COMPUTER SCIENCE PROJECT FILE

TERM-1

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XII A-2

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<u>**Acknowledgement**</u>

We would like to express our special thanks and gratitude to our Computer Science teacher Mrs. <u>Guneet Kaur</u> who gave us the golden opportunity to do this wonderful project on the topic <u>MOVIE TICKET BOOKING SYSTEM</u>, which also helped us in doing a lot of research and we came to know about so many new things we are really thankful Secondly, we would like to thank our parents for providing us with necessary resources and lastly, each other for the cooperation to complete the project in time.

MOVIE TICKET BOOKING SYSTEM

The Movie Booking System has been developed to override the problems prevailing in the practice of manual systems. This software is supposed to reduce the hardships faced by the existing system. Moreover this system is designed to carry out the operations in a smooth and effective manner. You can book your tickets by ticket booking app and also pre-book your theater seats . The application is simplified as much as possible to avoid errors while entering the data. No formal knowledge is needed for the user to use this system, thus making it a User- friendly system. The system can lead to error free, secure, reliable and fast processing. It can assist the user to concentrate on other activities rather than record keeping. Thus, it will help any organization in better utilization of resources.

Objective:

The software helps customers to <u>find different movie tickets according to the position in the hall, price and comfort.</u> It will show all the available and booked seats.The software will help in maintaining and <u>updating booked seats, managing customer data,</u> and will show error if any invalid detail is entered. The software will be helpful in <u>smooth functioning of the theaters.</u>
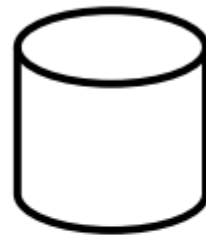
TOOLS & TECHNOLOGIES TO BE USED:

PYTHON   **MYSQL**

Front End   **Back End**

(Interface visible to the user)   (Database)

FRONT END PYTHON:

Why Python?

- Easy to read, learn and write ; it has English like syntax
- Improved productivity
- Interpreted language
- Dynamically typed
- Free and open source
- Vast libraries support, portability

BACK END MYSQL:

Why MYSQL?

- Data security
- On-Demand Scalability
- High Performance
- Round the clock uptime
- Comprehensive transactional support
- Complete workflow control
- Reduced total cost of ownership
- The flexibility of open source

Purpose of the project:

→ The main purpose is to automate the ticket booking process.

→ It has been designed to make the process more efficient and less time consuming

<u>CONCLUSION:</u>

The project entitled "Movie Ticket Booking System" is developed
using <u>Python </u>as front end and <u>MYSQL </u>in the back end to computerize the process of movie ticket booking. This project covers <u>all the basic features required</u> and can be <u>further scaled with the help of advanced technology</u>.

