD"
       cout<<"\n\n\t\t\t\t\t\t\t\->PRESS 3 TO BOOK TICKET IN
CHENNAI"
       cout<<"\n\n\t\t\t\t\t\t\t\->PRESS 4 TO BOOK TICKET IN
PUNE":
       cout<<"\n\n\t\t\t\t\t\t\t TO EXIT, PRESS 0 ";
       cout<<"\n\n\t\t\t\t\t\t\t ENTER YOUR CHOICE : ";
       cin>>user choice;
          }
          void city_display();
friend class delhi:
friend class hyderabad;
friend class chennai:
friend class pune;
};
main u1;
class delhi{
     private
          int delhi cinema choice;
          int delhi hall choice;
          string delhi cinema name;
```

```
string delhi hall name;
          string movie_name;
          int delhi movie choice;
     public:
          void delhi cinemas();
          void delhi halls(int);
          void delhi halls seats(int);
          void delhi movies list();
};
class hyderabad{
     private
          int hyderabad cinema choice;
          int hyderabad hall choice;
          string hyderabad cinema name;
          string hyderabad hall name;
          string movie name;
          int hyderabad movie choice;
     public:
          void hyderabad cinemas();
          void hyderabad halls(int);
          void hyderabad_halls_seats(int);
          void hyderabad_movies_list();
};
class chennai{
     private:
          int chennai cinema choice;
          int chennai hall choice;
          string chennai_cinema_name;
          string chennai hall name;
          int chennai movie choice;
          string movie name;
     public:
          void chennai cinemas();
```

```
void chennai halls(int);
          void chennai_halls_seats(int);
          void chennai movies list();
};
class pune{
     private:
          int pune_cinema_choice;
          int pune hall choice;
          string pune cinema name;
          string pune hall name;
          int pune movie choice;
          string movie name;
     public:
          void pune cinemas();
          void pune halls(int);
          void pune_halls_seats(int);
          void pune movies list();
};
class ticket{
     public:
          string user_choice_hall_name;
          string user choice movie name;
          string user choice cinema name;
          string user choice city name;
          string user choice time;
          int user choice no of seats;
          string first name;
          string last name;
          string show time;
          string show date;
          void price();
          void user details();
          void ticket display();
```

```
};
ticket t1;
class halls{
     public:
     int seats[12][12];
     int no of seats;
    int seat number;
     void halls seats display();
     void book the seats(int);
     void display();
     halls(){
               for(int i=0;i<9;i++){
                  for(int j=0; j<9; j++){
                     seats[i][j]=(i+1)*10+(j+1);
};
halls ha1;
void delhi::delhi_halls(int delhi_cinema_choice){
     t1.user choice city name="DELHI";
     switch(delhi_cinema_choice){
          case 1: {
               delhi cinema name="PVR PLAZA CINEMA";
                break;
          }
          case 2:{
               delhi_cinema_name="DLF CINEMA";
               break:
          case 3:{
               delhi cinema name="AMBA CINEMA";
```

```
break
          case 4:{
              delhi cinema name="GOLD CINEMA";
               break:
          case 0:{
              exit(0);
               break;
          default : cout<<"PLEASE ENTER A VALID
NUMBER!"<<endl;
    }
    system("clear");
    t1.user choice cinema name = delhi cinema name;
     cout<<"\n\n\t\t\t\t\t\t\t\tYOUR PREFERRED CINEMA IS
"<<delhi cinema name << " IN DELHI. "<<endl;
     cout<<"\n\n\t\t\t\t\t\t\t\t\t SELECT YOUR PREFERRED HALL
FOR MOVIE.":
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 1 TO BOOK TICKET IN HALL
A":
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 2 TO BOOK TICKET IN HALL
B";
  cout<<"\n\n\t\t\t\t\t\t TO EXIT, PRESS 0 ";
  cout<<"\n\n\t\t\t\t\t\t\t ENTER YOUR CHOICE : ";
  cin>>delhi hall choice;
  switch(delhi hall choice){
    case 1:{
          delhi hall name="A";
          break:
    case 2:{
          delhi hall name="B";
          break;
```

