



MOVIE BOOKING

MINI PROJECT IN JAVA

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4C

INTRODUCTION

- A movie booking platform facilitates selection, reservation and purchase of tickets for the movies.
- Waiting in queue for hours in long queues to get tickets booked is definitely a headache.
- This project is one of the best opportunities for those who cannot afford enough time to get their tickets reserved standing in long queues.
- The project provides complete information regarding currently running movies on all the screens with details of show timings and available seats.
- This project makes an entire process hassle free and less time consuming than the traditional methods of movie booking.

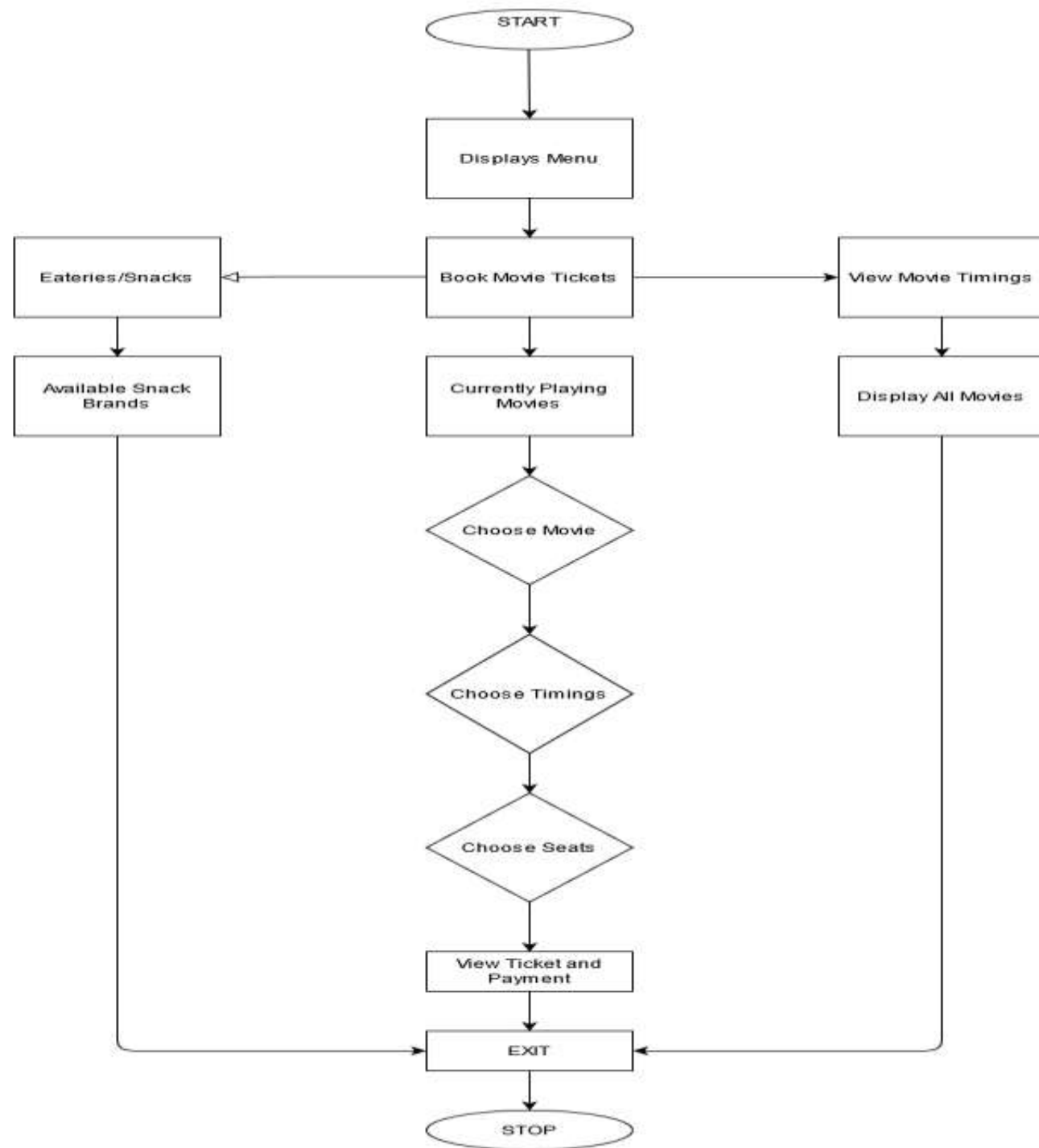
EXISTING SYSTEM

- Manual - Slow and inconsistent.
- Time consuming – A lot of time is wasted standing in queues.
- Dependent on employee – Human errors are common and can cause issues in movie booking.
- Insecurity – Can not guarantee security.

PROPOSED SYSTEM

- Computerized – fast and consistent.
- Time saving – Instant and saves a lot of time.
- Independent of employee – Human errors are less to nil.
- Security – Can assure security at some level.

FLOWCHART



ALGORITHM

- STEP 1: START
- STEP 2: Displays options
 - 1.Book Movie Tickets
 - 2.See Movies/Show Timings
 - 3.Snacks
 - 4.Exit
- STEP 3: Option 1:Displays all the list of movies for booking.
- STEP 4: Asks for the movie number.

- STEP 5: Takes the time of the movie.
