

# **MINI PROJECT REPORT ON “HOSTEL MANAGEMENT SYSTEM”**

submitted by

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## **ABSTRACT**

Hostel management system provides services for a college MITWPU where we have made registration process totally paperless as keeping manual records is very difficult. This system is takes care of the whole registration process which includes - registration of student , his/her guardian , booking request in his/her choice of hostel and room which are currently available and also provides a source for payment verification. This system also has two users namely - the manager of a particular hostel in MITWPU and the student who are verified as a student in our hostel. We have provided login option for both the users, students and employee. Now that we have registered the student we have created a verification which can be done only by the manager of that particular hostel. We have also implemented two way verification process where we take his phone number and id check with database and if valid then we allow to pass an OTP for login and also as soon as the manager confirms a persons booking in a particular hostel we have sent him a message saying he/she can now login as his booking has been confirmed. We have given specific roles to all the users like student has a student page where he can view all his details and add payment if there is any due and add complaints if any same for manager where he can add new rooms to his/her hostel , change or update the price of the rooms , verify student and also verify the complaints but students , he also has the role to register new employees to the hostel along with that specifying what is the role of the new employee. Keeping MITWPU hostels in mind we have created this whole system for only those who have a valid ERP ID given to us by the college during admission. The main purpose here is to reduce one to one communication and manual work by using GUI in tkinter (python) and reducing keeping records in pages by using mySQL.

**\*LIST OF FIGURES:-**

- ER DIAGRAM
- SCHEMA DIAGRAM

**\*LIST OF TABLES:-**

- Books
- Employee
- Guardian
- Hostel
- Payment
- Room
- Std phone
- Student

**\*LIST OF ABBREVIATIONS:-**

- MySQL:My Structured Query Language
- FK: Foreign key
- PK: Primary key
- Emp: Employee

# HOSTEL MANAGEMENT SYSTEM

## **\*PROBLEM DEFINITION :-**

A system is implemented which deals with student registration in a hostel and that shows hostel specification on a interface in created python and is managed by the managers(employees) which is specified in the database created in MYSQL. The system also deals with all registration steps involved namely – If the student is new , if new then allow registration by accepting correct student info and payment requirements and if student already exists in the system allow login using otp and show student details and hostel information required for student to contact or report issues.

## **\*TOOLS AND TECHNOLOGIES USED :-**

Implementation of hostel management system using MYSQL and python.

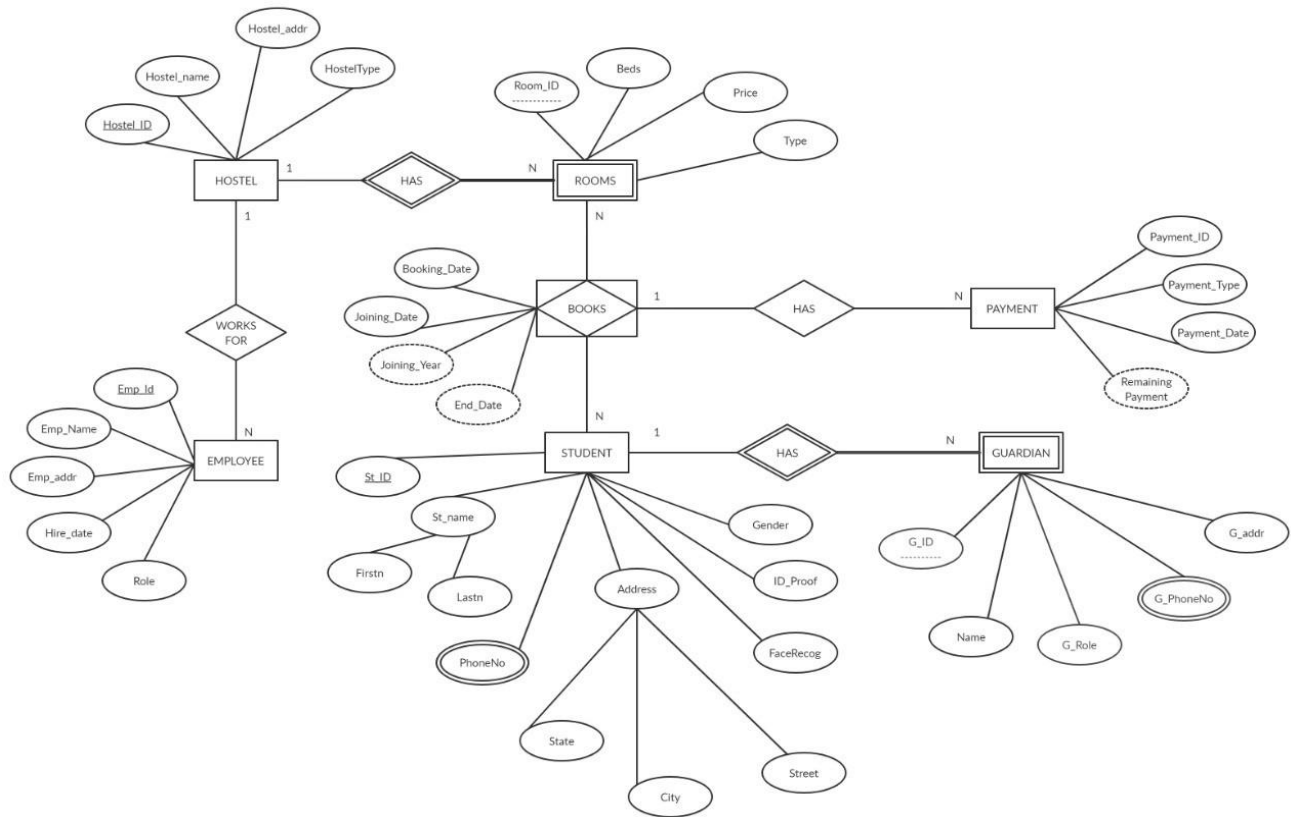
## **\*MOTIVATION :-**

This system allows the student to register for a specific room from a particular hostel . System displays hostel details and hostel specification. Interaction with the student is done using graphical interface created in python . The system checks if student exists or not by otp login process and if does not exist it allows to register in our system by registration process .The system permits multiple students to share the room depending upon the number of beds available and student requirements. This system also uses face recognition algorithm in by image processing in python and adding those into our database for attendance purposes or any other unique identification functions.

## **\*OBJECTIVE :-**

1. To reduce manual labor of insertion
2. To reduce keeping manual database student records
3. Insertion of new records is easy and fast in this
4. Easy to update student records by giving access to info through otp
5. Allows new students to register easily
6. Payment records / transaction maintenance is easy
7. This also allows to keep track of partial payments and due amounts
8. Access for student needs student\_id and face recognition
9. Face recognition algorithm is used to improve/safe implementation

**\*ER – DIAGRAM :-**



**\* SCHEMA :-**

HOSTEL(hostel\_id,hostel\_name,hostel\_addr,hoteltype)

ROOM (hostel\_id,room\_id, beds, price,type)

EMPLOYEE (hostel\_id,emp\_id,emp\_name,emp\_addr,hiredate,role)

STUDENT (st\_id,firstn,lastn,street,city,state,face recog,id\_proof,gender)

STD\_PHONE (st\_id,phoneno)

GUARDIAN (st\_id,g\_id,name,g\_role,g\_addr)

GD\_PHONE (st\_id,g\_id,phoneno)

BOOKS (booking\_id,hostel\_id,room\_id,st\_id,booking\_date,joining\_date)

PAYEMENT (payment\_id,booking\_id,payment\_type,amount,payment\_date)

**\*NORMALIZATION :-**

HOSTEL_ID	HOSTEL_NAME	ROOM_ID	PRICE	BEDS	TYPE	BOOKING_ID	BOOKING DATE
101	Vidya	2001	105000	2	Normal	1	2018-08-12
101	Sarathi	3001	125000	3	Balcony	2	2019-08-10
102	Shanti	2001	75000	2	Normal	3	2019-08-12
102	Avanti	2001	95000	2	Normal	4	2019-08-13

JOINING_DATE	ST_ID	ST_NAME	St_Address	Gender	PHONE_NO
2018-09-12	1032170317	Prajakta	Thane	Female	912809183
2019-09-10	1032170317	Prajakta	Thane	Female	263173791
2019-09-12	1032180389	Shreyas	Pune	Male	737173917
2019-09-13	1032180546	Savay	Solapur	Male	958945509

We have different anomalies in the above table.

- >Insertion anomaly: If we want to insert a room in this table we have to add the details of student as well.
- >Deletion anomaly: If a student decides to leave the hostel we would have to delete the entire record the Room for that hostel also gets deleted.
- >Updation anomaly: With redundant data, when we want to change the value of one columns of a particular Student, for example the ST\_NAME, we must update all the Student records that assigned to the particular Hostel roomt otherwise the database will become inconsistent.

The above table is in 1NF. For it to be in 2NF we need to remove the partial dependencies and convert it into new tables.

Primery key:

HOSTEL\_ID, ROOM\_ID, BOOKING\_ID, STUDENT\_ID

Functional Dependencies:

HOSTEL\_ID, ROOM\_ID, BOOKING\_ID, ST\_ID -

> PRICE, BEDS, TYPES, BOOKING\_DATE, JOINING\_DATE, ST\_ID, ST\_NAME, ST\_ADDR, GENDER, PHONE\_NO

HOSTEL\_ID, ROOM\_ID --> PRICE, BEDS, TYPE (Partial dependency)

ST\_ID --> ST\_NAME, ST\_ADDRESS, GENDER, PHONE\_NO. (Partial dependency)

2NF FORM:

Removing the partial dependency and creating a new table:

HOSTEL_ID	ROOM_ID	PRICE	BEDS	TYPE	
HOSTEL_ID	ROOM_ID	BOOKING_ID	ST_ID	BOOKING_DATE	JOINING_DATE
ST_ID	ST_NAME	ST_ADDR	GENDER	PHONE_NO	

3NF FORM:

We have to remove all the transitive dependencies if any. Since there are no transitive dependencies. The table is already in 3NF form.