```
case 0:{
         exit(0);
         break;
    default : cout << "PLEASE ENTER A VALID CHOICE
!"<<endl;
    }
    system("clear");
    t1.user_choice_hall_name=delhi_hall_name;
  cout<<"\n\n\t\t\t\t\t\tYOUR PREFERRED HALL IS HALL
"<<delhi hall name <<" in "<<delhi cinema name<<",
DELHI."<<endl<
  delhi movies list();
}
void delhi::delhi halls seats(int delhi movie choice){
    switch(delhi movie choice){
         case 1: {
              movie name = "SPIDER-MAN:NO WAY HOME";
              t1.show date="20210101";
              t1.show time="09:00AM";
              break:
         case 2: {
              movie name = "WEST SIDE STORY";
              t1.show date="20210101";
              t1.show time="12:00PM";
              break
         }
         case 3: {
              movie name = "CLIFFORD THE BIG RED DOG";
              t1.show_date="20210101";
              t1.show time="03:00PM";
              break;
```

```
case 4: {
             movie name = "ENCANTO";
             t1.show date="20210101";
             t1.show time="06:00PM";
              break:
         case 0:{
             exit(0);
              break;
         default : cout<<"PLEASE ENTER A VALID NUMBER!";
    }
    system("clear");
    cout<<"\n\n\t\t\t\t\t\t\tYOUR PREFERRED HALL IS HALL
"<<delhi hall name <<" in "<<delhi cinema name<<",
DELHI."<<endl;
    t1.user choice movie name=movie name;
    cout<<"\n\t\t\t\t\t\t\tYOUR PREFERRED MOVIE IS
"<<movie name<<".";
    ha1.halls seats display();
}
void delhi::delhi movies list(){
    cout<<"\n\n\t\t\t\t\t\t\tMOVIES LIST IN HALL
"<<delhi hall name<<" IN "<<delhi cinema name<<",
DELHI."<<endl:
    cout<<endl<<"\n\n\t\t\t\t\t\t\tDATE: "<<"01 JAN 2021
"<<endl:
  cout<<endl<<"\n\n\t\t\t\t\t\t\t\t\t. SPIDER-MAN:NO WAY HOME
AM - 12:00 PM "<<endl;
    cout<<endl<<"\n\n\t\t\t\t\t\t\t\t2. WEST SIDE STORY (GENRE:
Drama) "<<endl<<" \n\t\t\t\t\t\t\t\t\t\ TIMING: 12:00 PM -
3:00 PM "<<endl;
```

```
cout<<endl<<"\n\n\t\t\t\t\t\t\t\t\t\3. CLIFFORD THE BIG RED
TIMING: 3:00 PM - 6:00 PM "<<endl;
    cout<<endl<<"\n\n\t\t\t\t\t\t\t.ENCANTO (GENRE:
Animation) "<<endl<<" \n\t\t\t\t\t\t\t\t\t\t\-
9:00 PM "<<endl:
    cout<<endl<<"\n\n\t\t\t\t\t\t\t\t\tENTER YOUR NUMBER OF
MOVIE: ":
    cin>>delhi movie choice;
    delhi_halls_seats(delhi_movie_choice);
}
void delhi::delhi cinemas(){
    system("clear");
    cout<<"\n\n\t\t\t\t\t\t\t\ WELCOME TO DELHI CINEMAS!
"<<endl:
  cout<<"\n\n\t\t\t\t\t\t\t\SELECT YOUR PREFERRED CINEMA
FOR MOVIE."
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 1 TO BOOK TICKET IN PVR
PLAZA CINEMA"
  cout<<"\n\n\t\t\t\t\t\t\t\->PRESS 2 TO BOOK TICKET IN DLF
CINEMA":
  cout<<"\n\n\t\t\t\t\t\t\t\->PRESS 3 TO BOOK TICKET IN AMBA
CINEMA":
  cout<<"\n\n\t\t\t\t\t\t\t\->PRESS 4 TO BOOK TICKET IN GOLD
CINEMA":
  cout<<"\n\n\t\t\t\t\t\t\t TO EXIT, PRESS 0 ":
  cout<<"\n\n\t\t\t\t\t\t\t\t ENTER YOUR CHOICE : ";
  cin>>delhi cinema choice;
 delhi halls(delhi cinema choice);
delhi d1;
void hyderabad::hyderabad_halls_seats(int
hyderabad movie choice){
```