1) Program Code

```python
import pymysql as ps
import math
import os
from pyfiglet import figlet_format
import time
sqlpass=input()

os.system('cls')
s="insert into userinfo values(%s,%s,%s,%s)"

Movie1="83"
Movie2="Spider-man:No way home"
Movie3="Encanto"
Movie4="The house of dead"

available_seats1=[1,2,3,7,8,9,10,11,12,13,14,17,18,19,20]
booked_seats1=[]
available_seats2=[1,2,3,4,5,6,7,8,9,10,11,12,15,16,17,18,19,20]
booked_seats2=[]
available_seats3=[1,2,3,4,5,6,7,8,9,10,19,20]
booked_seats3=[]
available_seats4=[8,9,10,11,12,13,14,15,1]
booked_seats4=[]

def ticket(name,age,phonenumber,seats_booked,MOVIE):
    print()
    print("----------- PVR  DUBAI -----------")
    print("----------- E-TICKET -----------")
    print("MOVIE --",MOVIE)
    print("1:45pm SUN 24/03/22")
    print("Your seat number: ",end=" ")
```

```python
        print("MOVIE --",MOVIE)
        print("1:45pm SUN 24/03/22")
        print("Your seat number: ",end=" ")
        for i in seats_booked:
            if seats_booked.index(i)==(len(seats_booked)-1):
                print("E"+str(math.ceil(i//5)),i,sep="-")
            else:
                print("E"+str(math.ceil(i//5)),i,sep="-",end=",")
        print("Your tickets will be sent through SMS on your registered mobile number.")
        time.sleep(10)
        print()

def tandc():
    print("""**************************************** TERMS & CONDITIONS ****************************************
Pre-booked Food & Beverages have to be collected by the patron from the F&B counter by showing the Booking ID.
1. Ticket is compulsory for children of 3 years & above.
2. Incase the ticket is lost or misplaced, duplicate ticket will not be issued.
3. Outside food & beverages are not allowed inside the cinema premises.
4. Decision(s) taken by Cinepolis management is final & abiding.
5. For 3D movies, ticket price includes charges towards usage of 3D glasses.
6. Patrons below the age of 18 years will not be allowed to watch the 'A' rated movie.""")

def welcome_screen():
    print("*********************************")
    print("*********************************")
    print("******Welcome to PVR DUBAI******")
    print("!!!Get tickets on your mobile!!!")
    print("*********************************")
    print("*********************************")
    time.sleep(5)
    os.system('cls')
```

```python
    os.system('cls')
    main()

def status_bar(movie_number):
    if movie_number==1:

        for i in range(1,21):
            if i==1:
                print("E1",end=" ")
            elif i==6:
                print("E2",end=" ")
            elif i==11:
                print("E3",end=" ")
            elif i==16:
                print("E4",end=" ")

            if i not in available_seats1:
                print("[XX]",end=" ")
            else:
                if i<10:
                    print("[0"+str(i)+"]",end=" ")
                else:
                    print("["+str(i)+"]",end=" ")
            if i%5==0:
                print()
    elif movie_number==2:
        for i in range(1,21):
            if i==1:
                print("E1",end=" ")
            elif i==6:
                print("E2",end=" ")
```

```python
            print("E1",end=" ")
        elif i==6:
            print("E2",end=" ")
        elif i==11:
            print("E3",end=" ")
        elif i==16:
            print("E4",end=" ")

        if i not in available_seats2:
            print("[XX]",end=" ")
        else:
            if i<10:
                print("[0"+str(i)+"]",end=" ")
            else:
                print("["+str(i)+"]",end=" ")
        if i%5==0:
            print()
elif movie_number==3:
    for i in range(1,21):
        if i==1:
            print("E1",end=" ")
        elif i==6:
            print("E2",end=" ")
        elif i==11:
            print("E3",end=" ")
        elif i==16:
            print("E4",end=" ")

        if i not in available_seats3:
            print("[XX]",end=" ")
        else:
```

```python
        else:
            if i<10:
                print("[0"+str(i)+"]",end=" ")
            else:
                print("["+str(i)+"]",end=" ")
        if i%5==0:
            print()
elif movie_number==4:
    for i in range(1,21):
        if i==1:
            print("E1",end=" ")
        elif i==6:
            print("E2",end=" ")
        elif i==11:
            print("E3",end=" ")
        elif i==16:
            print("E4",end=" ")

        if i not in available_seats4:
            print("[XX]",end=" ")
        else:
            if i<10:
                print("[0"+str(i)+"]",end=" ")
            else:
                print("["+str(i)+"]",end=" ")
        if i%5==0:
            print()


    """
    E1 [01] [02] [03] [04] [05]
```

```
    """
    E1 [01] [02] [03] [04] [05]
    E2 [06] [XX] [08] [XX] [10]
    E3 [11] [12] [13] [14] [XX]
    E4 [16] [17] [18] [18] [20]

    """

def main():
    print(figlet_format('USER        ADMIN', font='digital'))
    design=input("Select who you want to continue as: ")

    #admin
    if design=="admin" or design=="Admin" or design=="2" or design=="ADMIN":
        myconnector=ps.connect(host="localhost",user="root",password=sqlpass,database="pvr")
        mycursor=myconnector.cursor()
        passs=input("Enter you password: ")
        if passs=="PVRROCKS" or passs=="pvrrocks":
            os.system('cls')
            time.sleep(5)
            print("""
1.View spreadsheet
2.Search for records
3.Delete records
4.Delete the table""")
```

```python
        option=int(input("Select your option: "))
        if option==1:
            mycursor.execute("select * from userinfo")
            output=mycursor.fetchall()
            for i in output:
                for j in i:
                    print(j,end=" ")
                print()
            time.sleep(10)


        elif option==2:

            print("""
1.Search by name
2.Search by age
3.Search by phone number
4.Search by email """)
            search=int(input("Select an option: "))
            if search==1:
                name=input("Enter the name: ")
                name="%"+name+"%"
                mycursor.execute("select * from userinfo where NAME like %s",name)
                output=mycursor.fetchall()
                for i in output:
                    for j in i:
                        print(j,end=" ")
                    print()
                time.sleep(10)

            elif search==2:
            elif search==2:
                age=input("Enter the age: ")
                mycursor.execute("select * from userinfo where AGE= %s",age)
                output=mycursor.fetchall()
                for i in output:
                    for j in i:
                        print(j,end=" ")
                    print()
                time.sleep(10)
            elif search==3:
                phno=input("Enter the phone number: ")
                mycursor.execute("select * from userinfo where PHONENUMBER= %s",phno)
                output=mycursor.fetchall()
                for i in output:
                    for j in i:
                        print(j,end=" ")
                    print()
                time.sleep(10)
            elif search==4:
                em=input("Enter the email: ")
                em="%"+em+"%"
                mycursor.execute("select * from userinfo where EMAIL like %s",em)
                output=mycursor.fetchall()
                for i in output:
                    for j in i:
                        print(j,end=" ")
                    print()
                time.sleep(10)
        elif option==3:

            print("""
```

```python
        elif option==3:

            print("""
1.Delete by name
2.Delete by age
3.Delete by phone number