- STEP 6: Takes the number of seats.
- STEP 7: Asks for the preferred row number, seat type and seat number.
- STEP 8: Displays ticket details including the movie name, timings, seat number and cost.
- STEP 9: Option 2: See Movies/Show Timings – It will list all the movies and schedules.
- STEP 10: Option 3: Displays all the snacks types and brands available to the consumer.
- STEP 11: Option 4: Exit – Exits the program.

PROGRAM – MODULE 1

In this module, we create an abstract class for snacks with few eateries as options. We create another class `snacks_movies` and inherit the properties of snacks and create methods with brand names available in canteen.

```
package TICKET;
import java.util.*;
abstract class snacks
{
    String chips;
    String drinks;
    String popcorn;
    public void break_time()
    {
        System.out.println("Don't forget to get some snacks for the movies at our canteen!");
    }
}
class snacks_movies extends snacks
{
    public void chips_brands()
    {
        System.out.println("AVAILABLE CHIPS BRANDS:  Lays, Bingo, Yumitos, Kurkure");
    }
}
```



```
public void drinks_brands()
{
    System.out.println("AVAILABLE DRINKS BRANDS: Coke, Pepsi, 7UP, Maaza");
}
public void popcorn_brands()
{
    System.out.println("AVAILABLE POPCORN BRANDS: Act II, Black Jewell, Jolly Time, Pop Secret");
}
public static void main(String args[])
{
    snacks_movies a=new snacks_movies();
    a.chips_brands();
    a.popcorn_brands();
    a.drinks_brands();
    a.break_time();
}
}
```

