**PROJECT BASED LAB REPORT**

**On**

**CINEMA THEATRE INFORMATION SYSTEM**

**Submitted in partial fulfilment of the**

**Requirements for the award of the Degree of**

**Bachelor of Technology**

**In**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**By**

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**K L University**

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**2016-2017**

**K L University**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**



***CERTIFICATE***

This is to certify that this project based lab report entitled **“Cinema Theatre Information System”** is a bonafide work done by  **ROHINI PANDIRI 2100031934**in partial fulfilment of the requirements for the award of degree in **BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING** in during the Academic year 2016-2017.

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***DECLARATION***

We hereby declare that this project based lab report titled **“Cinema Theatre Information System”** has been prepared by us in partial fulfilment of the requirements for the award of degree “**BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION EENGINEERING**” during the Academic year 2016-2017.

We also declare that this project based lab report is of our own efforts and it has not been submitted to any other university for the award of any degree.

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**ROHINI PANDIRI 2100031934**

**CONTENTS**

**S.no CONTENT**

**1. ABSTRACT**

**2. INTRODUCTION**

**3. FUNCTIONAL REQUIREMENTS**

**4. NON-FUNCTIONAL REQUIREMENTS**

**5. CODE**

**6. OUTPUT**

**ABSTRACT**:

This project is aimed at developing an online cinema theatre information system. The cinema theatre information system is an Internet based application that can be accessed throughout the Net and can be accessed by anyone who has a net connection. This application will provide the required information about the theatre for the user. This system provides a website for a cinema hall where any user of internet can access it. This project is to develop a website or application that contains the theatre information including the number of screens available in the theatre. And also gives the information about the movies running on the respective screen and timing of the show. The availability of the seats for desired movie and show can be known. The information system also includes the address of the theatre. This system makes the user satisfied with the desired information about the movie liked to see. Being comfortable at own place one can access to the application developed by this project and get the information required about the cinema theatre in the local area.

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**INTRODUCTION**

* This project is aimed to provide the customers facility to know information about cinema theatre and the movies playing in the particular theatres online anytime anywhere.
* E-ticket system is basically made for providing the customer an anytime and anywhere service for booking the seat in the cinema hall and to gather information about the movies online. The user can easily be able to know about the movies released and then make the choice.
* In this project, we will illustrate our by providing the user to find his desired movie sand liked theatre in his particular area.
* The main purpose of our online ticket booking system is to provide another way for the customer to buy cinema ticket. It is automatic system.
* This system is basically aimed to provide the customer the complete information of the movie, according to which the customer can book the tickets and the refund facility provides more flexibility to the system.
* The goals of our project are:

1. To provide a anytime anyplace service for the customer.
2. To minimize the number of staff at the ticket box.
3. To promote the film on the internet.
4. To increase the profit.

🡪**Platform Requirements:-**

|  |  |  |
| --- | --- | --- |
| **Hardware/Software** | **Hardware / Software element** | **Specification /version** |
| **Hardware** | Processor | Intel core to duo |
| RAM | 1 GB |
| Hard Disk | 100 GB |
| **Software** | OS | Windows 8 |
| Java and Net Beans IDE |  |

**DESCRIPTION:**

**AIM:-**

To write the JAVA code for the following program.

1. Managing theatre records and information.
2. Managing the customer details.
3. Tracking location.
4. Menu design and integration of all modules.

**3.1. DESCRIPTION OF MODULES**

**3.1.1. MODULE 1:-**

Here we will be creating theatre information with details like theatre name and number of screens in it. Here each and every record has to be entered manually through keyboard, where it asks the user to his preference of movie and screen. After entering the preferences through proper format those details which user gives can be accessed. In this module we will be able to search the details of any theatre in the local area, where details will be in the form of theatre names, screens available, area. Here in this module formatter file takes control of all the things for searching the complete deatails of customer. Here in generating reports we will be able to display all the details of customer file with derails in the form of files.

