

Group Course Project

Cinema booking program

1. Introduction

A program that allows the user to book tickets to cinemas and allows him to choose the time and seat and the program consists of three classes each connected to the other.

2. Program:

2.1 Classes:

A. Customer:

It's a dedicated class for the customer to write down his name and ID number.

B. Ticket:

In this class, the customer can see the ticket price and book the seat.

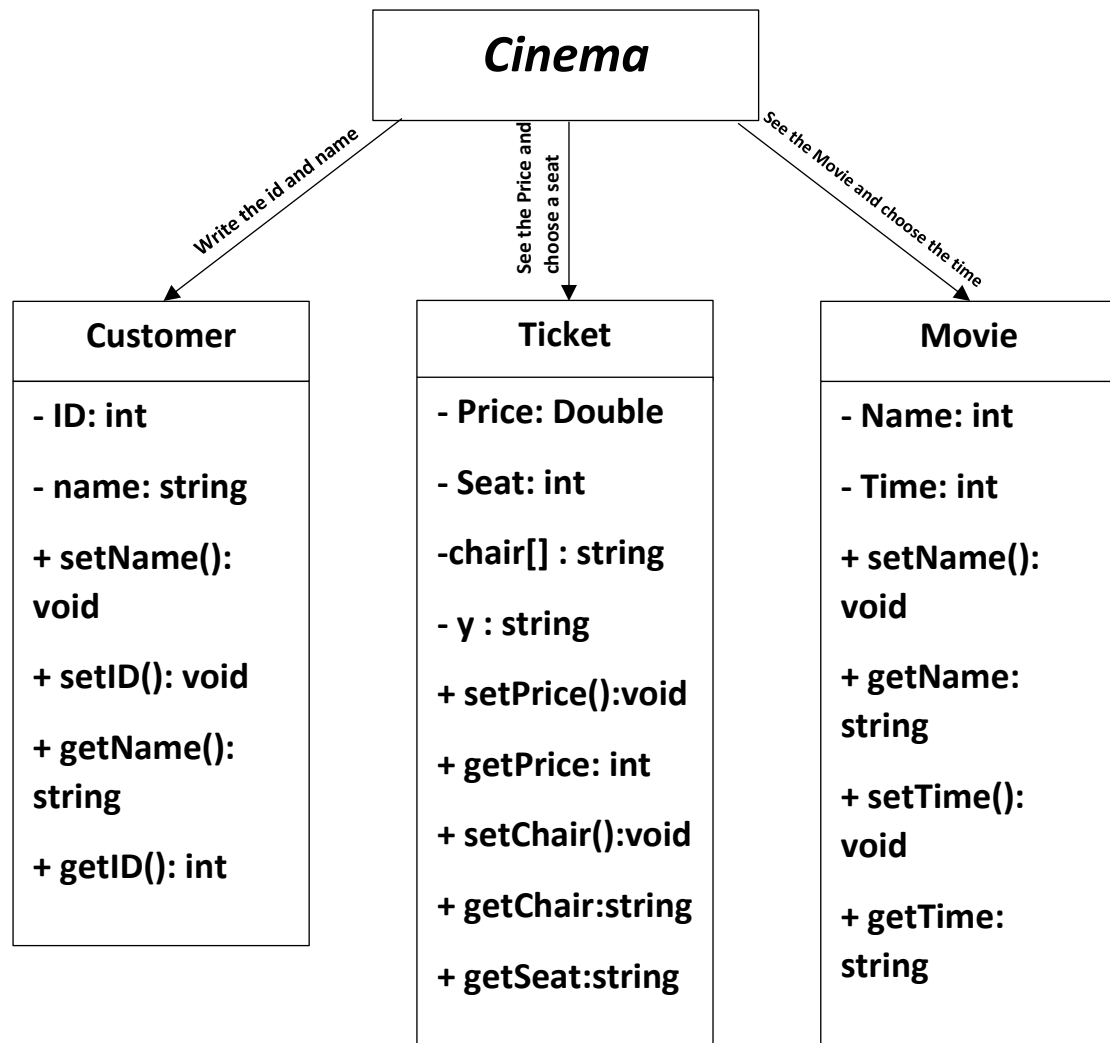
C. Movie:

And here the customer can see the name of the movie and choose it and choose the seat

2.2 How it Works:

When the program starts, the user is asked to enter the ID number and enter his name and then the user moves to choose the movie where four choices appear with their price and then the user chooses the time he wants and the seat after that the ticket shows to the user with his information and stored in the file and the user choose if he wants to book another ticket or finish the program.