4.Delete by email """)
            delete=int(input("Select an option: "))
            if delete==1:
                name=input("Enter the name: ")
                name="%"+name+"%"
                mycursor.execute("delete from userinfo where name like %s",name)
                print("The Updated table is as follows:")
                mycursor.execute("select * from userinfo")
                output=mycursor.fetchall()
                for i in output:
                    for j in i:
                        print(j,end=" ")
                    print()
                time.sleep(10)
            elif delete==2:
                age=input("Enter the age: ")
                mycursor.execute("delete from userinfo where age=%s",age)
                print("The Updated table is as follows:")
                mycursor.execute("select * from userinfo")
                output=mycursor.fetchall()
                for i in output:
                    for j in i:
                        print(j,end=" ")
                    print()
                time.sleep(10)
                        print(j,end=" ")
                    print()
                time.sleep(10)
            elif delete==3:
                phnum=input("Enter the phonenumber: ")
                mycursor.execute("delete from userinfo where phonenumber=%s",phnum)
                print("The Updated table is as follows:")
                mycursor.execute("select * from userinfo")
                output=mycursor.fetchall()
                for i in output:
                    for j in i:
                        print(j,end=" ")
                    print()
                time.sleep(10)
            elif delete==4:
                em=input("Enter the email: ")
                em="%"+em+"%"
                mycursor.execute("delete * from userinfo where email=%s",em)
                print("The Updated table is as follows:")
                mycursor.execute("select * from userinfo")
                output=mycursor.fetchall()
                for i in output:
                    for j in i:
                        print(j,end=" ")
                    print()
                time.sleep(10)

        elif option==4:
            mycursor.execute("drop table userinfo")
    #user
    else:
```

```python
#user
else:
    username=input("Enter username: ")

    while True:
        print()
        myconnector=ps.connect(host="localhost",user="root",password=sqlpass,database="pvr")
        mycursor=myconnector.cursor()
        name=input("Enter your full name: ")
        age=int(input("Enter your age: "))
        phn=input("Enter your phone number: ")
        email=input("Enter your email: ")
        while len(phn)!=10 and phn[0]=="0":
            phn=input("Please enter a valid phone number: ")
        phn=int(phn)

        time.sleep(3)
        os.system('cls')
        print("Movie's available:")
        print("1. 83")
        print("2. Spider-man:No way home")
        print("3. Encanto")
        print("4. The house of the dead")
        print()
        movie_number=int(input("Select your movie number: "))
        tandc()
        time.sleep(5)
        print()
        x=input("If you accept the terms, press enter ")
        if x=="":
            os.system('cls')
```

```python
        if x=="":
            os.system('cls')
            total_number_seats=int(input("How many seats? "))
            seats_booked=[]
            if movie_number==1:
                if total_number_seats<=len(available_seats1):
                    print("---SELECT SEATS---")
                    status_bar(1)
                    seats_booked=[]
                    while len(seats_booked)<total_number_seats:
                        select_seats=int(input("Select seats number: "))
                        if select_seats in available_seats1:
                            seats_booked.append(select_seats)
                            booked_seats1.append(select_seats)
                            available_seats1.remove(select_seats)
                        else:
                            print("This seat is sold!!!, Please select some other seat.")
                    ticket(name,age,phn,seats_booked,Movie1)



                else:
                    print("We don't have enough seats available.")

            elif movie_number==2:
                if total_number_seats<=len(available_seats2):
                    print("---SELECT SEATS---")
                    status_bar(2)
                    seats_booked=[]
                    while len(seats_booked)<total_number_seats:
                        select_seats=int(input("Select seats number: "))
```

```python
                        seats_booked=[]
                        while len(seats_booked)<total_number_seats:
                            select_seats=int(input("Select seats number: "))
                            if select_seats in available_seats2:
                                seats_booked.append(select_seats)
                                booked_seats2.append(select_seats)
                                available_seats2.remove(select_seats)
                            else:
                                print("This seat is sold!!!, Please select some other seat.")
                        ticket(name,age,phn,seats_booked,Movie2)

                    else:
                        print("We don't have enough seats available.")
                elif movie_number==3:
                    if total_number_seats<=len(available_seats3):
                        print("---SELECT SEATS---")
                        status_bar(3)
                        seats_booked=[]
                        while len(seats_booked)<total_number_seats:
                            select_seats=int(input("Select seats number: "))
                            if select_seats in available_seats3:
                                seats_booked.append(select_seats)
                                booked_seats3.append(select_seats)
                                available_seats3.remove(select_seats)
                            else:
                                print("This seat is sold!!!, Please select some other seat.")
                        ticket(name,age,phn,seats_booked,Movie3)

                    else:
                        print("We don't have enough seats available.")

                elif movie_number==4:
                    if total_number_seats<=len(available_seats4):
                        print("---SELECT SEATS---")
                        status_bar(4)
                        seats_booked=[]
                        while len(seats_booked)<total_number_seats:
                            select_seats=int(input("Select seats number: "))
                            if select_seats in available_seats4:
                                seats_booked.append(select_seats)
                                booked_seats4.append(select_seats)
                                available_seats4.remove(select_seats)
                            else:
                                print("This seat is sold!!!, Please select some other seat.")
                        ticket(name,age,phn,seats_booked,Movie4)
                        mycursor.execute(s,(name,age,phn,email))
                        myconnector.commit()
                    else:
                        print("We don't have enough seats available.")

                else:
                    print("This movie doesn't exist. Please select some other movie.")
                mycursor.execute(s,(name,age,phn,email))
                myconnector.commit()
                myconnector.close()
        else:
            print()
            print("Have a nice day :)")
            time.sleep(5)

welcome_screen()
```