MODULE 2

In this module we create a class TI, we create method print_ticket for showing all the details like movie name, showtimes, seat numbers, date and cost. Method display_show_timings has all the show/movies available to watch and their respective timings. Method check_time uses a switch case to check the timings entered by user matches the time slot available for that particular movie. Methods show_empty_seats and check_seats shows the number of seats available and number of seats available after booking respectively.

```
class TI {  
    public static class ticket {  
        screen s = new screen();  
        void print_ticket(String movie,String showtime,int screen,String cat, String rowch, int colch)  
        {  
            Date date = new Date();  
            int cost = s.getcost(cat);  
            System.out.println("#####REV Cinemas#####");  
            System.out.println("\t\t    MOVIE BOOKING");  
            System.out.println("\tMovie: "+movie+"\t");  
            System.out.print("\tTime: "+showtime);  
            System.out.println("\t\t\tSeat: "+rowch+colch);  
            System.out.print("\tCategory: "+cat);  
            System.out.println("\t\t\tScreen: "+screen);  
        }  
    }  
}
```

```
System.out.println("\tDate: "+date);
    System.out.println("\tPrice: ₹"+cost);
    System.out.println("\tThank You! Hope to see you again soon!\n\n");
}
}
public static class show {

    static String seats[][][] = new String[5][6][12];

    void display_show_timings()
    {
        System.out.println("\tMovies Now Playing          \t\t\t\t Timings");
        System.out.print("1.   Zack Snyder`s Justice League – \t\t\t\t 10:20   11:30   17:30 ");
        System.out.println();
        System.out.print("2.   Godzilla vs. Kong –          \t\t\t\t 10:45   12:30   16:30 ");
        System.out.println();
        System.out.print("3.   Parasite –                  \t\t\t\t 10:00   11:45   15:30 ");
        System.out.println();
        System.out.print("4.   Joker –                    \t\t\t\t 12:00   13:30   17:30 ");
        System.out.println();
        System.out.print("5.   Knives Out –               \t\t\t\t 09:20   11:30   17:30 ");
        System.out.println();
    }
}
```

```
String check_time(int x,String t)
{
    switch(x)
    {
        case 1: if(t.equals("10:20") || t.equals("11:30") || t.equals("17:30")){
            return "true";
        }
        else
        { System.out.println("Time not available");
            return "false";
        }

        case 2: if(t.equals("10:45") || t.equals("12:30") || t.equals("16:30")){return "true";}
        else{
            System.out.println("Time not available");
            return "false";
        }

        case 3: if(t.equals("10:00") || t.equals("11:45") || t.equals("15:30")){return "true";}
        else
        { System.out.println("Time not available");
            return "false";
        }
    }
}
```



```
case 4: if(t.equals("12:00") || t.equals("13:30") || t.equals("17:30")){return "true";}
else
{
    System.out.println("Time not available");
    return "false";
}
```

```
case 5: if(t.equals("9:20") || t.equals("11:30") || t.equals("17:30")){return "true";}
else
{
    System.out.println("Time not available");
    return "false";
}
default: return "false";
}
```

```
}
void show_empty_seats(String x,int i)
{
    for(int j=0;j<12;j++)
        if(seats[i-1][x.charAt(0)-'A'][j]!="Full")
        {
            System.out.print(" "+(j+1));
        }
}
```



```
boolean check_seats(String a,int x,int i)
{
    if(seats[i-1][a.charAt(0)-'A'][x-1]!="Full")
        return false;
    else
        return true;
}
void fill_seat(String a,int b,int i)
{
    seats[i-1][a.charAt(0)-'A'][b-1]="Full";
}
```

```
String getmovie(int x)
{
    switch(x)
    {
        case 1: return "Zack Snyder`s Justice League";
        case 2: return "Godzilla vs. Kong";
        case 3: return "Parasite";
        case 4: return "Joker";
        case 5: return "Knives Out";
        default: return "";
    }
}
```

```
public static void main()  
{  
    for(int k =0; k<5;k++)  
        for(int i=0;i<6;i++)  
            for(int j=0;j<12;j++)  
                seats[k][i][j]="Empty";  
}  
}
```



```

        seats available for customers and let them choose between bronze, silver and platinum
        get the row number user wants to choose to be seated and we use getcost for the prices
        Rs.150,Rs.225,Rs.300 respectively.

    Screen this side");
    _____");
    _____");
    □□□□□□□□□□ Bronze – ₹ 150");
    □□□□□□□□□□ Bronze – ₹ 150");
    _____");
    □□□□□□□□□□ Silver – ₹ 225");
    □□□□□□□□□□ Silver – ₹ 225");
    _____");
    □□□□□□□□□□ Platinum – ₹ 300");
    □□□□□□□□□□ Platinum – ₹ 300");
    Please Enter Preferred Row. Seat will be booked as per availability.\n");