Therefore,

BOOKING TABLE:

HOSTEL_ID	ROOM_ID	BOOKING_ID	ST_ID	BOOKING_DATE	JOINING_DATE
-----------	---------	------------	-------	--------------	--------------

ROOM TABLE :-

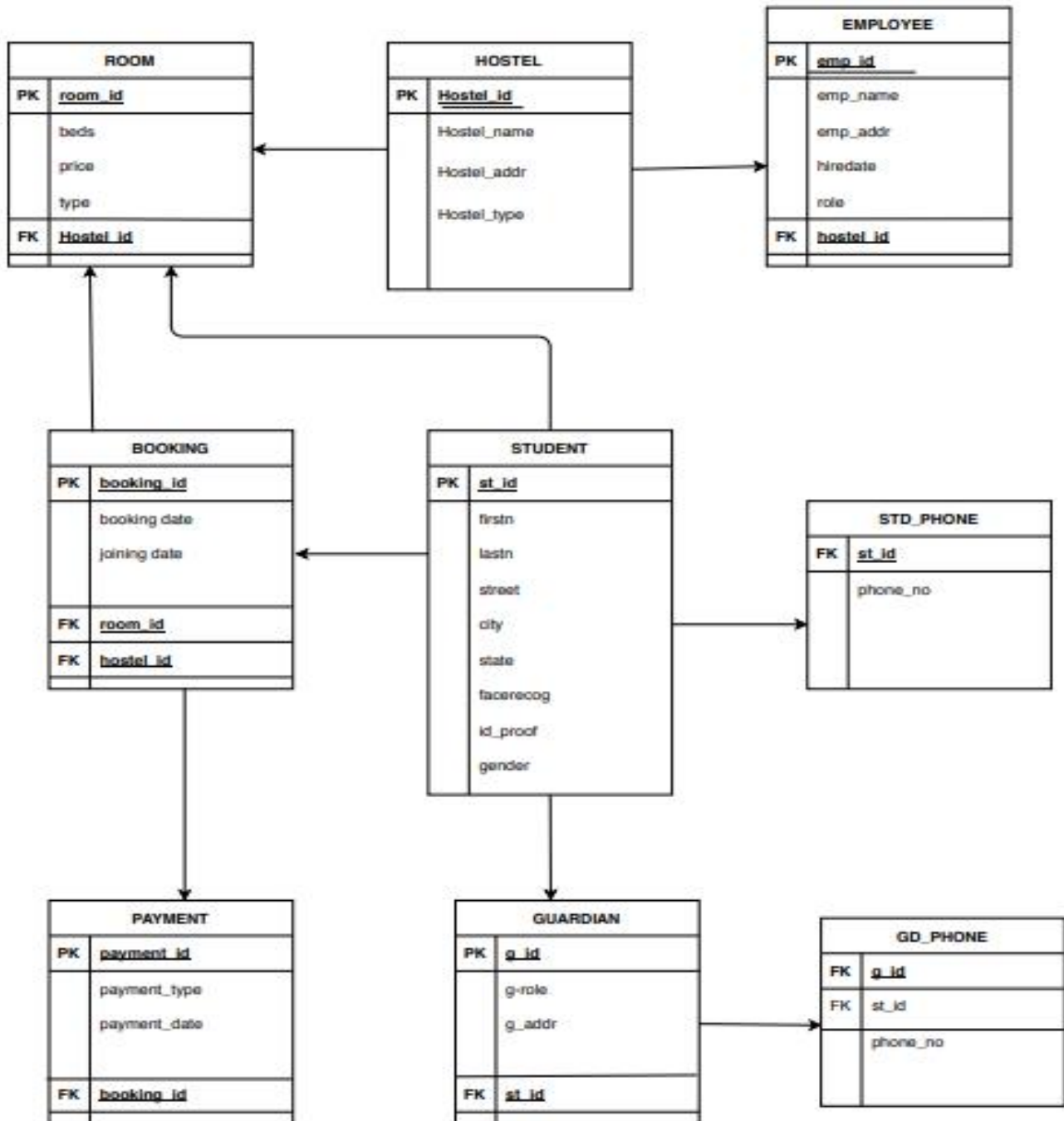
HOSTEL_ID	ROOM_ID	PRICE	BEDS	TYPE
-----------	---------	-------	------	------

STUDENT TABLE:

ST_ID	ST_NAME	ST_ADDR	GENDER	PHONE_NO
-------	---------	---------	--------	----------



**\*RELATIONAL SCHEMA DIAGRAM :-**



**\*DDL COMMANDS :-**

```
mysql> use hostelsm;
Database changed
```

```
mysql> show tables;
```

```
+-----+
| Tables_in_hostelsm |
+-----+
| bookingrem          |
| books               |
| complaints          |
| display_guardian     |
| display_hostel      |
| display_sphone      |
| display_student     |
| employee            |
| existingroom        |
| guardian            |
| hostel              |
| paybalance          |
| payment             |
| room                |
| std_phone           |
| student             |
+-----+
16 rows in set (0.03 sec)
```

```
mysql> desc bookingrem;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| countr | int  | YES  |     | NULL    |       |
| roomid | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> desc books;
```

```
+-----+-----+-----+-----+-----+-----+
| Field          | Type | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| Hostel_ID      | int  | NO   | PRI | NULL    |                |
| Room_ID        | int  | NO   | PRI | NULL    |                |
| St_ID          | int  | NO   | PRI | NULL    |                |
| Booking_ID     | int  | NO   | PRI | NULL    | auto_increment |
| Booking_Date   | date | YES  |     | NULL    |                |
| Joining_Date   | date | YES  |     | NULL    |                |
| verify         | int  | YES  |     | 0        |                |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> desc display_guardian;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	NO		NULL	
G_ID	int	NO		NULL	
G_Name	varchar(30)	NO		NULL	
G_Role	varchar(30)	YES		Guardian	
G_Addr	varchar(50)	YES		NULL	
G_phone	varchar(10)	NO		NULL	

6 rows in set (0.00 sec)

```
mysql> desc display_hostel;
```

Field	Type	Null	Key	Default	Extra
hostel_id	int	NO		NULL	
room_id	int	NO		NULL	
st_id	int	NO		NULL	

3 rows in set (0.00 sec)

```
mysql> desc display_sphone;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	YES		NULL	
PhoneNo	varchar(11)	NO		NULL	

2 rows in set (0.00 sec)

```
mysql> desc display_student;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	NO		NULL	
Firstn	varchar(30)	NO		NULL	
Lastn	varchar(30)	NO		NULL	
Gender	varchar(30)	YES		NULL	
face	longblob	NO		NULL	
ID_Proof	longblob	NO		NULL	
Aptno	varchar(6)	YES		NULL	
Buidg	varchar(30)	YES		NULL	
Street	varchar(20)	YES		NULL	
City	varchar(30)	YES		NULL	
State	varchar(30)	YES		NULL	
verify	int	YES		0	

12 rows in set (0.00 sec)

# HOSTEL MANAGEMENT SYSTEM

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
Emp_Id	int	NO	PRI	NULL	auto_increment
Emp_Name	varchar(30)	NO		NULL	
Emp_Addr	varchar(50)	NO		NULL	
hire_date	date	NO		NULL	
E_Role	varchar(30)	YES		NULL	
Hostel_ID	int	YES	MUL	NULL	

6 rows in set (0.00 sec)

```
mysql> desc existingroom;
```

Field	Type	Null	Key	Default	Extra
Hostel_ID	int	NO		NULL	
Room_ID	int	NO		NULL	
Beds	int	YES		3	
Room_type	varchar(30)	YES		Normal	
Price	decimal(8,0)	NO		75000	

5 rows in set (0.00 sec)

```
mysql> desc gd_phone;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	YES	MUL	NULL	
G_ID	int	YES		NULL	
PhoneNo	varchar(10)	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> desc guardian;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	NO	PRI	NULL	
G_ID	int	NO	PRI	NULL	
G_Name	varchar(30)	NO		NULL	
G_Role	varchar(30)	YES		Guardian	
G_Addr	varchar(50)	YES		NULL	
G_phone	varchar(10)	NO		NULL	

6 rows in set (0.00 sec)

# HOSTEL MANAGEMENT SYSTEM

```
mysql> desc hostel;
```

Field	Type	Null	Key	Default	Extra
Hostel_ID	int	NO	PRI	NULL	
Hostel_Name	varchar(30)	NO		NULL	
Hostel_Addr	varchar(50)	YES		NULL	
HostelType	varchar(30)	NO		NULL	

4 rows in set (0.00 sec)

```
mysql> desc payment;
```

Field	Type	Null	Key	Default	Extra
Payment_ID	int	NO	PRI	NULL	
Payment_Type	varchar(30)	NO		NULL	
Payment_Date	date	NO		NULL	
Booking_ID	int	YES	MUL	NULL	

4 rows in set (0.00 sec)

```
mysql> desc room;
```

Field	Type	Null	Key	Default	Extra
Hostel_ID	int	NO	PRI	NULL	
Room_ID	int	NO	PRI	NULL	
Beds	int	YES		3	
Room_type	varchar(30)	YES		Normal	
Price	decimal(8,0)	NO		75000	

5 rows in set (0.00 sec)

```
mysql> desc std_phone;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	YES	MUL	NULL	
PhoneNo	varchar(11)	NO		NULL	

2 rows in set (0.00 sec)

## HOSTEL MANAGEMENT SYSTEM

```
mysql> desc student;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	NO	PRI	NULL	
Firstn	varchar(30)	NO		NULL	
Lastn	varchar(30)	NO		NULL	
Gender	varchar(30)	YES		NULL	
face	longblob	NO		NULL	
ID_Proof	longblob	NO		NULL	
Aptno	varchar(6)	YES		NULL	
Buidg	varchar(30)	YES		NULL	
Street	varchar(20)	YES		NULL	
City	varchar(30)	YES		NULL	
State	varchar(30)	YES		NULL	
verify	int	YES		0	

12 rows in set (0.00 sec)

```
mysql> create table Employee(Emp_Id int primary key auto_increment,Emp_Name
varchar(30) not null,Emp_Addr varchar(50) not null,hire_date date not null,
E_Role varchar(30),Hostel_ID int,foreign key(Hostel_ID) references
Hostel(Hostel_ID) ON DELETE CASCADE ON UPDATE CASCADE );
Query OK, 0 rows affected (1.14 sec)
```

```
mysql> alter table employee auto_increment=1001;
Query OK, 0 rows affected (0.74 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
Emp_Id	int	NO	PRI	NULL	auto_increment
Emp_Name	varchar(30)	NO		NULL	
Emp_Addr	varchar(50)	NO		NULL	
hire_date	date	NO		NULL	
E_Role	varchar(30)	YES		NULL	
Hostel_ID	int	YES	MUL	NULL	

6 rows in set (0.00 sec)

```
mysql> alter table student modify face longblob not null;
Query OK, 0 rows affected (1.10 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc student;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	NO	PRI	NULL	
Firstn	varchar(30)	NO		NULL	
Lastn	varchar(30)	NO		NULL	
Gender	varchar(30)	YES		NULL	
face	longblob	NO		NULL	
ID_Proof	longblob	NO		NULL	
Aptno	varchar(6)	YES		NULL	
Buidg	varchar(30)	YES		NULL	
Street	varchar(20)	YES		NULL	
City	varchar(30)	YES		NULL	
State	varchar(30)	YES		NULL	
verify	int	YES		0	