```
switch(hyderabad movie choice){
         case 1: {
              movie name = "HOUSE OF GUCCI";
              t1.show date="20210101";
              t1.show time="09:00AM";
              break
         case 2: {
              movie name = "SPENCER";
              t1.show date="20210101";
              t1.show_time="12:00PM";
              break
         }
         case 3: {
              movie name = "TOP GUN:MAVERICK";
              t1.show date="20210101";
              t1.show time="03:00PM";
              break;
         case 4: {
              movie name = "LAST NIGHT IN SOHO";
              t1.show date="20210101";
              t1.show time="06:00PM";
              break;
         case 0:{
              exit(0);
              break;
         default : cout<<"PLEASE ENTER A VALID NUMBER!";</pre>
    system("clear");
    cout<<"\n\n\t\t\t\t\t\tYOUR PREFERRED HALL IS HALL
"<<hyderabad_hall_name <<" in "<<hyderabad_cinema_name<<",
HYDERABAD."<<endl;
```

```
t1.user choice movie name=movie name;
    cout<<"\n\t\t\t\t\t\t\t\tYOUR PREFERRED MOVIE IS
"<<movie_name<<".";
    ha1.halls seats display();
void hyderabad::hyderabad movies list(){
    cout<<"\n\n\t\t\t\t\t\t\tMOVIES LIST IN HALL
"<<hyderabad hall name<<" IN "<<hyderabad cinema name<<",
HYDERABAD."<<endl;
    cout<<endl<<"\n\n\t\t\t\t\t\t\tDATE: "<<"01 JAN 2021
"<<endl:
  cout<<endl<<"\n\n\t\t\t\t\t\t\t1. HOUSE OF GUCCI (GENRE :
PM "<<endl;
    cout<<endl<<"\n\n\t\t\t\t\t\t\t\t. SPENCER (GENRE :
PM "<<endl:
    cout<<endl<<"\n\n\t\t\t\t\t\t\t\t...TOP GUN:MAVERICK
TIMING: 3:00 PM - 6:00 PM "<<endl;
    cout<<endl<<"\n\n\t\t\t\t\t\t\t\t. LAST NIGHT IN SOHO
(GENRE: Horror)"<<endl<<" \n\t\t\t\t\t\t\t\ TIMING: 6:00
PM - 9:00 PM "<<endl;
    cout<<endl<<"\n\n\t\t\t\t\t\t\t\tENTER YOUR CHOICE OF
MOVIE: "
    cin>>hyderabad movie choice;
    hyderabad halls seats(hyderabad movie choice);
}
void hyderabad::hyderabad halls(int hyderabad cinema choice){
    t1.user_choice_city_name="HYDERABAD";
    switch(hyderabad cinema choice){
        case 1: {
            hyderabad cinema name="UPSTAGE CINEMA";
            break:
```

```
case 2:{
              hyderabad cinema name="SKYLAB CINEMA";
              break:
         case 3:{
              hyderabad_cinema_name="AMB CINEMA";
              break
         case 4:{
              hyderabad cinema name="RKV CINEMA";
              break:
         case 0:{
              exit(0);
              break:
         default : cout<<"PLEASE ENTER A VALID
NUMBER!"<<endl;
    }
    system("clear");
    t1.user choice cinema name = hyderabad cinema name;
    cout<<"\n\n\t\t\t\t\t\t\tYOUR PREFERRED CINEMA IS
"<<hyderabad cinema name << " IN HYDERABAD. "<<endl;
    cout<<"\n\n\t\t\t\t\t\t\t\t\t SELECT YOUR PREFERRED HALL
FOR MOVIE."
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 1 TO BOOK TICKET IN HALL
A".
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 2 TO BOOK TICKET IN HALL
B";
  cout<<"\n\n\t\t\t\t\t\t TO EXIT, PRESS 0 ";
  cout<<"\n\n\t\t\t\t\t\t ENTER YOUR CHOICE : ":
  cin>>hyderabad hall choice;
  switch(hyderabad_hall_choice){
    case 1:{
```

```
hyderabad_hall_name="A";
         break:
    case 2:{
         hyderabad hall name="B";
         break:
    case 0:{
         exit(0);
         break:
    default : cout<<"PLEASE ENTER A VALID CHOICE
!"<<endl:
    }
    system("clear");
    t1.user choice hall name=hyderabad hall name;
  cout<<"\n\n\t\t\t\t\t\tYOUR PREFERRED HALL IS HALL
"<<hyderabad hall name <<" in "<<hyderabad cinema name<<",
HYDERABAD."<<endl;
  hyderabad movies list();
void hyderabad::hyderabad_cinemas(){
    system("clear");
    cout<<"\n\n\n\t\t\t\t\t\t\t WELCOME TO HYDERABAD
CINEMAS! "<<endl:
  cout<<"\n\n\t\t\t\t\t\t\t SELECT YOUR PREFERRED HALL FOR
MOVIE.":
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 1 TO BOOK TICKET IN
UPSTAGE CINEMA"
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 2 TO BOOK TICKET IN
SKYLAB CINEMA"
  cout<<"\n\n\t\t\t\t\t\t\t\->PRESS 3 TO BOOK TICKET IN AMB
CINEMA"
```