```

```

        seats available for customers and let them choose between bronze, silver and platinum
        get the row number user wants to choose to be seated and we use getcost for the prices
        Rs.150,Rs.225,Rs.300 respectively.

    Screen this side");
    _____");
    _____");
    □□□□□□□□□□ Bronze – ₹ 150");
    □□□□□□□□□□ Bronze – ₹ 150");
    _____");
    □□□□□□□□□□ Silver – ₹ 225");
    □□□□□□□□□□ Silver – ₹ 225");
    _____");
    □□□□□□□□□□ Platinum – ₹ 300");
    □□□□□□□□□□ Platinum – ₹ 300");
    Please Enter Preferred Row. Seat will be booked as per availability.\n");

```

```

        seats available for customers and let them choose between bronze, silver and platinum
        get the row number user wants to choose to be seated and we use getcost for the prices
        Rs.150,Rs.225,Rs.300 respectively.

    Screen this side");
    _____");
    _____");
    □□□□□□□□□□ Bronze – ₹ 150");
    □□□□□□□□□□ Bronze – ₹ 150");
    _____");
    □□□□□□□□□□ Silver – ₹ 225");
    □□□□□□□□□□ Silver – ₹ 225");
    _____");
    □□□□□□□□□□ Platinum – ₹ 300");
    □□□□□□□□□□ Platinum – ₹ 300");
    Please Enter Preferred Row. Seat will be booked as per availability.\n");

```

```
{
    String cat;
    if(a.compareToIgnoreCase("A")==0 || a.compareToIgnoreCase("B")==0)
        cat="Bronze";
    else if(a.compareToIgnoreCase("C")==0 || a.compareToIgnoreCase("D")==0)
        cat="Silver";
    else if(a.compareToIgnoreCase("E")==0 || a.compareToIgnoreCase("F")==0)
        cat="Platinum";
    else
        cat="N/A";
    return cat;
}

int getcost(String cat)
{ int cost = 0;
  if(cat.compareToIgnoreCase("Bronze")==0)
      cost=150;
  else if(cat.compareToIgnoreCase("Silver")==0)
      cost=225;
  else if(cat.compareToIgnoreCase("Platinum")==0)
      cost=300;
  else
      return 0; return cost;
}
}
```