**3.1.2. MODULE 2:-**

Here we will be giving required information with details like movie name, theatre name, seat no., screen no. Here each and every record has to be entered manually through keyboard, where it asks the user to save how many records he need to enter. After entering those records through proper format those details which user gives can be saved. In this module we will be able to update the details of customer through the records which are present in the form of name. Here we can search those details either through bill no. If any extra details have to be added we will update those details in place of previous details. In this module we will be able to search the details of customer bills which are present in files, where we can search those details through bill number. Here in this module formatter file takes control of all the things for searching the complete details of customer. Here in generating reports we will be able to display all the details of cinema theatre.

**3.1.3. MODULE 3:-**

After all modules were integrated through files we display System Banner as CINEMA THEATRE INFORMATION SYSTEM. Here Processing Menu can be done through switch case statement with all the modules that are present in the file. Here integration is done to all the modules by using switch case. To provide Security we need to add user name and password with login credentials where user will able to access his details with valid login credentials so that he can be able to create files, search a file and display record of that file, where as in admin module the admin also has to access his entire details with username and password where he can be able to do modifications for files that are present in user module.

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**FUNCTIONAL REQUIREMENTS**

**Purpose**  
  The purpose of doing this project is to provide all the requirements for the theatre Information System. The user can search easily anything regarding the theatres he want with moving here and there .This will make his time manageable and there will no waste of time in going out.  

|  |  |  |  |
| --- | --- | --- | --- |
| 1 |  | Theatre information |  |
|  |  | To search for the theatre the user need | Here we will be creating the list of details of theatre showing Name of theatre, address of theatre, identity etc. |
|  |  | Displays all facility details that theatre provided | This is used maintain the details of the screens and the theatre details for the use |
|  |  | To search facilities in the theatre | This is used to search a theatre details when user gives a particular search number of that movies name. |
|  |  | To generate details | Here in generating reports we will be able to display all the details of records of movies with details in the form of files. |
| 2 |  | Main Module |  |
|  |  | To display System | After all modules were integrated through files we display the complete information. |
|  |  | To process menu | Here **Processing Menu** can be done through if else statements with all the modules that is present in the file. |
|  |  | Initializations | Here **Initializations** can be done to methods, variables as well as objects which are present in classes |
|  |  | To access | To provide easy access **we** informed everything to user which will able to access his details. We can be able to read the file and record of that file, and write that file where he can be able to do modifications for files that are present. |

**NON-FUNCTIONAL REQUIREMENTS**

STATIC KEYWORD:

All instances share the same copy of the variable. A class variable can be accessed directly with the class, without the need to create a instance.

SWITCH CASE:

In computer programming languages, a switch statement is a type of selection control mechanism used to allow the value of a variable or expression to change the control flow of program execution via a multiway branch.

INNER/OUTER CLASS:-

A static inner class is a nested class which is a static member of the outer class. It can be accessed without instantiating the outer class, using other static members. Just like static members, a static nested class does not have access to the instance variables and methods of the outer class.

FILES:-

A Java class file is a file (with the .class filename extension) containing Javabytecode that can be executed on the Java Virtual Machine (JVM). A Java class file is produced by a Java compiler from Java programming language source files(.java files) containing Java classes.

**CODE:-**

import java.util.\*; // header file

import java.io.\*;

class Project12

{

static

{

System.out.println("\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t \t MOVIE THERTRE'S LIST IN GUNTUR");

System.out.println("\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t 1 \t HOLLYWOOD");

System.out.println("\t 2 \t CINESQUARE");

System.out.println("\t 3 \t SWAMY");

}

static class Abc

{

void info()

{

try

{

File fl=new File("info.txt");

if(!fl.exists())

{

fl.createNewFile();

}

BufferedWriter pw5=new BufferedWriter(new FileWriter("info.txt",true));

long a;

String n;