12 rows in set (0.13 sec)

```
mysql> desc display_guardian;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	NO		NULL	
G_ID	int	NO		NULL	
G_Name	varchar(30)	NO		NULL	
G_Role	varchar(30)	YES		Guardian	
G_Addr	varchar(50)	YES		NULL	
G_phone	varchar(10)	NO		NULL	

6 rows in set (0.00 sec)

```
mysql> desc display_student;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	NO		NULL	
Firstn	varchar(30)	NO		NULL	
Lastn	varchar(30)	NO		NULL	
Gender	varchar(30)	YES		NULL	
Face	longblob	NO		NULL	
ID_Proof	longblob	NO		NULL	
Aptno	varchar(6)	YES		NULL	
Buidg	varchar(30)	YES		NULL	
Street	varchar(20)	YES		NULL	
City	varchar(30)	YES		NULL	
State	varchar(30)	YES		NULL	
verify	int	YES		0	

12 rows in set (0.71 sec)

```
mysql> desc display_hostel;
```

Field	Type	Null	Key	Default	Extra
hostel_id	int	NO		NULL	
room_id	int	NO		NULL	
st_id	int	NO		NULL	
booking_id	int	NO		0	

```
4 rows in set (0.00 sec)
```

```
mysql> desc display_sphone;
```

Field	Type	Null	Key	Default	Extra
St_ID	int	YES		NULL	
PhoneNo	varchar(11)	NO		NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> desc paybalance;
```

Field	Type	Null	Key	Default	Extra
balance	decimal(31,2)	YES		NULL	
booking_id	int	YES		NULL	
st_id	int	YES		NULL	

```
3 rows in set (0.00 sec)
```

```
mysql> alter table employee auto_increment=1001;
```

```
mysql> alter table books add end_date date ;
```

```
mysql> alter table student modify face longblob not null;
```

```
mysql> alter table complaints add `status` int default 0;
```

```
mysql> alter table complaints drop verify ;
```

```
mysql> alter table complaints add `c_date` date;
```

```
mysql> desc complaints;
```

Field	Type	Null	Key	Default	Extra
st_id	int	YES	MUL	NULL	
complaint	varchar(100)	YES		NULL	
status	int	YES		0	
c_date	date	YES		NULL	

```
4 rows in set (0.00 sec)
```



**\*DML COMMANDS :-**

```
mysql> insert into Hostel values
(1,"Vishwaraj","Kothrud,Pune","Female"),
(2,"Vidyaniketan","Karve Nagar,Pune","Male"),
(3,"Leelawati Hostel","Warjenaka,Pune","Female"),
(4,"Youthville","Badhvan,Pune","Male");
Query OK, 4 rows affected (0.32 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> select *from hostel;
```

Hostel_ID	Hostel_Name	Hostel_Addr	HostelType
1	Vishwaraj	Kothrud,Pune	Female
2	Vidyaniketan	Karve Nagar,Pune	Male
3	Leelawati Hostel	Warje naka,Pune	Female
4	Youthville	Badhvan,Pune	Male

```
4 rows in set (0.00 sec)
```

```
mysql> insert into room(hostel_ID,Room_ID,Beds) values (1,101,3), (1,102,3);
Query OK, 2 rows affected (0.17 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> insert into room values(1,103,2,"AC",125000.00);
Query OK, 1 row affected (0.19 sec)
```

```
mysql> insert into room(hostel_ID,Room_ID,Beds,Price)values(1,104,2,100000.00);
Query OK, 1 row affected (0.22 sec)
```

```
mysql> insert into room values(1,105,2,"Balcony",125000.00);
Query OK, 1 row affected (0.16 sec)
```

```
mysql> insert into room(hostel_ID,Room_ID,Beds) values (1,201,3), (1,202,3);
Query OK, 2 rows affected (0.18 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> insert into room values(1,203,2,"AC",125000.00);
Query OK, 1 row affected (0.24 sec)
```

```
mysql> insert into room(hostel_ID,Room_ID,Beds,Price)values(1,204,2,100000.00);
Query OK, 1 row affected (0.17 sec)
```

```
mysql> insert into room values(1,205,2,"Balcony",125000.00);
Query OK, 1 row affected (0.15 sec)
```

## HOSTEL MANAGEMENT SYSTEM

```
mysql> insert into room(hostel_ID,Room_ID,Beds) values (1,301,3),(1,302,3);
Query OK, 2 rows affected (0.23 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into room values(1,303,2,"AC",125000.00);
Query OK, 1 row affected (0.19 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price)values(1,304,2,100000.00);
Query OK, 1 row affected (0.24 sec)

mysql> insert into room values(1,305,2,"Balcony",125000.00);
Query OK, 1 row affected (0.18 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price) values
      (2,101,3,70000),(2,102,3,70000);
Query OK, 2 rows affected (0.27 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into room values(2,103,2,"Balcony",120000.00);
Query OK, 1 row affected (0.16 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price)values
      (2,104,2,90000.00),(2,105,2,90000.00);
Query OK, 2 rows affected (0.15 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into room values(2,106,2,"Balcony",120000.00);
Query OK, 1 row affected (0.12 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price) values (2,201,3,70000),
      (2,202,3,70000);
Query OK, 2 rows affected (0.10 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into room values(2,203,2,"Balcony",120000.00);
Query OK, 1 row affected (0.16 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price)values
      (2,204,2,90000.00),(2,205,2,90000.00);
Query OK, 2 rows affected (0.10 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into room values(2,206,2,"Balcony",120000.00);
Query OK, 1 row affected (0.07 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price) values (2,301,3,70000),
      (2,302,3,70000);
Query OK, 2 rows affected (0.10 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into room values(2,303,2,"Balcony",120000.00);
Query OK, 1 row affected (0.15 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price)values
      CET,SCET,MITWPU.
```

## HOSTEL MANAGEMENT SYSTEM

```
                (2,304,2,90000.00),(2,305,2,90000.00);
Query OK, 2 rows affected (0.09 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> insert into room values(2,306,2,"Balcony",120000.00);
Query OK, 1 row affected (0.08 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price) values
                (3,101,2,120000), (3,102,2,120000);
Query OK, 2 rows affected (0.21 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> insert into room values(3,103,2,"Balcony",125000.00);
Query OK, 1 row affected (0.17 sec)

mysql> insert into room(hostel_ID,Room_ID,Price)values
                (3,104,90000.00), (3,105,90000.00);
Query OK, 2 rows affected (0.16 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> insert into room values(3,106,2,"Balcony",125000.00);
Query OK, 1 row affected (0.21 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price) values
                (3,201,2,120000), (3,202,2,120000);
Query OK, 2 rows affected (0.16 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> insert into room values(3,203,2,"Balcony",125000.00);
Query OK, 1 row affected (0.12 sec)

mysql> insert into room(hostel_ID,Room_ID,Price)values
                (3,204,90000.00), (3,205,90000.00);
Query OK, 2 rows affected (0.13 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> insert into room values(3,206,2,"Balcony",125000.00);
Query OK, 1 row affected (0.16 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price) values
                (3,301,2,120000), (3,302,2,120000);
Query OK, 2 rows affected (0.16 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> insert into room values(3,303,2,"Balcony",125000.00);
Query OK, 1 row affected (0.15 sec)

mysql> insert into room(hostel_ID,Room_ID,Price)values
                (3,304,90000.00), (3,305,90000.00);
Query OK, 2 rows affected (0.19 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

## HOSTEL MANAGEMENT SYSTEM

```
mysql> insert into room values(3,306,2,"Balcony",125000.00);
Query OK, 1 row affected (0.18 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds) values (4,101,3), (4,102,3);
Query OK, 2 rows affected (0.18 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into room values(4,103,2,"AC",125000.00);
Query OK, 1 row affected (0.14 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price)values(4,104,2,100000.00);
Query OK, 1 row affected (0.24 sec)

mysql> insert into room values(4,105,2,"Balcony",125000.00);
Query OK, 1 row affected (0.14 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds) values (4,201,3), (4,202,3);
Query OK, 2 rows affected (0.10 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into room values(4,203,2,"AC",125000.00);
Query OK, 1 row affected (0.18 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price)values(4,204,2,100000.00);
Query OK, 1 row affected (0.06 sec)

mysql> insert into room values(4,205,2,"Balcony",125000.00);
Query OK, 1 row affected (0.11 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds) values (4,301,3), (4,302,3);
Query OK, 2 rows affected (0.10 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into room values(4,303,2,"AC",125000.00);
Query OK, 1 row affected (0.07 sec)

mysql> insert into room(hostel_ID,Room_ID,Beds,Price)values(4,304,2,100000.00);
Query OK, 1 row affected (0.06 sec)

mysql> insert into room values(4,305,2,"Balcony",125000.00);
Query OK, 1 row affected (0.18 sec)
```

# HOSTEL MANAGEMENT SYSTEM

```
mysql> select *from room;
```

Hostel_ID	Room_ID	Beds	Room_type	Price
1	101	3	Normal	75000
1	102	3	Normal	75000
1	103	2	AC	125000
1	104	2	Normal	100000
1	105	2	Balcony	125000
1	201	3	Normal	75000
1	202	3	Normal	75000
1	203	2	AC	125000
1	204	2	Normal	100000
1	205	2	Balcony	125000
1	301	3	Normal	75000
1	302	3	Normal	75000
1	303	2	AC	125000
1	304	2	Normal	100000
1	305	2	Balcony	125000
2	101	3	Normal	70000
2	102	3	Normal	70000
2	103	2	Balcony	120000
2	104	2	Normal	90000
2	105	2	Normal	90000
2	106	2	Balcony	120000
2	201	3	Normal	70000
2	202	3	Normal	70000
2	203	2	Balcony	120000
2	204	2	Normal	90000
2	205	2	Normal	90000
2	206	2	Balcony	120000
2	301	3	Normal	70000
2	302	3	Normal	70000
2	303	2	Balcony	120000
2	304	2	Normal	90000
2	305	2	Normal	90000
2	306	2	Balcony	120000
3	101	2	Normal	120000
3	102	2	Normal	120000
3	103	2	Balcony	125000
3	104	3	Normal	90000
3	105	3	Normal	90000
3	106	2	Balcony	125000
3	201	2	Normal	120000
3	202	2	Normal	120000
3	203	2	Balcony	125000
3	204	3	Normal	90000
3	205	3	Normal	90000
3	206	2	Balcony	125000
3	301	2	Normal	120000
3	302	2	Normal	120000
3	303	2	Balcony	125000
3	304	3	Normal	90000

## HOSTEL MANAGEMENT SYSTEM

	3		305		3		Normal		90000	
	3		306		2		Balcony		125000	
	4		101		3		Normal		75000	
	4		102		3		Normal		75000	
	4		103		2		AC		125000	
	4		104		2		Normal		100000	
	4		105		2		Balcony		125000	
	4		201		3		Normal		75000	
	4		202		3		Normal		75000	
	4		203		2		AC		125000	
	4		204		2		Normal		100000	
	4		205		2		Balcony		125000	
	4		301		3		Normal		75000	
	4		302		3		Normal		75000	
	4		303		2		AC		125000	
	4		304		2		Normal		100000	
	4		305		2		Balcony		125000	