MODULE 4

In this module, we have our main function. Displays all the menu options to the user to choose from like Book movie tickets, See available movies, Snacks and Exit option.

```
class run {
```

```
    public static void main(String args[]){
        Scanner in = new Scanner(System.in);
        int ch,i,n,movch; String rowch[]=new String[12];
        int colch[]=new int[12];
        String time = new String();
        String timecheck = new String();
        Tl.show objshow = new Tl.show();
        screen objscreen = new screen();
        Tl.ticket objticket = new Tl.ticket();

        snacks_movies d=new snacks_movies();
        while(true){
            System.out.println("\n\t\t Movie Ticket Booking System\n");
            System.out.println("1.Book Movie Tickets");
            System.out.println("2.See Movies/Show Timings");
            System.out.println("3.Snacks");
            System.out.println("4.Exit");
```



```
System.out.println("\nAdvanced Bookings are closed as of now.");
System.out.println("\nEnter Choice");
ch = in.nextInt();
switch(ch)
{
    case 1:    objshow.display_show_timings();
               System.out.println("Choose the Movie");
               movch=in.nextInt();
               do{
                   System.out.println("Enter Show timings (hh:mm)");
                   time=in.next();
                   timecheck=objshow.check_time(movch,time);
               }while(timecheck.equals("false"));
               System.out.println("Enter Number of seats");
               n=in.nextInt();

               for(i=0;i<n;i++){
                   objscreen.display_seats();
                   rowch[i]=in.next().toUpperCase();
                   objshow.show_empty_seats(rowch[i],movch);
                   colch[i]=in.nextInt();
               }
}
```

```
if(objshow.check_seats(rowch[i],colch[i],movch))
{
    System.out.println("Seat is not available");
}
objshow.fill_seat(rowch[i],colch[i],movch);
}
for(i=0;i<n;i++)
{
    objticket.print_ticket(objshow.getmovie(movch), time, 3, objscreen.getcat(rowch[i]), rowch[i], colch[i]);
}

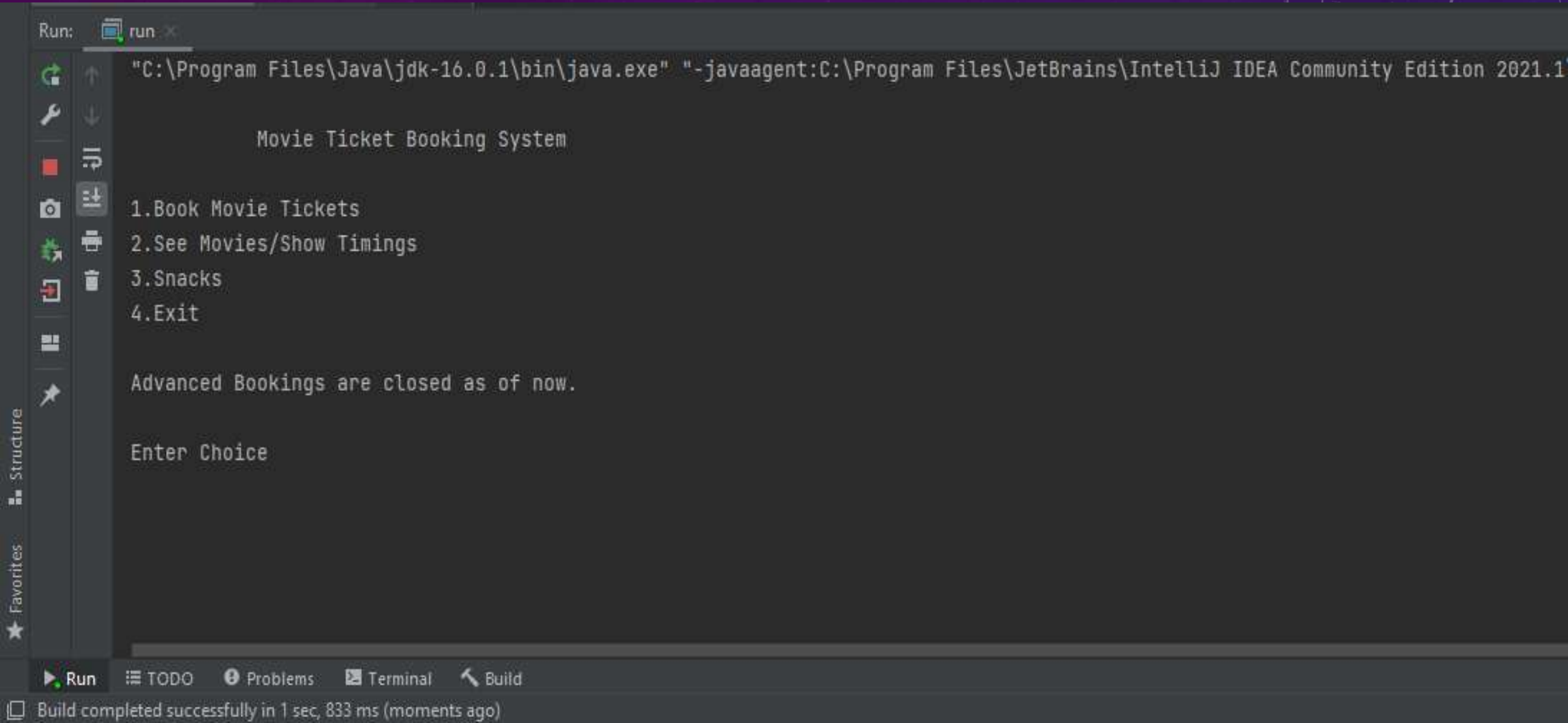
break;

case 2: objshow.display_show_timings();
break;
case 3:n=1;
for(i=0;i<n;i++) {
    d.break_time();
    d.popcorn_brands();
    d.drinks_brands();
    d.chips_brands();
}

case 4: System.exit(0);  } } } }
```