2) Output:

a) Entering the program as USER:


```
C:\Windows\py.exe
**********************************
**********************************
******Welcome to PVR DUBAI******
!!!Get tickets on your mobile!!!
**********************************
**********************************
```



```
C:\Windows\py.exe
+-+-+-+-+          +-+-+-+-+-+
|U|S|E|R|          |A|D|M|I|N|
+-+-+-+-+          +-+-+-+-+-+

Select who you want to continue as: user
Enter username: parinay602

Enter your full name: Parinay Panwar
Enter your age: 17
Enter your phone number: 7065597555
Enter your email: parinay602@gmail.com
```



```
C:\Windows\py.exe                                                        —    □    ✕
Movie's available:
1. 83
2. Spider-man:No way home
3. Encanto
4. The house of the dead

Select your movie number: 1
********************************** TERMS & CONDITIONS **********************************
Pre-booked Food & Beverages have to be collected by the patron from the F&B counter by showing the Booking ID.
1. Ticket is compulsory for children of 3 years & above.
2. Incase the ticket is lost or misplaced, duplicate ticket will not be issued.
3. Outside food & beverages are not allowed inside the cinema premises.
4. Decision(s) taken by Cinepolis management is final & abiding.
5. For 3D movies, ticket price includes charges towards usage of 3D glasses.
6. Patrons below the age of 18 years will not be allowed to watch the 'A' rated movie.

If you accept the terms, press enter
```

```
C:\Windows\py.exe                                    —  □  ✕
How many seats? 5
---SELECT SEATS---
E1 [01] [02] [03] [XX] [XX]
E2 [XX] [07] [08] [09] [10]
E3 [11] [12] [13] [14] [XX]
E4 [XX] [17] [18] [19] [20]
Select seats number: 1
Select seats number: 2
Select seats number: 15
This seat is sold!!!, Please select some other seat.
Select seats number: 12
Select seats number: 13
Select seats number: 14

----------- PVR  DUBAI -----------
------------ E-TICKET ------------
MOVIE -- 83
1:45pm SUN 24/03/22
Your seat number:  E0-1,E0-2,E2-12,E2-13,E2-14
Your tickets will be sent through SMS on your registered mobile number.
```



```
C:\Windows\py.exe
How many seats? 5
---SELECT SEATS---
E1 [01] [02] [03] [XX] [XX]
E2 [XX] [07] [08] [09] [10]
E3 [11] [12] [13] [14] [XX]
E4 [XX] [17] [18] [19] [20]
Select seats number: 1
Select seats number: 2
Select seats number: 15
This seat is sold!!!, Please select some other seat.
Select seats number: 12
Select seats number: 13
Select seats number: 14

----------- PVR  DUBAI -----------
------------ E-TICKET ------------
MOVIE -- 83
1:45pm SUN 24/03/22
Your seat number:  E0-1,E0-2,E2-12,E2-13,E2-14
Your tickets will be sent through SMS on your registered mobile number.


Enter your full name: yashika
Enter your age: 17
Enter your phone number: 8920879323
Enter your email: yashikadixit1611@gmail.com
```