+-----+-----+-----+-----+-----+

66 rows in set (0.00 sec)

```
mysql> insert into employee(Emp_Name,Emp_Addr,hire_date,E_Role,Hostel_ID) values
("Ishani Panchal","Kothrud,Pune","2018-08-12","Manager",1),
("Anuj Khanna","Kothrud,Pune","2018-08-12","Manager",2),
("Saumya Parekh","Kothrud,Pune","2018-08-12","Manager",3),
("Pranav Bajaj","Kothrud,Pune","2018-08-12","Manager",4),
("Shaurya Pillay","Bavdhan,Pune","2018-08-12","Chef",1),
("Nikhil Parmar","Kothrud,Pune","2018-08-12","Chef",2),
("Parth Rawat","Bavdhan,Pune","2018-08-12","Chef",3),
("Raghav Sinha","Kothrud,Pune","2018-08-12","Chef",4),
("Sunita Salvi","Bavdhan,Pune","2018-08-12","House Keeper",1),
("Tanvi Rawat","Kothrud,Pune","2018-08-12","House Keeper",2),
("Nilima Sane","Bavdhan,Pune","2018-08-12","House Keeper",3),
("Ananya Pandey","Kothrud,Pune","2018-08-12","House Keeper",4);
Query OK, 12 rows affected (0.25 sec)
Records: 12  Duplicates: 0  Warnings: 0
```

```
mysql> select * from employee;
```

Emp_Id	Emp_Name	Emp_Addr	hire_date	E_Role	Hostel_ID
1001	Ishani Panchal	Kothrud,Pune	2018-08-12	Manager	1
1002	Anuj Khanna	Kothrud,Pune	2018-08-12	Manager	2
1003	Saumya Parekh	Kothrud,Pune	2018-08-12	Manager	3
1004	Pranav Bajaj	Kothrud,Pune	2018-08-12	Manager	4
1005	Shaurya Pillay	Bavdhan,Pune	2018-08-12	Chef	1
1006	Nikhil Parmar	Kothrud,Pune	2018-08-12	Chef	2
1007	Parth Rawat	Bavdhan,Pune	2018-08-12	Chef	3
1008	Raghav Sinha	Kothrud,Pune	2018-08-12	Chef	4
1009	Sunita Salvi	Bavdhan,Pune	2018-08-12	House Keeper	1
1010	Tanvi Rawat	Kothrud,Pune	2018-08-12	House Keeper	2
1011	Nilima Sane	Bavdhan,Pune	2018-08-12	House Keeper	3
1012	Ananya Pandey	Kothrud,Pune	2018-08-12	House Keeper	4

+-----+-----+-----+-----+-----+

12 rows in set (0.00 sec)

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## HOSTEL MANAGEMENT SYSTEM

```
mysql> SELECT * FROM Hostel WHERE Hostel_id= 1;
+-----+-----+-----+-----+
| Hostel_ID | Hostel_Name | Hostel_Addr | HostelType |
+-----+-----+-----+-----+
|          1 | Vishwaraj   | Kothrud,Pune | Female     |
+-----+-----+-----+-----+
1 row in set (0.04 sec)

mysql> INSERT INTO books(Hostel_ID,Room_ID,St_ID,Joining_Date)
VALUES(1,104,1032180381,curdate());
Query OK, 1 row affected (0.24 sec)

mysql> INSERT INTO Std_Phone(St_ID,PhoneNo) VALUES(1032180381,8454907639);
Query OK, 1 row affected (0.12 sec)

mysql> select a.st_id,a.firstn,a.lastn from student a inner join books b using(st_id)
where a.verify = 0 and b.verify = 0 and b.hostel_id = 1;
Empty set (0.00 sec)

mysql> UPDATE Student SET verify = 1 WHERE st_id=1032180381;
Query OK, 0 rows affected (0.03 sec)
Rows matched: 1  Changed: 0  Warnings: 0

mysql> UPDATE Books SET verify = 1 where st_id = 1032180381;
Query OK, 1 row affected (0.08 sec)
Rows matched: 2  Changed: 1  Warnings: 0

mysql> UPDATE books SET booking_date = curdate() where st_id = 1032180381 and
verify = 1;
Query OK, 2 rows affected (0.11 sec)
Rows matched: 2  Changed: 2  Warnings: 0

mysql> UPDATE books SET end_date = DATE_ADD(joining_date, INTERVAL 1 YEAR) where
st_id = 1032180381;
Query OK, 1 row affected (0.46 sec)
Rows matched: 2  Changed: 1  Warnings: 0

mysql> DELETE FROM Student where st_id=1032180317;
Query OK, 1 row affected (0.45 sec)

mysql> select emp_name from employee where emp_id = 1001;
+-----+
| emp_name |
+-----+
| Ishani Panchal |
+-----+
1 row in set (0.06 sec)

mysql> insert into complaints(st_id,complaint,c_date)
values (1032180381,"CHANGE BED SHEETS",curdate());
Query OK, 1 row affected (0.12 sec)
```

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```
mysql> select *from complaints where status = 0;
```

```
+-----+-----+-----+-----+
| st_id   | complaint           | status | c_date   |
+-----+-----+-----+-----+
| 1032180381 | CHANGE BED SHEETS |      0 | 2020-09-20 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> UPDATE complaints SET status = 1 where st_id = 1032180381;
```

```
Query OK, 1 row affected (0.05 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> DELETE FROM complaints where st_id = 1032180381;
```

```
Query OK, 1 row affected (0.16 sec)
```

```
mysql> SET sql_mode=(SELECT REPLACE(@@sql_mode,'ONLY_FULL_GROUP_BY',''));
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select price,beds,room_type from room where hostel_id = 1 group by
room_type,beds;
```

```
+-----+-----+-----+
| price  | beds | room_type |
+-----+-----+-----+
| 85000  | 3    | Normal    |
| 125000 | 2    | AC         |
| 75000  | 2    | Normal    |
| 125000 | 2    | Balcony   |
+-----+-----+-----+
4 rows in set (0.04 sec)
```

```
mysql> UPDATE room SET price = 750000 where room_type = "AC" and beds = 2;
```

```
Query OK, 6 rows affected (0.07 sec)
Rows matched: 6  Changed: 6  Warnings: 0
```

```
mysql> select complaint from complaints where st_id =1032180381 and `status` = 0
```

```
order by c_date desc;
Empty set (0.00 sec)
```

```
mysql> select gender from student where st_id = 1032180381;
```

```
+-----+
| gender |
+-----+
| FEMALE |
+-----+
1 row in set (0.00 sec)
```



**\*DCL COMMANDS :-**

```
mysql> CREATE USER "manager"@"localhost" identified by "Manager@hms0202";
      Query OK, 0 rows affected (0.47 sec)
```

```
mysql> GRANT ALL ON hostelms.* to "manager"@"localhost";
      Query OK, 0 rows affected (0.24 sec)
```

```
mysql> SHOW GRANTS FOR "manager"@"localhost";
+-----+
| Grants for manager@localhost |
+-----+
| GRANT USAGE ON *.* TO `manager`@`localhost` |
| GRANT ALL PRIVILEGES ON `hostelms`.* TO `manager`@`localhost` |
+-----+
2 rows in set (0.00 sec)
```

**\*PL/SQL PROCEDURE AND FUNCTIONS :-****PROCEDURES**

---

**1.CHECK IF STUDENT IS REGISTERED OR NOT**

```
create procedure checkstudent (IN id1 int,IN phno varchar(11), OUT ret int)
begin
    declare stid int;
    declare pno varchar(11);
    declare done int default 0 ;
    declare ver int default 0;

    declare continue handler for not found set done =1;
    select phoneno into pno from std_phone where st_id = id1 and PhoneNo = phno;
    select st_id into stid from student where st_id = id1;
    select verify into ver from student where st_id = id1;

    if ver = 1 then

        set ret = 1;

    elseif ver = 0 and done = 1 then

        set ret = -1;

    elseif ver = 0 then

        set ret = 0;

    end if;
END $$

delimiter ;

DELIMITER //
```

---

---

## 2.PROCEDURE FOR PRICE

```
CREATE PROCEDURE price(IN bed int,IN rtype varchar(30),IN hid int)

BEGIN
    SELECT CAST((avg(Price)) AS DECIMAL(8.4)) Cost FROM room WHERE beds=bed AND
    room_type=rtype AND Hostel_id=hid;
END//
```

---

## 3.CHECK IF EMPLOYEE IS REGISTERED OR NOT

```
Delimiter $$
create procedure checkemployee (IN id1 int,OUT foundemp int)

    begin
    declare empid int;

    declare job varchar(30) default "";

    declare exit handler for not found
    BEGIN
        SET foundemp=-1;
    END;
    select e_role into job from employee where emp_id=id1;
    select emp_id into empid from employee where emp_id=id1;

    if job = "manager" then

        SET foundemp=1;

        else

        set foundemp = 0;

    end if;
end $$
delimiter ;
```

---

## FUNCTIONS

---

### 1.FUNCTION FOR INSERTION OF STUDENTS

```
delimiter $$
```

```
CREATE FUNCTION insert_stu ( id1 int ,fname varchar(30) ,lname varchar(30) ,gen
varchar(30) , fr longblob , id_p longblob,
apt varchar(6), buildg varchar(30), street varchar(20) , city varchar(30) , state
varchar(30) )
returns int deterministic
BEGIN
```

```
    declare exit handler for 1062
```

```
    begin
```

```
    return -1;
```

```
end;
```

```
INSERT INTO Student
```

```
(St_ID,Firstn,Lastn,Gender,Face,ID_Proof,Aptno,Buidg,Street,City,State)
```

```
VALUES(id1, fname,lname, gen,fr,id_p,apt,buildg,street,city,state);
```

```
return 1;
```

```
END $$
```

```
DELIMITER ;
```

---

### 2.FUNCTION FOR CHECKING AVAILABILITY OF ROOM

```
delimiter $$
```

```
CREATE FUNCTION add_room_check(hid int , rid int , bed int , rtype varchar(30) ,
price decimal(8,0))
```

```
RETURNS INT DETERMINISTIC
```

```
BEGIN
```

```
    declare exit handler for 1602
```

```
    begin
```

```
    return -1;
```

```
end;
```

```
insert into room values (hid,rid,bed,rtype,price);
```

```
return 1;
```

```
END $$
```

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delimiter \$\$

---

### 3.FUNCTION FOR COUNTING THE NUMBER OF ROOMS

```
CREATE FUNCTION countroom(hid int,bed int,rtype varchar(30))
RETURNS INT
DETERMINISTIC
BEGIN