```
cout<<"\n\n\t\t\t\t\t\t\->PRESS 4 TO BOOK TICKET IN RKV
CINEMA";
  cout<<"\n\n\t\t\t\t\t\t TO EXIT, PRESS 0 ";
  cout<<"\n\n\t\t\t\t\t\t\t ENTER YOUR CHOICE: ";
  cin>>hyderabad cinema choice;
  hyderabad halls(hyderabad cinema choice);
hyderabad h1;
void chennai::chennai halls seats(int chennai movie choice){
    switch(chennai movie choice){
         case 1: {
              movie name = "ETERNALS";
              t1.show date="20210101";
              t1.show time="09:00AM";
              break
         case 2: {
              movie name = "HALLOWEEN KILLS";
              t1.show date="20210101";
              t1.show time="12:00PM";
              break
         case 3: {
              movie name = "THE LAST DUEL";
              t1.show date="20210101";
              t1.show_time="03:00PM";
              break
         case 4: {
              movie name = "DUNE";
              t1.show date="20210101";
              t1.show time="06:00PM";
              break:
```

```
case 0:{
              exit(0);
               break:
          default : cout<<"PLEASE ENTER A VALID NUMBER!":
    system("clear");
     cout<<"\n\n\t\t\t\t\t\t\tYOUR PREFERRED HALL IS HALL
"<<chennai hall name <<" in "<<chennai cinema name<<",
CHENNAI."<<endl:
    t1.user choice movie name=movie name;
     cout<<"\n\t\t\t\t\t\t\t\tYOUR PREFERRED MOVIE IS
"<<movie name<<".";
    ha1.halls seats display();
}
void chennai::chennai movies list(){
     cout<<"\n\n\t\t\t\t\t\t\tMOVIES LIST IN HALL
"<<chennai_hall_name<<" IN "<<chennai_cinema_name<<",
CHENNAI."<<endl;
  cout<<endl<<"\n\n\t\t\t\t\t\t\t\tDATE: "<<"01 JAN 2021 "<<endl;
  cout<<endl<<"\n\n\t\t\t\t\t\t\t. ETERNALS (GENRE:
Action)"<<endl<<"\n\t\t\t\t\t\t\t\t\t\ TIMING: 9:00 AM - 12:00
PM "<<endl:
     cout<<endl<<"\n\n\t\t\t\t\t\t\t\t2. HALLOWEEN KILLS
(GENRE: Drama) "<<endl<<" \n\t\t\t\t\t\t\t\ TIMING: 12:00
PM - 3:00 PM "<<endl:
     cout<<endl<<"\n\n\t\t\t\t\t\t\t\t\3. THE LAST DUEL (GENRE:
Drama)"<<endl<<" \n\t\t\t\t\t\t\t TIMING : 3:00 PM - 6:00
PM "<<endl;
    cout<<endl<<"\n\n\t\t\t\t\t\t\t. DUNE (GENRE:
Adventure)"<<endl<<" \n\t\t\t\t\t\t\t\t\t\ TIMING: 6:00 PM -
9:00 PM "<<endl;
```

```
cout<<endl<<"\n\n\t\t\t\t\t\t\tENTER YOUR CHOICE OF
MOVIE: ";
    cin>>chennai_movie_choice;
    chennai halls seats(chennai movie choice);
}
void chennai::chennai halls(int chennai cinema choice){
    t1.user choice city name="CHENNAI";
    switch(chennai cinema choice){
         case 1: {
           chennai cinema name="VNS CINEMA";
              break:
         case 2:{
              chennai cinema name="SANGAM CINEMA";
              break:
         case 3:{
              chennai cinema name="LUXE CINEMA";
              break;
         case 4:{
              chennai cinema name="PALAZZO CINEMA";
              break;
         case 0:{
              exit(0);
              break;
         default : cout<<"PLEASE ENTER A VALID
NUMBER!"<<endl;
    }
    system("clear");
    t1.user choice cinema name = chennai cinema name;
```