b)   Entering the program as ADMIN:

```
C:\Windows\py.exe

+-+-+-+-+         +-+-+-+-+-+
|U|S|E|R|         |A|D|M|I|N|
+-+-+-+-+         +-+-+-+-+-+

Select who you want to continue as: admin
Enter you password: PVRROCKS
```

```
C:\Windows\py.exe

    1.View spreadsheet
    2.Search for records
    3.Delete records
    4.Delete the table
Select your option: 1
Parinay Panwar 18 7065597555 parinay602@gmail.com
Parinay Panwar 18 9993339391 parinaypanwar@gmail.com
Parinay Panwar 18 9993339391 parinaypanwar@gmail.com
oreo 21 8826992621 oreobhai@gmail.com
dexy 19 8999012345 dexy@gmail.com
ruddy 16 9999399399 rudrakshi@gmail.com
Parinay Panwar 17 7065597555 parinay602@gmail.com
yashika 17 8920879323 yashikadixit1611@gmail.com
```

```
C:\Windows\py.exe

    1.View spreadsheet
    2.Search for records
    3.Delete records
    4.Delete the table
Select your option: 2

    1.Search by name
    2.Search by age
    3.Search by phone number
    4.Search by email
Select an option: 1
Enter the name: par
Parinay Panwar 18 7065597555 parinay602@gmail.com
Parinay Panwar 18 9993339391 parinaypanwar@gmail.com
Parinay Panwar 18 9993339391 parinaypanwar@gmail.com
Parinay Panwar 17 7065597555 parinay602@gmail.com
```

```
C:\Windows\py.exe

    1.View spreadsheet
    2.Search for records
    3.Delete records
    4.Delete the table
Select your option: 3

    1.Delete by name
    2.Delete by age
    3.Delete by phone number
    4.Delete by email
Select an option: 1
Enter the name: parinay
The Updated table is as follows:
oreo 21 8826992621 oreobhai@gmail.com
dexy 19 8999012345 dexy@gmail.com
ruddy 16 9999399399 rudrakshi@gmail.com
yashika 17 8920879323 yashikadixit1611@gmail.com
```