Scanner spf=new Scanner(System.in);

System.out.println("\n\n\t\t enter the name of the customer:");

n=spf.next();

System.out.println("\n\n\t\t enter the mobile number of the customer:");

a=spf.nextInt();

pw5.write("\n\n\t\t name of the customer is:"+n);

pw5.write("\n\n\t\t mobile number of the customer is:"+a);

pw5.close();

}

catch(IOException e)

{

System.out.println(e.getMessage());

}

}

}

public static void main(String args[])

{

Abc obh = new Abc();

obh.info();

Scanner sp= new Scanner(System.in);// scanner class

int p2;

System.out.println("for theatre information type 1 else other than 1 for booking ");

p2=sp.nextInt();

while(p2==1)

{

theatres tp=new theatres();

tp.mes();

System.out.println("for any other theatre information press 1 or else any other number ");

p2=sp.nextInt();

}

if(p2!=0)

{

int n=0;

test t= new test();

t.menu();

System.out.println("choose one ");

n=sp.nextInt();

switch(n)

{

case 1:

t.Holly();

break;

case 2:

t.cine();

break;

case 3:

t.swamy();

break;

default:

System.out.println("select correct option");

} } }}

class theatre

{

void mes(){

Scanner sd= new Scanner(System.in);// scanner class

int np=0;

theatrs tc = new theatrs();

System.out.println("choose one ");

np=sd.nextInt();

switch(np)

{

case 1:

tc.Holly();

break;

case 2:

tc.cine();

break;

case 3:

tc.swamy();

break;

default:

System.out.println("select correct option");

}

}

}

class theatrs {

void Holly()

{

System.out.println(" location : lakshmipuram main road");

System.out.println(" no of screens : 3");

System.out.println(" facilities : ");

System.out.println(" architecture : good ");

System.out.println(" sound quality : cube ");

System.out.println(" 3D : no ");

System.out.println(" canteen : cool ");

System.out.println(" toilets : neatly maintained ");

System.out.println(" theatre grading : A+");

System.out.println(" contact number 1 : 0863 233 0390");

System.out.println(" contact number 2 : 9494930408");

}

void cine()

{

System.out.println(" location : Amaravathi road");

System.out.println(" no of screens : 3");

System.out.println(" facilities : ");

System.out.println(" architecture : excellent ");

System.out.println(" sound quality : Dobly atoms ");

System.out.println(" 3D : yes ");

System.out.println(" canteen : cool ");

System.out.println(" toilets : neatly maintained ");

System.out.println(" theatre grading : A++");

System.out.println(" contact number : 080993 87148 ");

}

void swamy()

{

System.out.println(" location : pattabipuram");

System.out.println(" no of screens : 3");

System.out.println(" facilities : ");

System.out.println(" architecture : good ");

System.out.println(" sound quality : Dobly atoms ");

System.out.println(" 3D : no ");

System.out.println(" canteen : cool ");

System.out.println(" toilets : neatly maintained ");

System.out.println(" theatre grading : A");

System.out.println(" contact number : 9666521169"); }}

class test{

void menu()

{

System.out.println("\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t \t MOVIE THERTRE'S LIST IN GUNTUR");

System.out.println("\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t 1 \t HOLLYWOOD");

System.out.println("\t 2 \t CINESQUARE");

System.out.println("\t 3 \t SWAMY");

}

void Holly()

{

System.out.println("\t Welcome to hollywood ");

System.out.println("\t screen 1 \t BHAHUBALI THE CONCLUSION \t 7th March 2017 ");

System.out.println("\t screen 2 \t GHAZI \t 7th March 2017 ");

System.out.println("\t screen 3 \t LOVE BISCUIT \t 7th March 2017");

moive m= new moive();

m.movieb();

}

void cine()

{

System.out.println("\t screen 1 \t BHAHUBALI THE CONCLUSION \t 7th March 2017 ");