```
cout<<"\n\n\t\t\t\t\t\t\tYOUR PREFERRED CINEMA IS
"<<chennai cinema name << " IN CHENNAI. "<<endl;
    cout<<"\n\n\t\t\t\t\t\t\t\t\SELECT YOUR PREFERRED HALL
FOR MOVIE.":
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 1 TO BOOK TICKET IN HALL
A":
  cout<<"\n\n\t\t\t\t\t\t\t->PRESS 2 TO BOOK TICKET IN HALL
  cout<<"\n\n\t\t\t\t\t\t TO EXIT, PRESS 0 ";
  cout<<"\n\n\t\t\t\t\t\t\t ENTER YOUR CHOICE: ";
  cin>>chennai hall choice:
  switch(chennai hall choice){
    case 1:{
         chennai hall name="A";
         break:
    case 2:{
         chennai hall name="B";
         break:
    case 0:{
         exit(0);
         break;
    default : cout<<"PLEASE ENTER A VALID CHOICE
!"<<endl;
    }
    system("clear");
    t1.user_choice_hall_name=chennai hall name;
  cout<<"\n\n\t\t\t\t\t\tYOUR PREFERRED HALL IS HALL
"<<chennai hall name <<" in "<<chennai cinema name<<",
CHENNAI."<<endl;
    chennai movies list();
}
```

```
void chennai::chennai cinemas(){
    system("clear");
    ! "<<endl:
  cout<<"\n\n\t\t\t\t\t\t\t SELECT YOUR PREFERRED HALL FOR
MOVIE.":
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 1 TO BOOK TICKET IN VNS
CINEMA":
  cout<<"\n\n\t\t\t\t\t\t\t -> PRESS 2 TO BOOK TICKET IN
SANGAM CINEMA"
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 3 TO BOOK TICKET IN LUXE
CINEMA ":
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 4 TO BOOK TICKET IN
PALAZZO CINEMA":
  cout<<"\n\n\t\t\t\t\t\t TO EXIT, PRESS 0 ";
  cout<<"\n\n\t\t\t\t\t\t\t\t ENTER YOUR CHOICE : ":
  cin>>chennai cinema choice;
  chennai halls(chennai cinema choice);
}
chennai c1;
void pune::pune halls seats(int pune movie choice){
    switch(pune movie choice){
         case 1: {
             movie name = "A QUIET PLACE";
             t1.show date="20210101";
             t1.show time="09:00AM";
             break
         }
         case 2: {
             movie name = "NO TIME TO DIE";
             t1.show date="20210101";
             t1.show time="12:00PM";
             break
```

```
case 3: {
              movie name = "JUNGLE CRUISE";
              t1.show date="20210101";
              t1.show time="03:00PM";
              break:
         case 4: {
              movie name = "PALM SPRINGS";
              t1.show_date="20210101";
              t1.show time="06:00PM";
              break:
         }
         case 0:{
              exit(0);
              break:
         default : cout<<"PLEASE ENTER A VALID NUMBER!";
    system("clear");
    t1.user choice hall name=pune hall name;
    cout<<"\n\n\t\t\t\t\t\t\tYOUR PREFERRED HALL IS HALL
"<<pune hall name <<" in "<<pune cinema name<<",
PUNE."<<endl;
    t1.user choice movie name=movie name;
    cout<<"\n\t\t\t\t\t\t\t\tYOUR PREFERRED MOVIE IS
"<<movie name<<".";
    ha1.halls seats display();
}
void pune::pune movies list(){
    cout<<"\n\n\t\t\t\t\t\t\t\tMOVIES LIST IN HALL
"<<pune hall name<<" IN "<<pune cinema name<<",
PUNE."<<endl:
    cout<<endl<<"\n\n\t\t\t\t\t\t\tDATE: "<<"01 JAN 2021
"<<endl;
```

```
cout<<endl<<"\n\n\t\t\t\t\t\t\t\1. A QUIET PLACE (GENRE :
Horror )"<<endl<<"\n\t\t\t\t\t\t\t\ TIMING: 9:00 AM -
12:00 PM "<<endl:
     cout<<endl<<"\n\n\t\t\t\t\t\t\t\t2. NO TIME TO DIE (GENRE :
Action )"<<endl<<" \n\t\t\t\t\t\t\t\ TIMING: 12:00 PM -
3:00 PM "<<endl:
    cout<<endl<<"\n\n\t\t\t\t\t\t\t\t3. JUNGLE CRUISE (GENRE :
Adventure )"<<endl<<" \n\t\t\t\t\t\t\t\t\t\ TIMING: 3:00 PM -
6:00 PM "<<endl;
    cout<<endl<<"\n\n\t\t\t\t\t\t\t\t. PALM SPRINGS (GENRE :
Comedy )"<<endl<<" \n\t\t\t\t\t\t\t\t\ TIMING: 6:00 PM -
9:00 PM "<<endl:
    cout<<endl<<"\n\n\t\t\t\t\t\t\t\tENTER YOUR CHOICE OF
MOVIE: ":
    cin>>pune movie choice;
    pune halls seats(pune movie choice);
}
void pune::pune halls(int pune cinema choice){
    t1.user choice city name="PUNE";
    switch(pune cinema choice){
         case 1: {
            pune cinema name="INOX CINEMA";
              break:
         case 2:{
              pune cinema name="MANGALA CINEMA";
              break
         }
         case 3:{
              pune cinema name="E SQUARE CINEMA";
              break:
         case 4:{
              pune cinema name="CINEPOLIS CINEMA";
```