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Cinema booking program



Students

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Cinema booking program

```
Source History
1 package cinema;
2
3 import java.io.BufferedReader;
4 import java.io.File;
5 import java.io.FileWriter;
6 import java.io.IOException;
7 import java.io.InputStreamReader;
8 import java.io.PrintWriter;
9 import static java.lang.System.out;
10 import java.util.ArrayList;
11 import java.util.Scanner;
12
13
14
15 public class Cinema {
16
17
18     public static void main(String[] args) throws IOException {
19         BufferedReader bfn = new BufferedReader(new InputStreamReader(System.in));
20         Scanner keyboard = new Scanner(System.in);
21         File log = new File("Cinma.txt");
22
23
24
25
26         int mName;
27         String time;
28         String movie;
29         String chair;
30         int re ;
31
32
33         int id;
34         Movie x = new Movie();
35         customer y = new customer();
36         Tickets z = new Tickets();
37
38
39         System.out.println(" ");
40         System.out.println("Welcome to the Cinema");
41
42         System.out.println("Your Name:");
43         String name= bfn.readLine();
44         y.setName(name);
45         System.out.println("Your ID");
```

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```
Start Page x Cinema.java x Movie.java x customer.java x Tickets.java x
Source History

43 String name= bfn.readLine();
44 y.setName(name);
45 System.out.println("Your ID");
46 id = keyboard.nextInt();
47 while (id < 1 )
48 {
49     System.out.println("ID can't be negative number");
50     System.out.println("Enter a valid ID number: ");
51     id = keyboard.nextInt();
52 }
53
54 y.setID(id);
55 ArrayList<customer> list;
56 list = new ArrayList<>();
57 list.add(new customer());
58 for (int index = 1; index < list.size(); index++){
59     customer i = list.get(index);
60
61 }
62
63
64
65
66 do{
67     try{
68         if(log.exists()==false){
69             System.out.println("We had to make a new file.");
70             log.createNewFile();
71         }
72         PrintWriter outputFile = new PrintWriter(new FileWriter(log, true));
73         System.out.println(" (-----)\n"
74             + "         The movies           The price\n"
75             + " 1- Lord of the rings      60 RS      \n"
76             + " 2- The Batman            80 RS      \n"
77             + " 3- Man of steel          100 RS     \n"
78             + " 4- Joker                 65 RS     \n"
79             + " (-----)");
80         mName = keyboard.nextInt();
81         while (mName < 1 || mName > 4)
82         {
83             System.out.println("invalid choice");
84             System.out.println("Enter author choice: ");
85             mName = keyboard.nextInt();
86         }
87
```

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Cinema booking program

```
Start Page x Cinema.java x Movie.java x customer.java x Tickets.java x
Source History
75      + " 1- Lord of the rings      60 RS      \n"
76      + " 2- The Batman            80 RS      \n"
77      + " 3- Man of steel          100 RS      \n"
78      + " 4- Joker                 65 RS      \n"
79      + " (-----) ");
80      mName = keyboard.nextInt();
81      while (mName < 1 || mName > 4)
82      {
83          System.out.println("invalid choice");
84          System.out.println("Enter author choice: " );
85          mName = keyboard.nextInt();
86      }
87
88      x.setName(mName);
89      z.setPrice(mName);
90      movie=x.getName();
91      chair=z.getChair();
92      time=x.getTime();
93
94      outputFile.println("Name: "+ y.getName());
95      outputFile.println("ID: " + y.getID());
96      outputFile.println("The Movie: " +x.getName());
97      outputFile.println("The seat is : "+z.getSeat());
98      outputFile.println("Time is: " + x.getTime());
99      System.out.println("The Movie: " +x.getName());
100     System.out.println("Your seat is : "+z.getSeat());
101     System.out.println("Time is: " + x.getTime());
102     System.out.println("price is: " + z.getPrice());
103
104     outputFile.close();
105     }catch(IOException e){
106     System.out.println("COULD NOT LOG!!");}
107
108     System.out.println("Do you want to make another reservation?\n"
109         + "1-Yes\n"
110         + "2-No ");
111     re=keyboard.nextInt();
112     }while(re==1);
113
114
115
116     }
117
118 }
119
```

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Cinema booking program