    DECLARE count_room INT DEFAULT 0;

    SELECT count(room_id) INTO count_room FROM room WHERE beds=bed AND
    room_type=rtype AND Hostel_ID=hid;

return count_room;
END//
```

---

**\*CURSOR :-****1.CURSOR FOR BOOKING**

```
CREATE PROCEDURE sp_stubooking(IN hid int,IN bed int,IN rtype varchar(30),IN bdate
date,OUT rdone int)
BEGIN
DECLARE done int default 0;

DECLARE countroom INT DEFAULT 0;

DECLARE rid INT;

DECLARE C1 CURSOR FOR SELECT r.room_id,ifnull((SELECT count(room_id) FROM books b
WHERE b.room_id=r.room_id AND r.beds=bed
AND r.room_type=rtype AND r.Hostel_ID=hid
AND DATE_FORMAT(b.joining_date,"%Y")=DATE_FORMAT("2020-09-10","%Y")),0)
Beds FROM room r WHERE r.beds=bed AND r.room_type=rtype AND r.Hostel_ID=hid;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done=1;

OPEN C1;

    LABEL:LOOP

    FETCH C1 INTO rid,countroom;

    IF done=1 THEN

        LEAVE LABEL;

    END IF;

    IF countroom<bed THEN

        INSERT INTO bookingrem VALUES(countroom,rid);

    END IF;

    END LOOP LABEL;
    CLOSE C1;

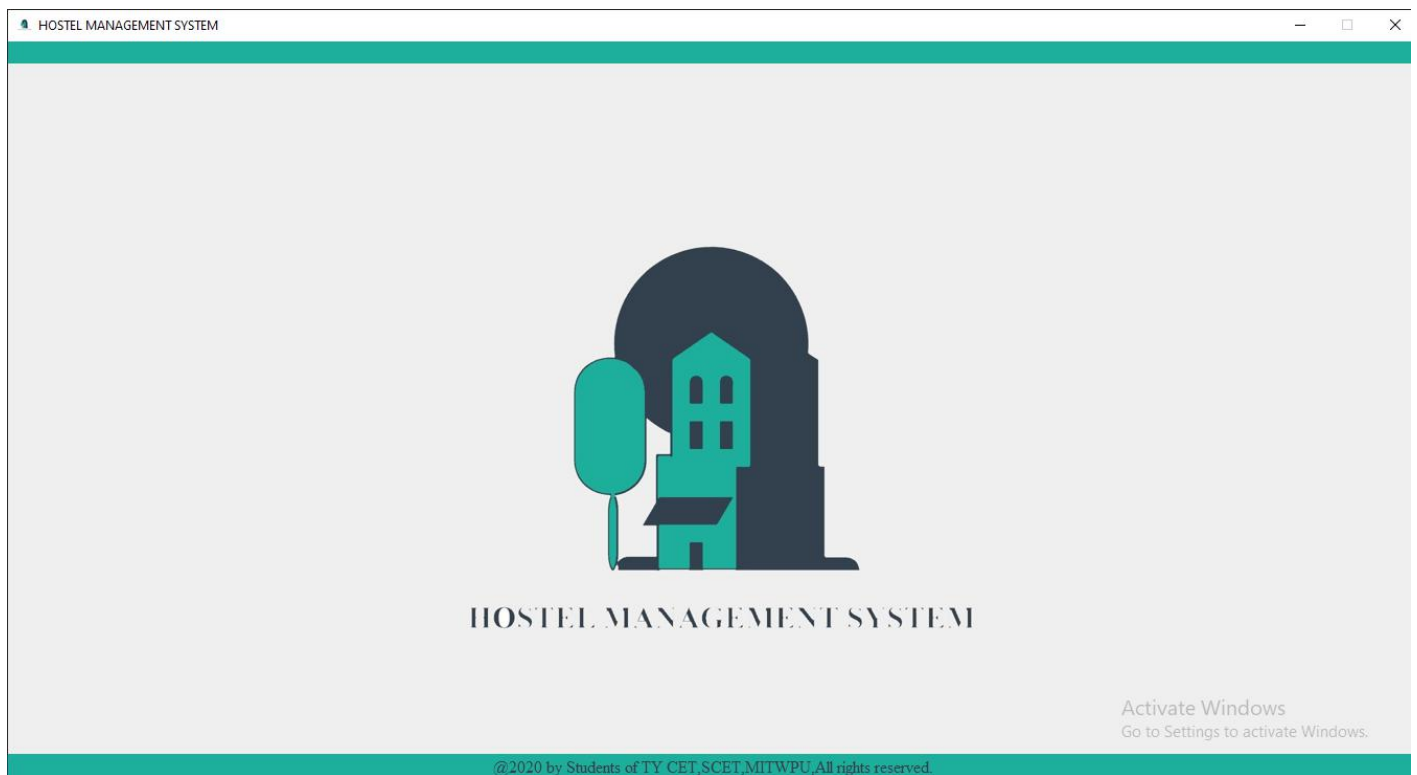
SELECT roomid FROM bookingrem;

TRUNCATE TABLE bookingrem;