```
break
         case 0:{
              exit(0);
              break:
         default : cout<<"PLEASE ENTER A VALID
NUMBER!"<<endl;
    system("clear");
    t1.user choice cinema name = pune cinema name;
    cout<<"\n\n\t\t\t\t\t\t\tYOUR PREFERRED CINEMA IS
"<<pune cinema name << " IN PUNE. "<<endl;
    cout<<"\n\n\t\t\t\t\t\t\t\t\SELECT YOUR PREFERRED HALL
FOR MOVIE.":
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 1 TO BOOK TICKET IN HALL
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 2 TO BOOK TICKET IN HALL
B":
  cout<<"\n\n\t\t\t\t\t\t TO EXIT, PRESS 0 ";
  cout<<"\n\n\t\t\t\t\t\t\t ENTER YOUR CHOICE : ":
  cin>>pune hall choice;
  switch(pune_hall_choice){
    case 1:{
         pune hall name="A";
         break:
    case 2:{
         pune hall name="B";
         break;
    case 0:{
         exit(0);
         break;
```

```
default : cout<<"PLEASE ENTER A VALID CHOICE
!"<<endl:
    }
    system("clear");
  cout<<"\n\n\t\t\t\t\t\tYOUR PREFERRED HALL IS HALL
"<<pune hall name <<" in "<<pune cinema name<<",
PUNE."<<endl:
    pune movies list();
}
void pune::pune_cinemas(){
    system("clear");
    cout<<"\n\n\n\t\t\t\t\t\t\t\ WELCOME TO PUNE CINEMAS!
"<<endl;
  cout<<"\n\n\t\t\t\t\t\t\t SELECT YOUR PREFERRED HALL FOR
MOVIE.":
  cout<<"\n\n\t\t\t\t\t\t\t\->PRESS 1 TO BOOK TICKET IN INOX
CINEMA ":
  cout<<"\n\n\t\t\t\t\t\t\t\->PRESS 2 TO BOOK TICKET IN
MANGALA CINEMA"
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 3 TO BOOK TICKET IN E
SQUARE CINEMA "...
  cout<<"\n\n\t\t\t\t\t\t\->PRESS 4 TO BOOK TICKET IN
CINEPOLIS CINEMA":
  cout<<"\n\n\t\t\t\t\t\t TO EXIT, PRESS 0 ":
  cout<<"\n\n\t\t\t\t\t\t\t\t ENTER YOUR CHOICE: ";
  cin>>pune cinema choice;
 pune halls(pune cinema choice);
pune p1;
void main::city_display(){
    switch(user choice){
```

```
case 1: {
             d1.delhi_cinemas();
             break;
         case 2:{
             h1.hyderabad_cinemas();
             break;
         case 3:{
             c1.chennai cinemas();
             break;
         case 4:{
             p1.pune_cinemas();
             break;
         case 0:{
             exit(0);
             break;
         default : cout<<"PLEASE ENTER A VALID
NUMBER!"<<endl;
void halls::halls_seats_display(){
    cout<<"\n\n\t\t\t\t\t\Seats marked with [0] are already
booked ."<<endl;
  for(int i=0;i<9;i++){
    cout<<"\n\n\t\t\t\t\t\t\t\";
```