System.out.println("\t screen 2 \t GHAZI \t 7th March 2017 ");

System.out.println("\t screen 3 \t LOVE BISCUIT \t 7th March 2017");

moive m= new moive();

m.movieb();

}

void swamy()

{

System.out.println("\t screen 1 \t BHAHUBALI THE CONCLUSION \t 7th March 2017 ");

System.out.println("\t screen 2 \t GHAZI \t 7th March 2017 ");

System.out.println("\t screen 3 \t LOVE BISCUIT \t 7th March 2017");

moive m= new moive();

m.movieb();

}

class moive // inner class 1 for test

{

void movieb()

{

int a=0;

System.out.println("enter ur option");

Scanner sc= new Scanner(System.in);

a=sc.nextInt();

switch(a)

{

case 1:

bhahu();

break;

case 2:

ghazi();

break;

case 3:

lovebisc();

break;

default:

System.out.println("select correct option");

}

}

void bhahu()

{

System.out.println("timings : ");

System.out.println("\t 1. \t morning show : 10.00 to 12.30 ");

System.out.println("\t 2. \t noon show : 2.00 to 4.30 ");

System.out.println("\t 3. \t first show : 6.00 PM to 8.30 PM");

System.out.println("\t 4. \t second show : 10.00 PM to 12.30 PM ");

booking b= new booking();

b.book(); }

void ghazi()

{

System.out.println("timings : ");

System.out.println("\t 1. \t morning show : 10.00 to 12.30 ");

System.out.println("\t 2. \t noon show : 2.00 to 4.30 ");

System.out.println("\t 3. \t first show : 6.00 PM to 8.30 PM");

System.out.println("\t 4. \t second show : 10.00 PM to 12.30 PM ");

booking b= new booking();

b.book();

}

void lovebisc()

{

System.out.println("timings : ");

System.out.println("\t 1. \t morning show : 10.00 to 12.30 ");

System.out.println("\t 2. \t noon show : 2.00 to 4.30 ");

System.out.println("\t 3. \t first show : 6.00 PM to 8.30 PM");

System.out.println("\t 4. \t second show : 10.00 PM to 12.30 PM ");

booking b= new booking(); // object creation for class booking

b.book(); // calling method from booking class

}

}

class booking // inner clas 2 for test

{

void book()

{

System.out.println("enter ur option");

Scanner sc2=new Scanner(System.in);

int b3;

b3=sc2.nextInt();

book2();

}

void book2()

{

int

b1;int s=0;

Scanner sc3=new Scanner(System.in);

System.out.println("Total number of seats in first class = 100");

System.out.println("Total number of seats in second class = 50");

System.out.println("Total number of seats in third class = 50");

System.out.println("\t 1.first class 100 rupees");

System.out.println("\t 2.second class 70 rupees ");

System.out.println("\t 3.third class 50 rupees ");

System.out.println("\t select ur option ");

b1=sc3.nextInt();

int i,j,k;

int b;

System.out.println("enter row);

i=sc3.nextInt();

System.out.println("number of seats");

b=sc3.nextInt();

System.out.println("enter starting seat number");

j=sc3.nextInt();

System.out.println("enter ending seat number");

k=sc3.nextInt();

k=k+64;

System.out.println("ur row number");

System.out.println(i);

System.out.println("Seat numbers");

for(int d=j+64;d<=k;d++)

{

char sp=(char)d;

System.out.print(sp+" ");

}

System.out.println();

switch(b1)

{

case 1:

s=100\*b;

break;

case 2:

s=70\*b;

break;

case 3:

s=50\*b;

break;

default :System.out.println("enter correct option");

System.out.println("cost");

System.out.println(s);

}

}}

**OUTPUT:**

**SCREEN SHOTS:**

****

**CONCLUSION:-**

From all the above modules we can conclude that we can give the cinema theatre information for registered customer. We assure that this system gives the required information of the movie and the theatre desired by the customer.

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