END//
```

---

**\*FRONTEND GUI SCREENSHOTS :-**



STUDENT LOGIN PAGE



HOSTEL MANAGEMENT SYSTEM

## LOGIN

STUDENT ID

1

PHONE NUMBER

8

[New User! Register?](#)

SUBMIT

ERROR FOUND

NOT REGISTERED ID , REGISTER FIRST !

OK

Activate Windows  
Go to Settings to activate Windows.

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REGISTRATION

## Student Details

ERP ID \*

First name \*

Last name \*

Gender

Face photo \*

upload

ID Proof \*

upload

SUBMIT

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REGISTRATION

### Student Details

ERP ID \*

First name \*

Last name \*

Gender

Face photo \*

upload

ID Proof \*

upload

SUBMIT

ERROR

Compulsory Values Cannot Be NULL

OK

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REGISTRATION

### Student Details

ERP ID \*

1

First name \*

Shweta

Last name \*

Choudhary

Gender

Female

Face photo \*

upload

C:/Users/shwet/Pictures/passport.JPG

ID Proof \*

upload

C:/Users/shwet/Pictures/ID Card\_170216\_1\_3.jpg

SUBMIT

ERROR

ERP ID should be greater than 1032000000

OK

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REGISTRATION

### Contact Details

AptNo

Building Name

State

City

Street

Phone no

Alternative Phone no

SUBMIT

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REGISTRATION

### Contact Details

AptNo  
A1/306

Building Name  
Trillium

State  
Maharashtra

City  
Mumbai

Street  
Thakur Village

Phone no  
8454907639

Alternative Phone no

SUBMIT

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REGISTRATION

### Contact Details

AptNo  
A1/306

Building Name  
Trillium

State  
Maharashtra

City  
Mumbai

Street  
Thakur Village

Phone no  
8454907639

Alternative Phone no

SUBMIT

REGISTERED  
CONTINUE  
OK

Activate Windows  
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REGISTRATION

### GUARDIAN DETAIL

Enter Name \*

Enter Phone \*

Enter Role

Enter Address

SUBMIT

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REGISTRATION

### GUARDIAN DETAIL

Enter Name \*

Enter Phone \*

Enter Role

Enter Address





**SUBMIT**

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Booking

### Select Hostel


Hostel ID:1	Hostel ID:2	Hostel ID:3	Hostel ID:4
Vishwaraj Hostel	Vidyaniketan Hostel	Leelawati Hostel	Youthville Hostel
Kothrud,Pune	Karve Nagar,Pune	Warje naka,Pune	Badhvan,Pune
Female Hostel	Male Hostel	Female Hostel	Male Hostel

Activate Windows  
Go to Settings to activate Windows.


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Booking


### Select Room




Rs 75000.00  
2 BEDS  
Normal Room  
Total Rooms 3



Rs 85000.00  
3 BEDS  
Normal Room  
Total Rooms 6



Rs 750000.00  
2 BEDS  
AC Room  
Total Rooms 3




Rs 125000.00  
2 BEDS  
Balcony Room  
Total Rooms 3

Activate Windows  
Go to Settings to activate Windows.


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Booking


### Select Room




Rs 75000.00  
2 BEDS  
Normal Room  
Total Rooms 3



Rs 85000.00  
3 BEDS  
Normal Room  
Total Rooms 6



Rs 750000.00  
2 BEDS  
AC Room  
Total Rooms 3



Rs 125000.00  
2 BEDS  
Balcony Room  
Total Rooms 3

Available Room No

204
104
204
304


SUBMIT

Activate Windows  
Go to Settings to activate Windows.


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Booking


### Select Room




Rs 75000.00  
2 BEDS  
Normal Room  
Total Rooms 3



Rs 85000.00  
3 BEDS  
Normal Room  
Total Rooms 6



Rs 750000.00  
2 BEDS  
AC Room  
Total Rooms 3



Rs 125000.00  
2 BEDS  
Balcony Room  
Total Rooms 3

Available Room No

204

9/20/20

September 2020

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
36	31	1	2	3	4	5	6
37	7	8	9	10	11	12	13
38	14	15	16	17	18	19	20
39	21	22	23	24	25	26	27
40	28	29	30	1	2	3	4
41	5	6	7	8	9	10	11


SUBMIT

Activate Windows  
Go to Settings to activate Windows.


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Booking


### Select Room




Rs 75000.00  
2 BEDS  
Normal Room  
Total Rooms 3



Rs 85000.00  
3 BEDS  