```
1
2 package cinema;
3
4 import java.util.Scanner;
5
6
7 public class Movie {
8     private int movieName;
9     private int time;
10
11
12     public void setName(int m) {
13         movieName = m;
14         Scanner keyboard = new Scanner(System.in);
15
16         switch(m) {
17             case 1:
18                 System.out.println("chose the time\n"
19                     + "1- 6:00 PM\n"
20                     + "2- 8:00 PM\n"
21                     + "3- 10:00 PM\n"
22                     + "4- 12:00 AM");
23                 time = keyboard.nextInt();
24                 while (time < 1 || time > 4)
25                 {
26                     System.out.println("invalid choice");
27                     System.out.print("Enter anothor choice: ");
28                     time = keyboard.nextInt();
29                 }
30
31                 break;
32             case 2:
33                 System.out.println("chose the time\n"
34                     + "1- 6:00 PM\n"
35                     + "2- 8:00 PM\n"
36                     + "3- 10:00 PM\n"
37                     + "4- 12:00 AM");
38                 time = keyboard.nextInt();
39                 while (time < 1 || time > 4)
40                 {
41                     System.out.println("invalid choice");
42                     System.out.print("Enter anothor choice: ");
43                     time = keyboard.nextInt();
44                 }
45
46                 break;
```

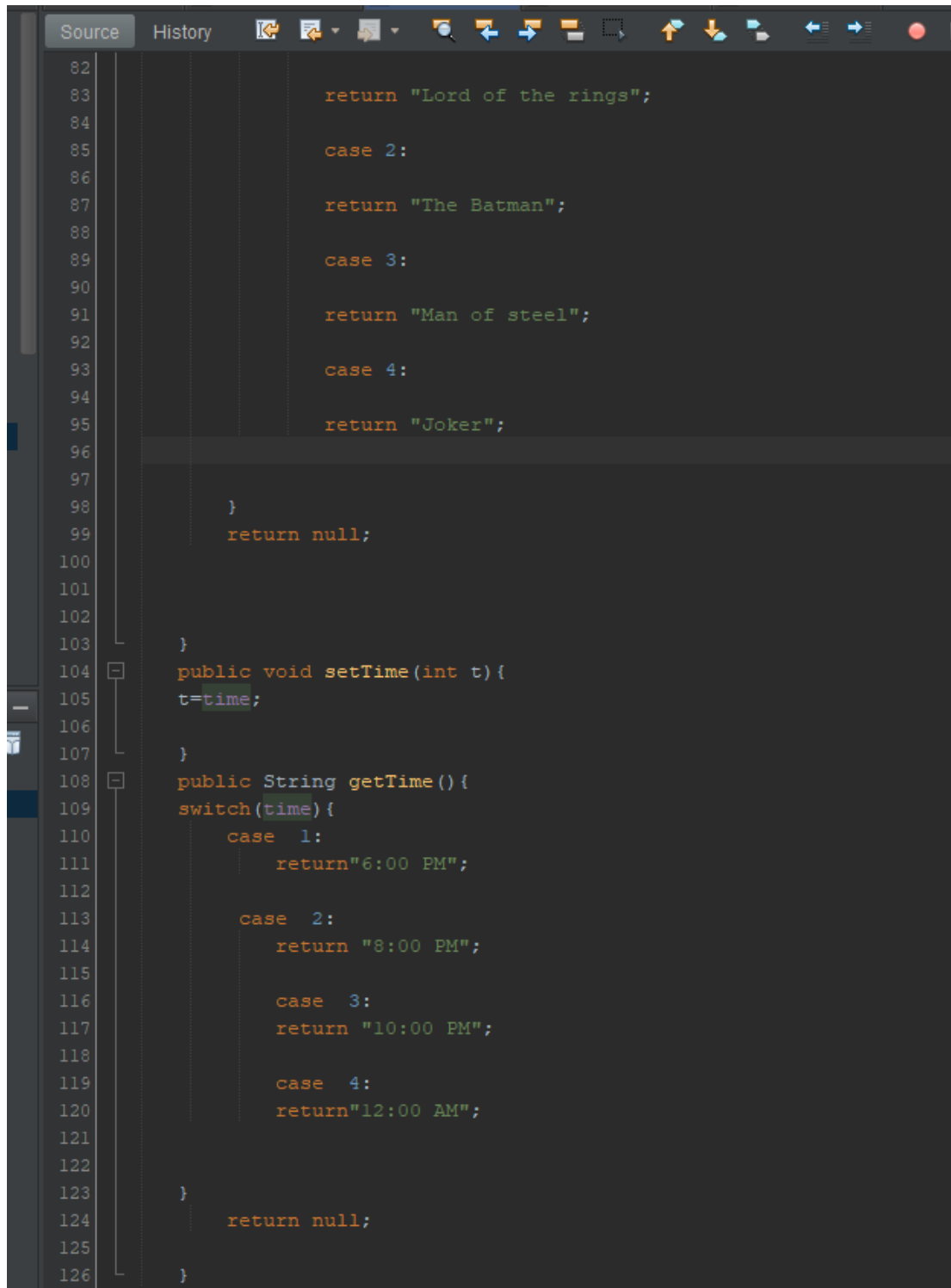
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Cinema booking program