```
for(int j=0;j<9;j++){
               cout<<" "<<"["<<seats[i][j]<<"]"<<" ";
          }
          cout<<endl;
     cout<<" \n\n\t\t\t\t\t\t\t\t\-----SCREEN THIS
     cout<<"\n\n\t\t\t\t\t\t\t\tHOW MANY SEATS YOU WANT TO
BOOK?: ";
     cin>>no_of_seats;
    int y =no_of_seats;
     while(y--){
          cout<<"\n\t\t\t\t\t\t\tENTER THE SEAT NUMBER YOU
WANT TO BOOK: "
          cin>>seat_number;
          book the seats(seat number);
     display();
void halls::display(){
                                  HALL SEAT MATRIX "<<endl;
     cout<<"\n\n\t\t\t\t\t\t\t\t
     for(int i=0;i<9;i++){
     cout<<"\n\n\t\t\t\t\t\t\t\t";
          for(int j=0; j<9; j++){
               cout<<" "<<"["<<seats[i][j]<<"]"<<" ";
          cout<<endl;
     t1.price();
void halls::book_the_seats(int seat_number){
     bool booked=false:
     for(int i=0;i<9;i++){
          for(int j=0; j<9; j++){
```

```
if(seats[i][i]==seat number && seats[i][i]!=0){
                    seats[i][j]=0;
                    booked=true;
                    break;
     if(!booked) {
     cout<<"\n\n\t\t\t\t\t\t\SORRY, THE SEAT IS ALREADY
BOOKED!";
     cout<<"\n\n\t\t\t\t\t\t DO YOU WISH TO BOOK ANOTHER
SEAT? (PRESS 1 else 0): ";
     int one;
     cin>>one;
     if(one==1) halls seats display();
    else exit(0);
}
void ticket::price(){
     cout<<"\n\n\t\t\t\t\t\tARE YOU SURE YOU WANT TO
BOOK THESE SEATS? "<<endl;
     cout<<"\n\n\t\t\t\t\t\t\tPRICE OF TICKET: 500(per
seat)"<<endl;
     cout<<"\n\n\t\t\t\t\t\t\tYOUR TOTAL PRICE:
"<<ha1.no of seats*500<<endl;
     cout<<"\n\n\t\t\t\t\t\t\tPRESS 'Y' OR 'y' TO CONFIRM: ";
     char ch;
     cin>>ch;
     if(ch=='y' || ch=='Y') {
          user details();
     else exit(0);
}
```

```
void ticket::user details(){
     cout<<"\n\n\t\t\t\t\t\t ENTER YOUR FIRST NAME : ";
     cin>>first name;
     cout<<"\n\n\t\t\t\t\t\t\t ENTER YOUR LAST NAME : ";
     cin>>last name;
     ticket display();
}
void ticket::ticket display(){
system("clear");
cout<<"\n\n\n\n\t\t\t\t\t
                                             \n";
cout<<"\t\t\t\t\t
                                                           |\n";
cout<<"\t\t\t\t\t\t| Dear Customer,
|\n";
cout<<"\t\t\t\t\t\t
                            Congratulations!! Your tickets has
been booked. |\n";
cout<<"\t\t\t\t\t\t
                                                           |\n";
                          THE DETAILS:
cout<<"\t\t\t\t\t\t
|\n";
                                FIRST NAME: "<<first name<<"
cout<<"\t\t\t\t\t
\n";
cout<<"\t\t\t\t\t|
                                LAST NAME: "<<last name<<"
\n":
cout<<"\t\t\t\t\t\t
                                CINEMA NAME:
"<<user choice cinema name<<","<<user choice city name<<"
\n";
                                MOVIE HALL:
cout<<"\t\t\t\t\t\t
"<<user choice hall name<<" \n";
cout<<"\t\t\t\t\t\t
                                MOVIE NAME:
"<<user choice movie name<<" \n";
cout<<"\t\t\t\t\t
                                SHOW DATE: "<<show date<<"
\n";
```

```
cout<<"\t\t\t\t\t\t
                      SHOW
STARTS:"<<show_time<<" \n";
cout<<"\t\t\t\t\t\t| NUMBER OF TICKETS
BOOKED: "<<ha1.no_of_seats<<" \n";
cout<<"\t\t\t\t\t
                      TOTAL
PRICE:"<<500*ha1.no_of_seats<<" \n";
cout<<"\t\t\t\t\t
}
int main()
{
u1.cities choice();
u1.city display();
return 0;
}
```

Welcomes the user and ask for preferred city as a choice

```
WELCOME TO BOOK MY SHOW!

SELECT YOUR PREFERRED CITY FOR MOVIE.

->PRESS 1 TO BOOK TICKET IN DELHI

->PRESS 2 TO BOOK TICKET IN HYDERABAD

->PRESS 3 TO BOOK TICKET IN CHEMNAI

->PRESS 4 TO BOOK TICKET IN PUNE

TO EXIT , PRESS 0

ENTER YOUR CHOICE : 2
```

Lists all the cinemas in the user choice city
Ask the user about its preferred cinema in the preferred city

```
WELCOME TO HYDERABAD CINEMAS!