Normal Room  
Total Rooms 6



Rs 750000.00  
2 BEDS  
AC Room  
Total Rooms 3



Rs 125000.00  
2 BEDS  
Balcony Room  
Total Rooms 3

Available Room No

204

9/20/20

SUBMIT

Booking

Booking Will be Confirmed Only  
If Security Deposit is paid!!





OK Cancel

Activate Windows  
Go to Settings to activate Windows.

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Booking

### Select Payment Method

 Credit Card
  Net Banking
  Debit Card
  UPI Wallet

Youthville Hostel,Badhvan,Pune

Room No. 204

Room Type 2 Beds Normal Room

Room Cost Rs.75000

Joining Date 2020-09-20





Security Deposit Rs.20000.0\*

Activate Windows  
Go to Settings to activate Windows.

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Booking

### Select Payment Method

 Credit Card
  Net Banking
  Debit Card
  UPI Wallet

Youthville Hostel,Badhvan,Pune

Room No. 204

Room Type 2 Beds Normal Room

Room Cost Rs.75000.0

Joining Date 2020-09-20

Security Deposit Rs.20000.0\*

Installment(Rs)  
20000.0

Payment Date  
9/20/20

Payment Screenshot  
upload





SUBMIT

Activate Windows  
Go to Settings to activate Windows.

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Booking

### Select Payment Method

 Credit Card
  Net Banking
  Debit Card
  UPI Wallet

Youthville Hostel,Badhvan,Pune

Room No. 204

Room Type 2 Beds Normal Room

Room Cost Rs.75000.0

Joining Date 2020-09-20

Security Deposit Rs.20000.0\*

Installment(Rs)

20000.0
20000.0
75000.0
9/20/20

Payment Screenshot

upload





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Booking

### Select Payment Method

 Credit Card
  Net Banking
  Debit Card
  UPI Wallet

Youthville Hostel,Badhvan,Pune

Room No. 204

Room Type 2 Beds Normal Room

Room Cost Rs.75000.0

Joining Date 2020-09-20

Security Deposit Rs.20000.0\*

Installment(Rs)

20000.0

Payment Date

9/20/20

September
2020

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
36	31	1	2	3	4	5	6
37	7	8	9	10	11	12	13
38	14	15	16	17	18	19	20
39	21	22	23	24	25	26	27
40	28	29	30	1	2	3	4
41	5	6	7	8	9	10	11

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Booking

Credit Card

NET BANKING

ATM

UPI Wallet

Youthville Hostel,Badhvan,Pune

Room No. 204

Room Type 2 Beds Normal Room

Room Cost Rs.75

Joining Date 202

Security Deposit

Installment(Rs)

20000.0

Payment Date

9/20/20

Payment Screenshot

upload

C:/Users/shwet/Pictures/ID Card\_170216\_1\_3.jpg

SUBMIT

Registration

Booking Request Sent

OK

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EMPLOYEE LOGIN PAGE

HOSTEL MANAGEMENT SYSTEM

LOGIN

EMPLOYEE ID

PHONE NUMBER

SUBMIT


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## HOSTEL MANAGEMENT SYSTEM

EMPLOYEE LOGIN PAGE



HOSTEL MANAGEMENT SYSTEM

### LOGIN

EMPLOYEE ID

1

PHONE NUMBER

9246782432

SUBMIT

ERROR FOUND


NOT REGISTERED ID , REGISTER FIRST !

OK

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MANAGER LOGIN PAGE



HOSTEL MANAGEMENT SYSTEM

ENTER VALID PASSWORD

|


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## HOSTEL MANAGEMENT SYSTEM

MANAGER LOGIN PAGE



HOSTEL MANAGEMENT SYSTEM

ENTER VALID PASSWORD


\*\*\*\*\*

SUBMIT

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MANAGER LOGIN PAGE



HOSTEL MANAGEMENT SYSTEM

ENTER VALID PASSWORD

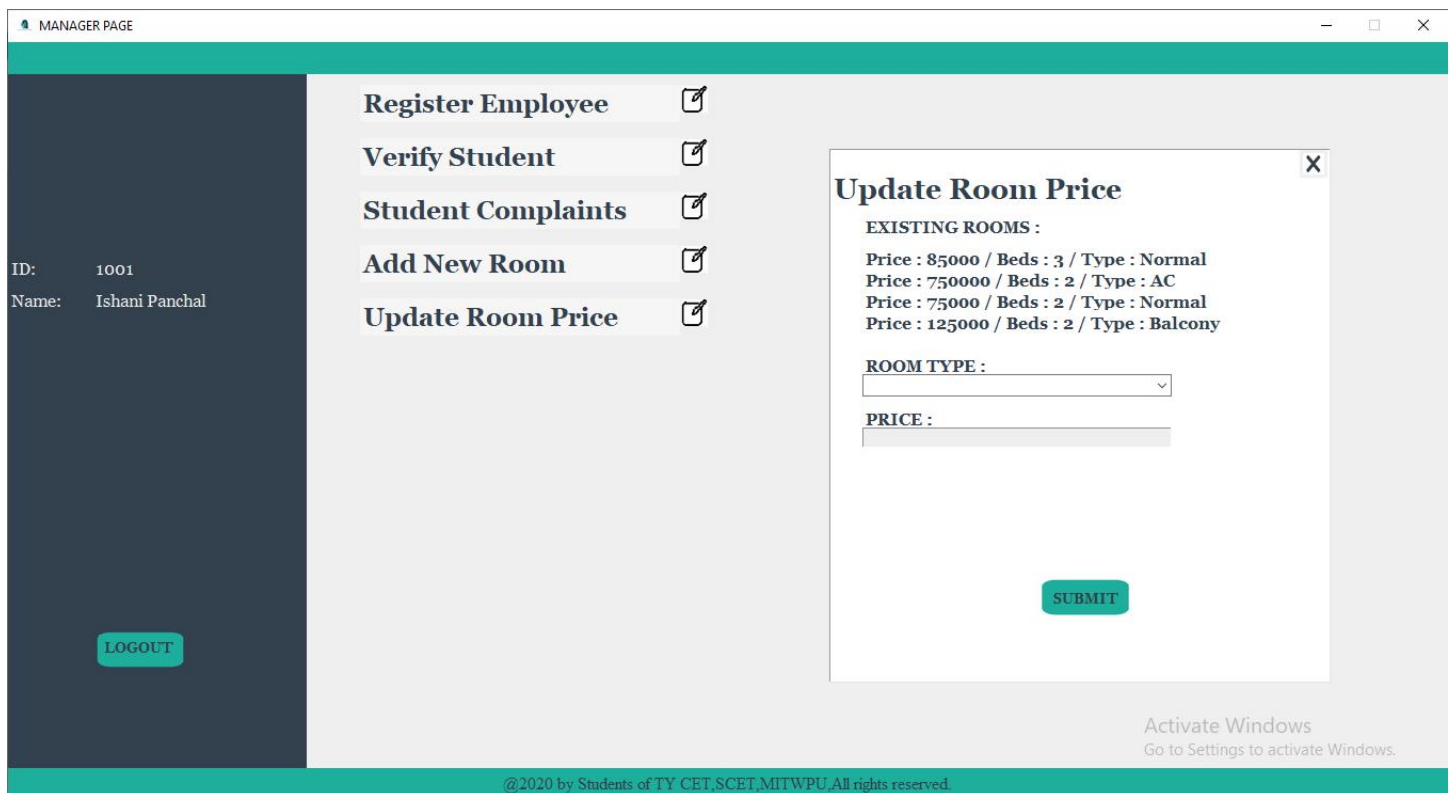
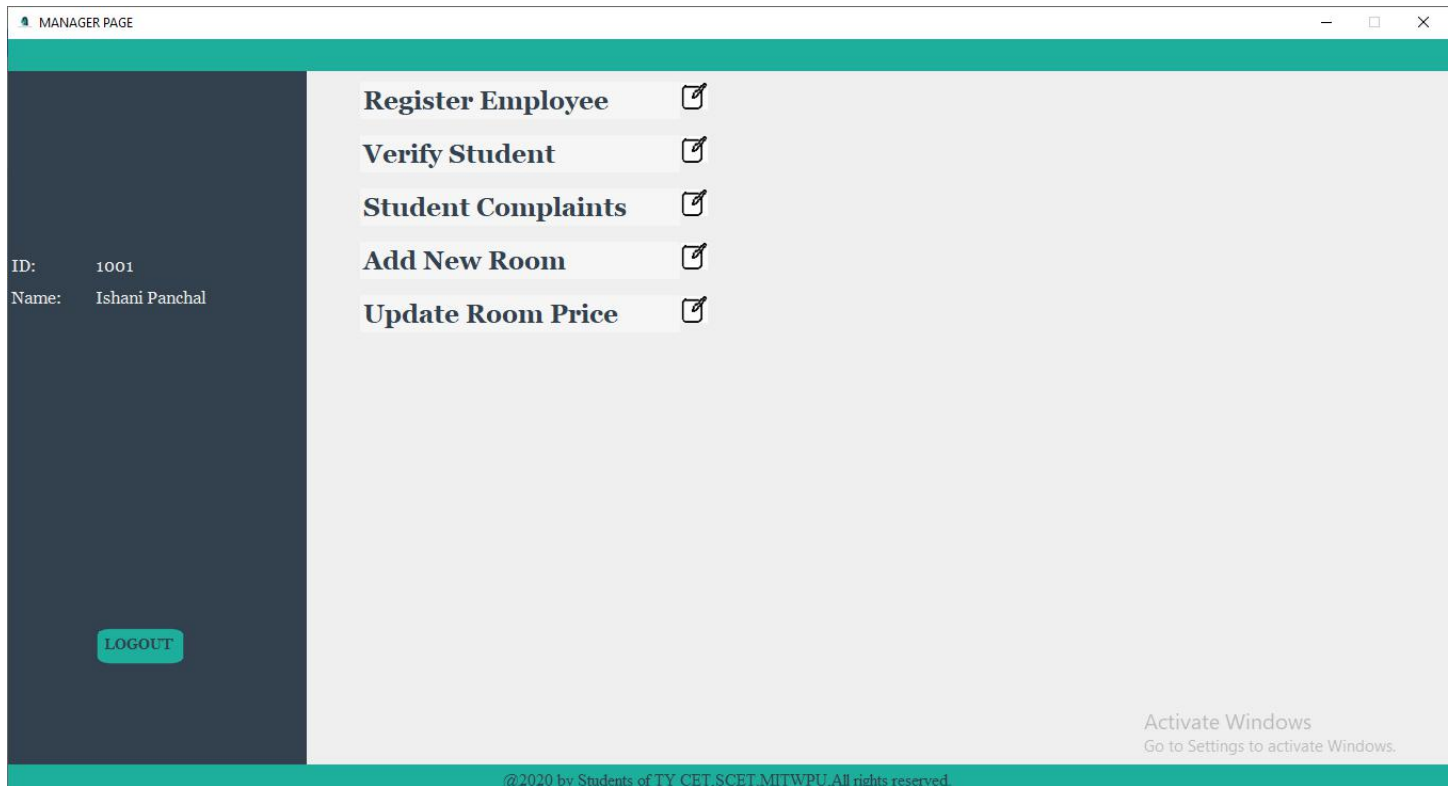
\*\*\*\*\*

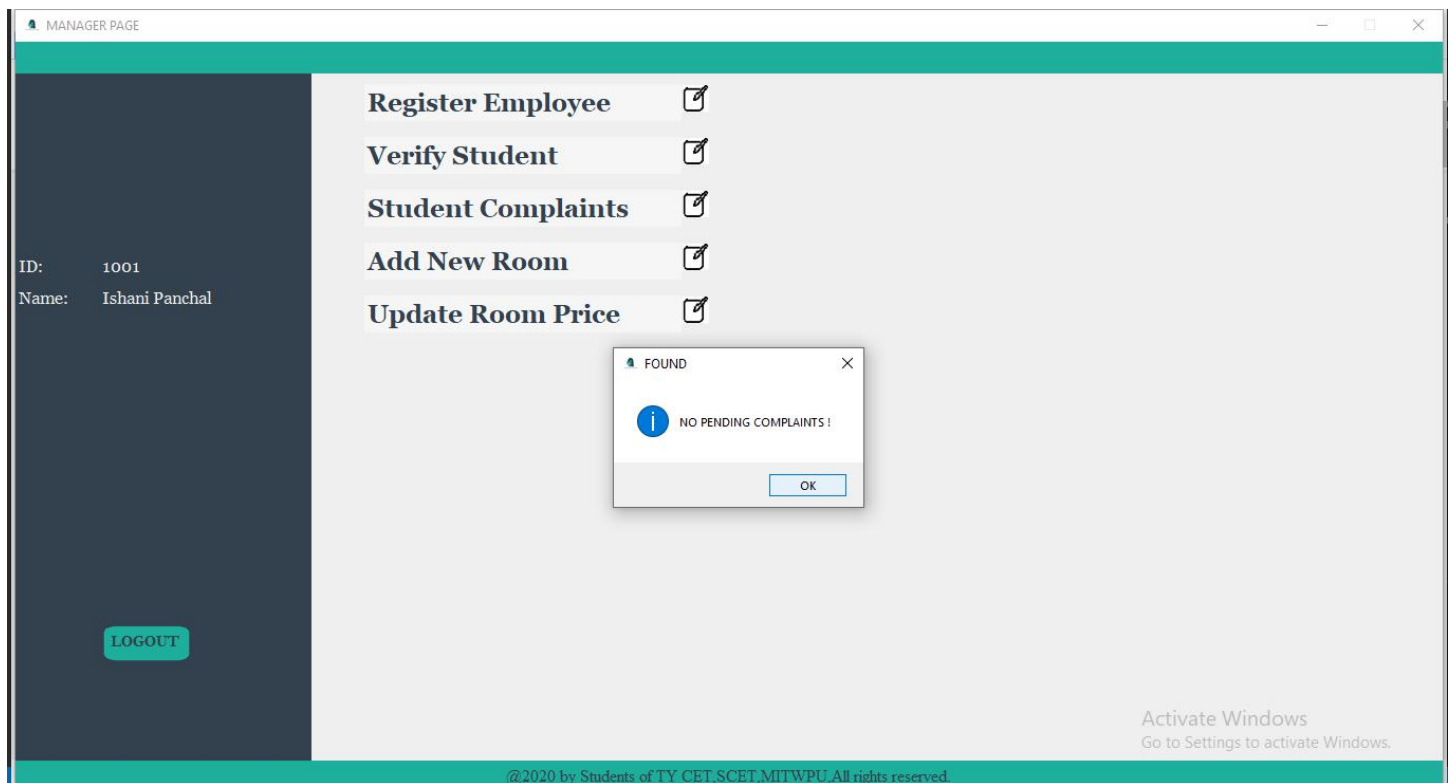
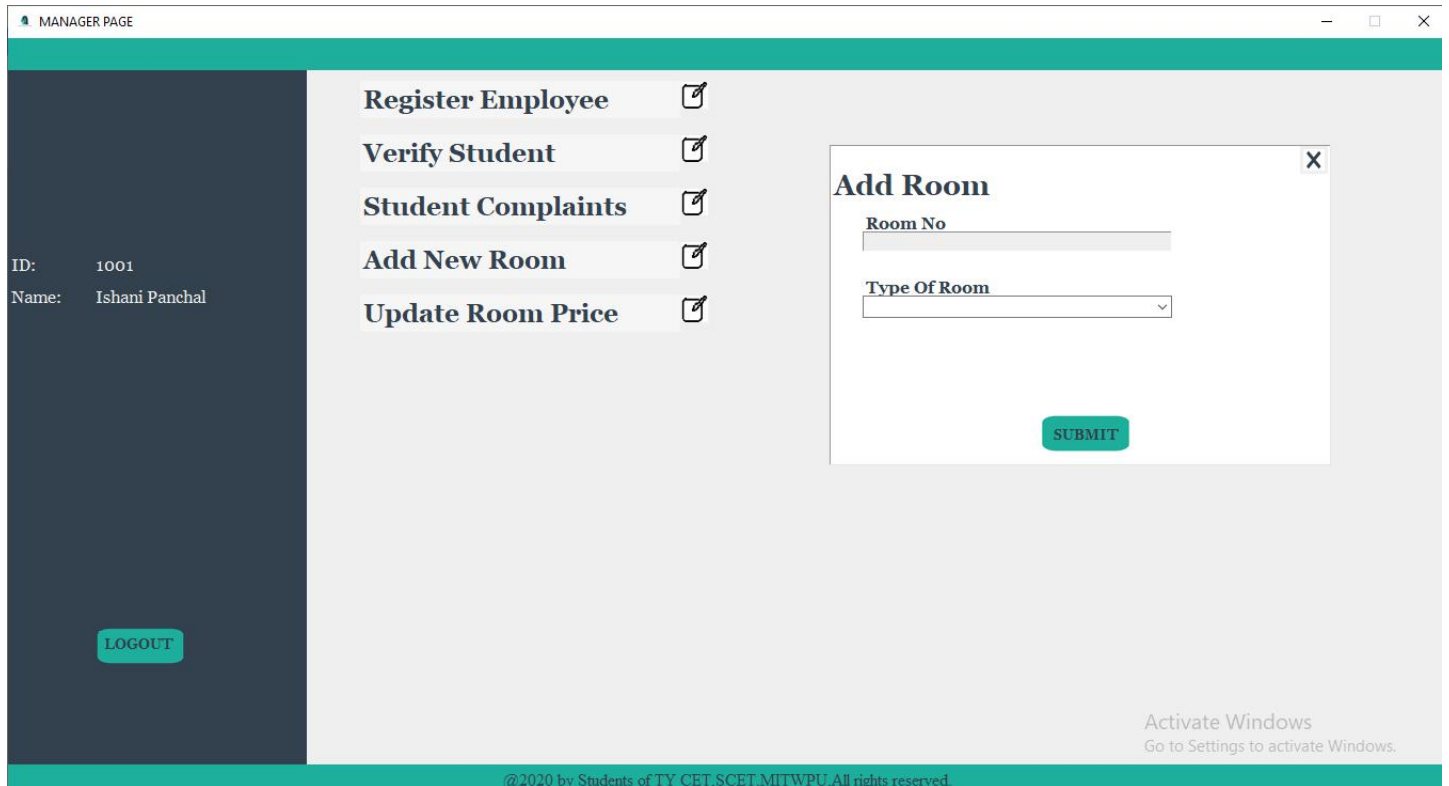
SUBMIT

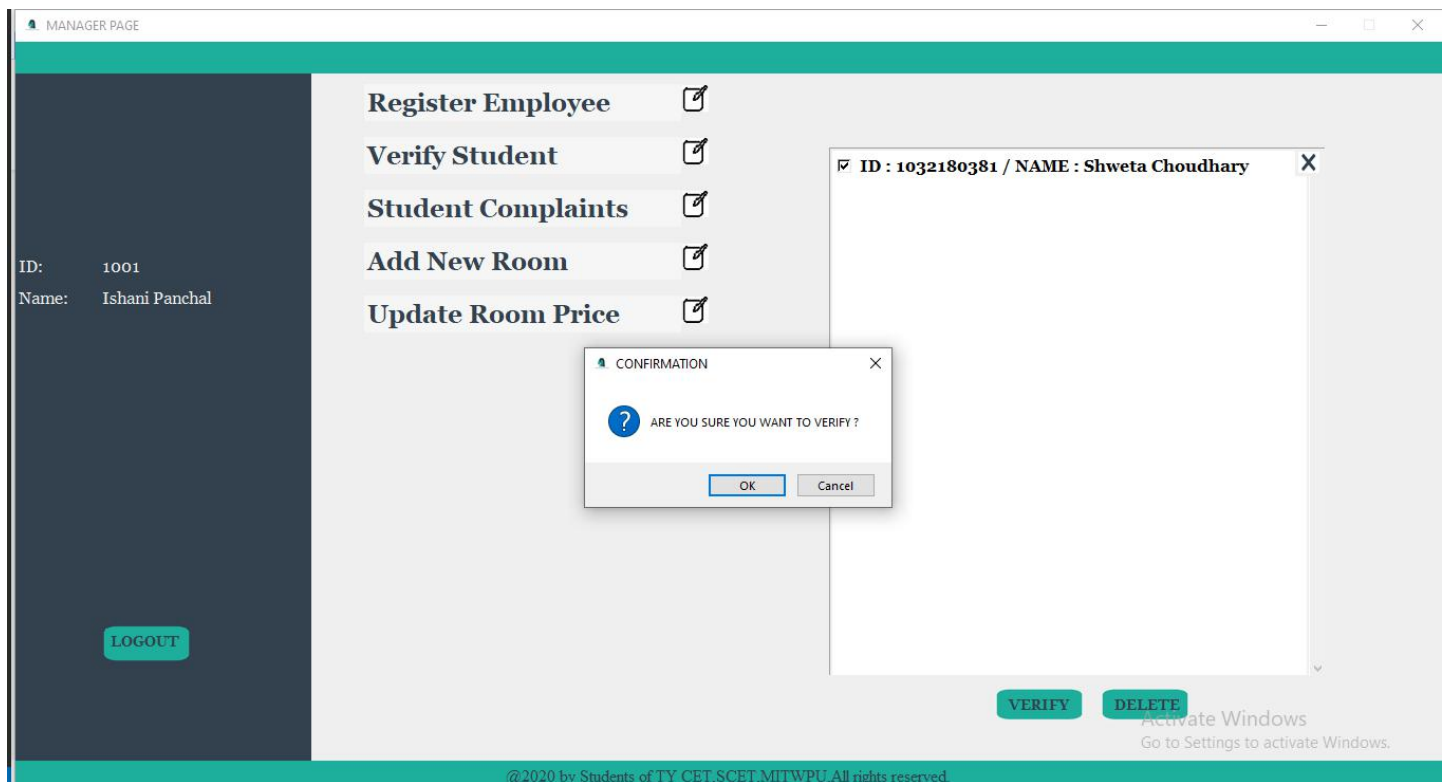
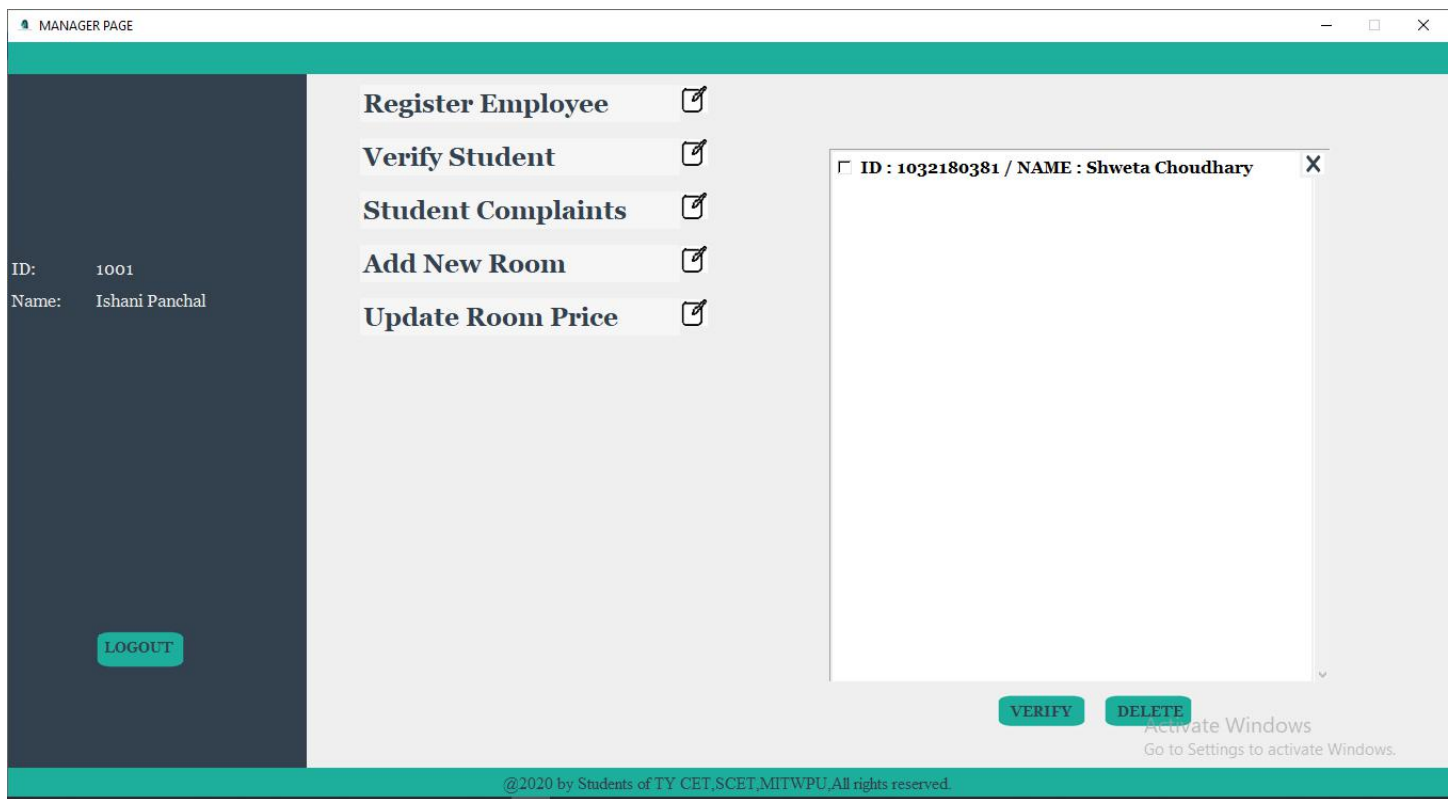
CORRECT  
OK CORRECT , PRESS OK !  
OK

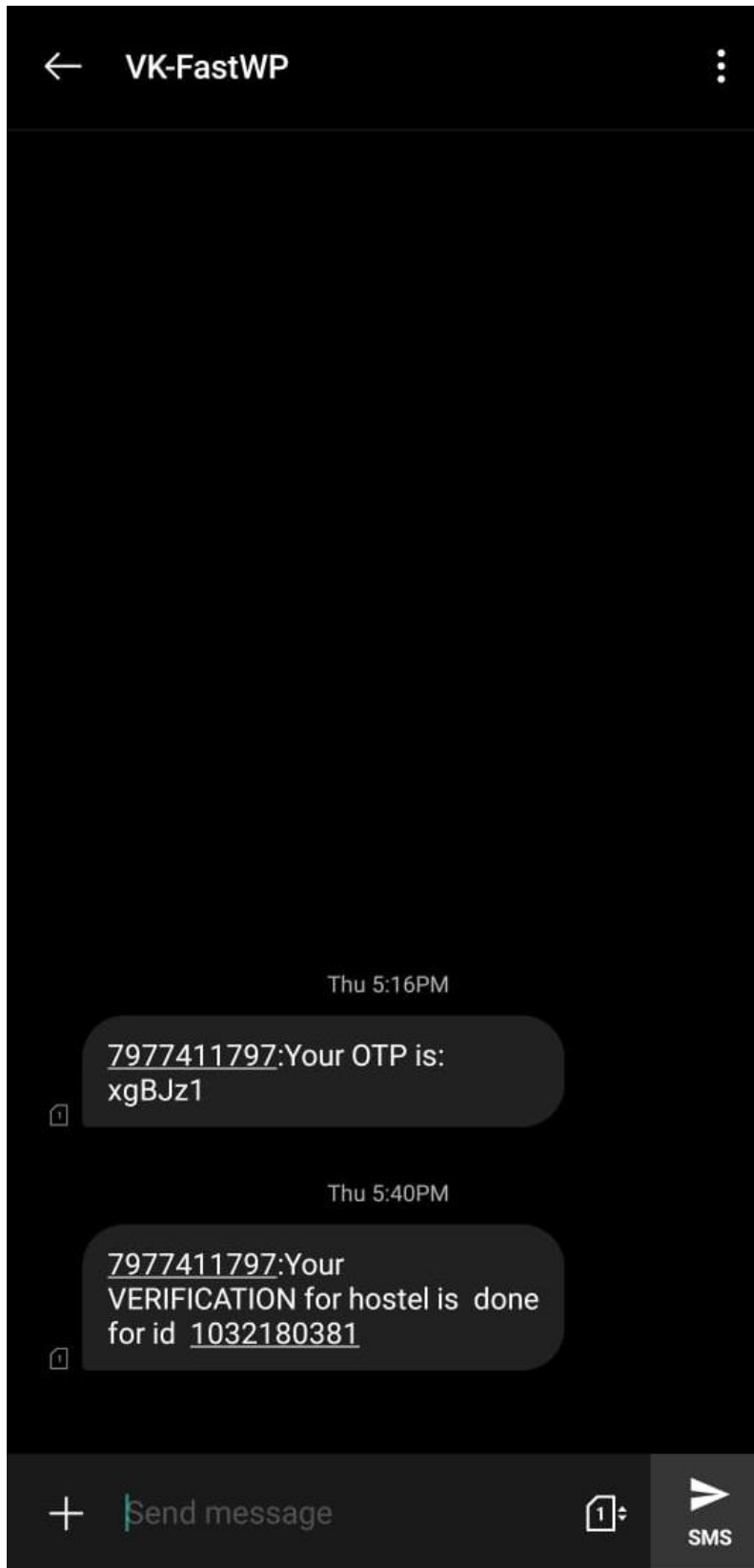
Activate Windows  
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MANAGER PAGE

ID: 1001

Name: Ishani Panchal

LOGOUT

Register Employee

Verify Student

Student Complaints

Add New Room

Update Room Price

### Add Employee

Employee Name

Employee Address

Employee Role


SUBMIT

Activate Windows

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STUDENT LOGIN PAGE