```
Start Page x Cinema.java x Movie.java x customer.java x Tickets.java x
Source History
43     time = keyboard.nextInt();
44 }
45     break;
46     case 3:
47         System.out.println("chose the time\n");
48         + "1- 6:00 PM\n"
49         + "2- 8:00 PM\n"
50         + "3- 10:00 PM\n"
51         + "4- 12:00 AM");
52         time = keyboard.nextInt();
53         while (time < 1 || time > 4)
54 {
55     System.out.println("invalid choice");
56     System.out.print("Enter anthor choice: ");
57     time = keyboard.nextInt();
58 }
59     break;
60     case 4:
61         System.out.println("chose the time\n");
62         + "1- 6:00 PM\n"
63         + "2- 8:00 PM\n"
64         + "3- 10:00 PM\n"
65         + "4- 12:00 AM");
66         time = keyboard.nextInt();
67         while (time < 1 || time > 4)
68 {
69     System.out.println("invalid choice");
70     System.out.print("Enter anthor choice: ");
71     time = keyboard.nextInt();
72 }
73
74     break;
75 }
76
77
78 }
79 public String getName(){
80     switch(movieName){
81         case 1:
82
83             return "Lord of the rings";
84
85         case 2:
86
87             return "The Batman";
```

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```
82
83         return "Lord of the rings";
84
85         case 2:
86
87         return "The Batman";
88
89         case 3:
90
91         return "Man of steel";
92
93         case 4:
94
95         return "Joker";
96
97
98     }
99     return null;
100
101
102
103 }
104 public void setTime(int t){
105     t=time;
106 }
107
108 public String getTime(){
109     switch(time){
110         case 1:
111             return"6:00 PM";
112
113         case 2:
114             return "8:00 PM";
115
116         case 3:
117             return "10:00 PM";
118
119         case 4:
120             return"12:00 AM";
121
122     }
123
124     return null;
125
126 }
```


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```
1
2 package cinema;
3
4 import java.util.ArrayList;
5 import java.util.ArrayList;
6
7 /**
8  * @author k
9  */
10 class customer {
11     private int id;
12     private String name;
13
14     public void setName(String n){
15         name=n;
16     }
17
18     public void setID(int d){
19         id=d;
20     }
21
22     public String getName(){
23         return name;
24     }
25
26     public int getID(){
27
28         return id;
29     }
30 }
31
32
33
```

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Cinema booking program