SELECT YOUR PREFERRED HALL FOR MOVIE.

->PRESS 1 TO BOOK TICKET IN UPSTAGE CINEMA

->PRESS 2 TO BOOK TICKET IN SKYLAB CINEMA

->PRESS 3 TO BOOK TICKET IN RKV CINEMA

->PRESS 4 TO BOOK TICKET IN RKV CINEMA

TO EXIT , PRESS 9

ENTER YOUR CHOICE: 2
```

Lists all the halls in the user choice cinema
Ask the user about its preferred hall in the preferred cinema

```
YOUR PREFERRED CINEMA IS SKYLAB CINEMA IN HYDERABAD.

SELECT YOUR PREFERRED HALL FOR MOVIE .

->PRESS 1 TO BOOK TICKET IN HALL A

->PRESS 2 TO BOOK TICKET IN HALL B

TO EXIT , PRESS 0

ENTER YOUR CHOICE : 1
```

Lists all the movies running on the same day in the preferred hall & ask for the user choice

```
COUNTINE CONTROL OF MOVIES LIST IN HALL A IN SKYLAB CINEMA, HYDERABAD.

MOVIES LIST IN HALL A IN SKYLAB CINEMA, HYDERABAD.

DATE: 01 JAN 2021

1. HOUSE OF GUCCI (GENRE: Drama)

TIMING: 9:00 AM - 12:00 PM

2. SPENCER (GENRE: Drama)

TIMING: 12:00 PM - 3:00 PM

3. TOP GUN:MAVERICK (GENRE: Drama+Action)

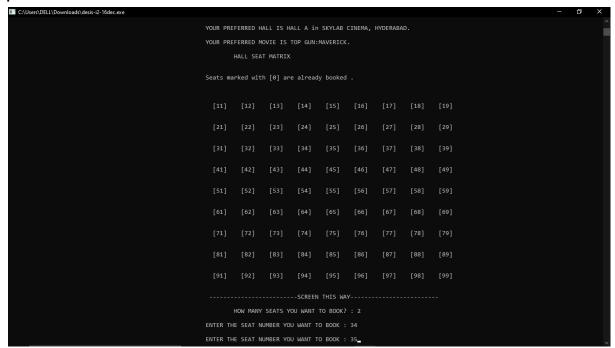
TIMING: 3:00 PM - 6:00 PM

4. LAST NIGHT IN SOHO (GENRE: Horror)

TIMING: 6:00 PM - 9:00 PM

ENTER YOUR CHOICE OF MOVIE: 3
```

Opens the hall seat matrix of that movie and ask the user its preferred seat



Show the booked seats to user & price of the tickets Ask the user whether to confirm book the seats or not

If a user confirms to book the seats, then it ask the user for its details and book the ticket

```
PRESS 'Y' OR 'y' TO CONFIRM : y

ENTER YOUR FIRST NAME : Sejal

ENTER YOUR LAST NAME : Maheshwari.
```

Books the ticket and display it with all the details .

```
Dear Customer,
Congratulations!! Your tickets has been booked.

THE DETAILS:
FIRST NAME: Sejal
LLEN NAME: Sejal
LLEN NAME: SEXTLAI CITIENA, HYDERABAD
NOVIE HALL:
SHOW DATE: 20216101
SIGN: STRATS: 80206101
SIGN: STRATS: 80206101
NUMBER OF TICKETS BOOKED: 2
TOTAL PRICE: 1888

Process exited after 224.1 seconds with return value 0
Press any key to continue . . . .
```

Displays error if user enters a invalid number

```
WELCOME TO BOOK MY SHOW!

SELECT YOUR PREFERRED CITY FOR MOVIE.

->PRESS 1 TO BOOK TICKET IN DELHI

->PRESS 2 TO BOOK TICKET IN HYDERABAD

->PRESS 3 TO BOOK TICKET IN CHENNAI

->PRESS 4 TO BOOK TICKET IN PUNE

TO EXIT , PRESS 0

ENTER YOUR CHOICE : 5

Process exited after 14.75 seconds with return value 0

Press any key to continue . . . . _
```

A same seat cannot be booked twice, it displays an error and ask the user if he wish to book another seat



If user wants to book another seat, it displays the hall seat matrix again and ask for user choice again



Exits the program if user doesn't want to book the ticket