HOSTEL MANAGEMENT SYSTEM

## LOGIN

STUDENT ID

1032180381

PHONE NUMBER

8454907639

[New User!Register?](#)

SUBMIT

### REGISTRATION

OK CORRECT , PRESS OK !

OK


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STUDENT LOGIN PAGE



HOSTEL MANAGEMENT SYSTEM


ENTER VALID OTP

SUBMIT

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STUDENT PAGE



ID : 1032180381  
 Name : Shweta Choudhary  
 Gender : Female  
 Hostel : 1  
 Room : 204

LOGOUT


### Student Details

Phone number : 87432832  
 Student Address : A1/306,  
 Trillium ,  
 Thakur Village,  
 Mumbai,  
 Maharashtra.

### Guardian Details


Guardian Name : Rajesh  
 Guardian Role : FATHER  
 Guardian Address : Thakur Village

### Complaint box



### Payment Details


Balance : Rs 55000.00



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STUDENT PAGE



**ID :** 1032180381  
**Name :** Shweta Choudhary  
**Gender :** Female  
**Hostel :** 1  
**Room :** 204

LOGOUT

### Student Details

**Phone number :** 87432832  
**Student Address :** A1/306,  
 Trillium ,  
 Thakur Village,  
 Mumbai,  
 Maharashtra.

### Guardian Details

**Guardian Name :** Rajesh  
**Guardian Role :** FATHER  
**Guardian Address :** Thakur Village

### Complaint box

### Payment Details

Balance : Rs 55000.00

**Payment Type**  
 Net Banking

**Payment Date**  
 9/20/20


**Payment Screenshot**  
 upload

SUBMIT

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 Go to Settings to activate Windows.

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STUDENT PAGE



**ID :** 1032180381  
**Name :** Shweta Choudhary  
**Gender :** Female  
**Hostel :** 1  
**Room :** 204

LOGOUT

### Student Details

**Phone number :** 87432832  
**Student Address :** A1/306,  
 Trillium ,  
 Thakur Village,  
 Mumbai,  
 Maharashtra.

### Guardian Details

**Guardian Name :** Rajesh  
**Guardian Role :** FATHER  
**Guardian Address :** Thakur Village

### Complaint box

SUBMIT

### Payment Details

Balance : Rs 55000.00

**Payment Type**  
 Net Banking

**Payment Date**  
 9/20/20

**Payment Screenshot**  
 upload

SUBMIT

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### **\*CONCLUSION :-**

To conclude the description about the project entitled “Hostel Management System” : The project, developed using Python Tkinter GUI and MySQL is based on the requirement of increase in number of hostels by an institution. Thereby the number of hostels are also increasing for the accommodation of the students studying in this institution. Hence there is a lot of strain on the manager who are running the hostel. This particular project deals with the problems managers face while managing admissions to hostels, managing complaints and updation of rooms which occur when carried manually. This hostel management software is designed for people who want to manage various activities in the hostel. This project also tackles registration process for the Students.

This project helped us in gaining valuable information and practical knowledge on several topics like designing GUI applications using Python Tkinter and management of database using MySQL. The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life cycle. This knowledge will help us further while developing Web pages using MySQL and for making other database systems.

We can further develop this project to a great extent. Several features can be added for eg, Allowing the student to mark his attendance and also adding his leave and in time extension. Another feature which we wished to implement was providing specialization for employees so that different classes of employee can access the options respective to their Jobs .

“Hostel Management System” was successfully completed.

**\*REFERENCES :-**

- [www.stackoverflow.com](http://www.stackoverflow.com)
- [www.edureka.co](http://www.edureka.co)
- [www.geeksforgeeks.org](http://www.geeksforgeeks.org)
- [www.codemy.com](http://www.codemy.com)