RESULTS

Displays the Menu



```
Run: run x
"C:\Program Files\Java\jdk-16.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.1\lib\idea_rt.jar=5050:C:\Program Files\Java\jdk-16.0.1\bin" -Dfile.encoding=UTF-8

Movie Ticket Booking System

1.Book Movie Tickets
2.See Movies/Show Timings
3.Snacks
4.Exit

Advanced Bookings are closed as of now.

Enter Choice
```

Build completed successfully in 1 sec, 833 ms (moments ago)

CHOICE 1:

Lets user choose the movie, select timings and number of seats.

Lets you choose the seat numbers according to the seat type (Bronze, Silver, Platinum)

Shows the tickets with all the details like movie name, time, seat number, date, time and the price for your ticket.

```
Run: run x
Please Enter Preferred Row. Seat will be booked as per availability.
E
1 2 3 4 5 6 7 9 10 11 12
9
#####REV Cinemas#####
      MOVIE BOOKING
Movie: Joker
Time: 13:30      Seat: E8
Category: Platinum      Screen: 3
Date: Thu Jul 01 20:28:04 IST 2021
Price: ₹300
Thank You! Hope to see you again soon!

#####REV Cinemas#####
      MOVIE BOOKING
Movie: Joker
Time: 13:30      Seat: E9
Category: Platinum      Screen: 3
Date: Thu Jul 01 20:28:04 IST 2021
Price: ₹300
Thank You! Hope to see you again soon!

      Movie Ticket Booking System

1.Book Movie Tickets
2.See Movies/Show Timings
3.Snacks
4.Exit

Advanced Bookings are closed as of now.

Enter Choice
```

CHOICE 2:

Shows all the movies running in the theatre currently.

```
run x
MOVIE BOOKING
Movie: Joker
Time: 13:30      Seat: E9
Category: Platinum      Screen: 3
Date: Thu Jul 01 20:28:04 IST 2021
Price: ₹300
Thank You! Hope to see you again soon!

Movie Ticket Booking System

1.Book Movie Tickets
2.See Movies/Show Timings
3.Snacks
4.Exit

Advanced Bookings are closed as of now.

Enter Choice
2
Movies Now Playing      Timings
1. Zack Snyder's Justice League -      10:20      11:30      17:30
2. Godzilla vs. Kong -      10:45      12:30      16:30
3. Parasite -      10:00      11:45      15:30
4. Joker -      12:00      13:30      17:30
5. Knives Out -      09:20      11:30      17:30

Movie Ticket Booking System

1.Book Movie Tickets
2.See Movies/Show Timings
3.Snacks
4.Exit

Advanced Bookings are closed as of now.

Enter Choice
```

CHOICE 3:

Shows the available brands of snacks in the canteen (Popcorns, Soft drinks and chips).

CHOICE 4:

Exits from the ticket booking system.

Movie Ticket Booking System

- 1.Book Movie Tickets
- 2.See Movies/Show Timings
- 3.Snacks
- 4.Exit

Advanced Bookings are closed as of now.

Enter Choice

3

Don't forget to get some snacks for the movies at our canteen!

AVAILABLE POPCORN BRANDS: Act II, Black Jewell, Jolly Time, Pop Secret

AVAILABLE DRINKS BRANDS: Coke, Pepsi, 7UP, Maaza

AVAILABLE CHIPS BRANDS: Lays, Bingo, Yumitos, Kurkure

Process finished with exit code 0

|



THANK YOU