```
1
2 package cinema;
3
4 import java.util.Scanner;
5
6
7 public class Tickets {
8     private int price;
9     private int tickets;
10    private String chair[];
11    private String y;
12    public void setPrice(int p) {
13        price=p;
14    }
15
16    public String getPrice(){
17        switch (price){
18
19            case 1:
20                return "60 RS";
21
22            case 2:
23                return "80 RS";
24            case 3:
25                return "100 RS";
26            case 4:
27                return "65 RS";
28
29
30
31        }
32        return null;
33    }
34
35    public void setChair(String args ){
36        String[] c = null;
37
38
39
40        chair=c;
41    }
42
43    public String getChair(){
```

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```
chair=c;

}

public String getChair(){
    String[] chair = {"0","A1","A2","A3","A4","A5","A6","A7","A8","A9",
        "B1","B2","B3","B4","B5","B6","B7","B8","B9",
        "C1","C2","C3","C4","C5","C6","C7","C8","C9",
        "D1","D2","D3","D4","D5","D6","D7","D8","D9",};

    Scanner keyboard = new Scanner(System.in);
    int x;
    System.out.println("Chose your seat");
    System.out.println(" 1-A1 2-A2 3-A3 4-A4 5-A5 6-A6 7-A7 8-A8 9-A9\n" +
" 10-B1 11-B2 12-B3 13-B4 14-B5 15-B6 16-B7 17-B8 18-B9\n"+
" 19-C1 20-C2 21-C3 22-C4 23-C5 24-C6 25-C7 26-C8 27-C9\n" +
" 28-D1 29-D2 30-D3 31-D4 32-D5 33-D6 34-D7 35-D8 36-D9\n");

    x = keyboard.nextInt();
    while (x < 1 || x > 36)
    {
        System.out.println("That number is invalid.");
        System.out.print("Enter a number in the " +
            "range of 1 through 36: ");
        x = keyboard.nextInt();
    }

    y = chair[x];
    return y;

}

public String getSeat(){
    return y;
}

}
```

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```
Welcome to the Cinema
Your Name:
feras
Your ID
2140447
(-----)
      The movies      The price
1- Lord of the rings    60 RS
2- The Batman           80 RS
3- Man of steel         100 RS
4- Joker                65 RS
(-----)
2
chose the time
1- 6:00 PM
2- 8:00 PM
3- 10:00 PM
4- 12:00 AM
4
Chose your seat
1-A1 2-A2 3-A3 4-A4 5-A5 6-A6 7-A7 8-A8 9-A9
10-B1 11-B2 12-B3 13-B4 14-B5 15-B6 16-B7 17-B8 18-B9
19-C1 20-C2 21-C3 22-C4 23-C5 24-C6 25-C7 26-C8 27-C9
28-D1 29-D2 30-D3 31-D4 32-D5 33-D6 34-D7 35-D8 36-D9

22
The Movie: The Batman
Your seat is : C4
Time is: 12:00 AM
price is: 80 RS
Do you want to make another reservation?
1-Yes
2-No
1
(-----)
      The movies      The price
1- Lord of the rings    60 RS
```

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```
THE MOVIE: THE BATMAN
Your seat is : C4
Time is: 12:00 AM
price is: 80 RS
Do you want to make another reservation?
1-Yes
2-No
1
(-----|-----)
      The movies           The price
1- Lord of the rings      60 RS
2- The Batman             80 RS
3- Man of steel           100 RS
4- Joker                  65 RS
(-----)
2
chose the time
1- 6:00 PM
2- 8:00 PM
3- 10:00 PM
4- 12:00 AM
4
Chose your seat
1-A1 2-A2 3-A3 4-A4 5-A5 6-A6 7-A7 8-A8 9-A9
10-B1 11-B2 12-B3 13-B4 14-B5 15-B6 16-B7 17-B8 18-B9
19-C1 20-C2 21-C3 22-C4 23-C5 24-C6 25-C7 26-C8 27-C9
28-D1 29-D2 30-D3 31-D4 32-D5 33-D6 34-D7 35-D8 36-D9

23
The Movie: The Batman
Your seat is : C5
Time is: 12:00 AM
price is: 80 RS
Do you want to make another reservation?
1-Yes
2-No
2
```

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```
Cinma - المفكرة   
ملف تحرير تنسيق عرض تعليمات  
Name: feras  
ID: 2140447  
The Movie: The Batman  
The seat is : C4  
Time is: 12:00 AM  
Name: feras  
ID: 2140447  
The Movie: The Batman  
The seat is : C5  
Time is: 12:00 AM
```