MINI PROJECT REPORT ON
"HOSTEL MANAGEMENT SYSTEM"

submitted by

PRAJAKTA CHAUDHARI :- PA18
SHWETA CHOUDHARY :- PA23
JANHAVI CHAVAN :- PA62
SHIVRAJ PATIL :- PA63

under the guidance of
SHAKTI KINGER MA'AM
at

School of Computer Engineering and Technology

CONTENTS :

ABSTRACT ……..……I

LIST OF FIGURES……..…….II

LIST OF TABLES……..……...III

LIST OF ABBREVATIONS……..IV

1. INTRODUCTION
   -Objective……1(b)
   -Motivation…….1(a)

2. PROBLEM STATEMENT

3. TOOLS AND TECHNOLOGIES USED

4. DATABASE DESIGN
   -ER Diagram……2(a)
   -Schema……2(a)

5. NORMALIZATION
   -Normalizing techniques…..……3(a)
   -Normalized tables……4(a)

6. DATABASE SCHEMA
   -Relational schema diagram…….5(a)

7. DDL

8. DML (ALONG WITH RESULTS OF QUERIES)

9. DCL

9. TRIGGERES

10. PLSQL PROCEDURE/FUNCTION

11. FRONTEND GUI SCREENSHOTS

12. CONCLUSION

13. REFERENCES

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.

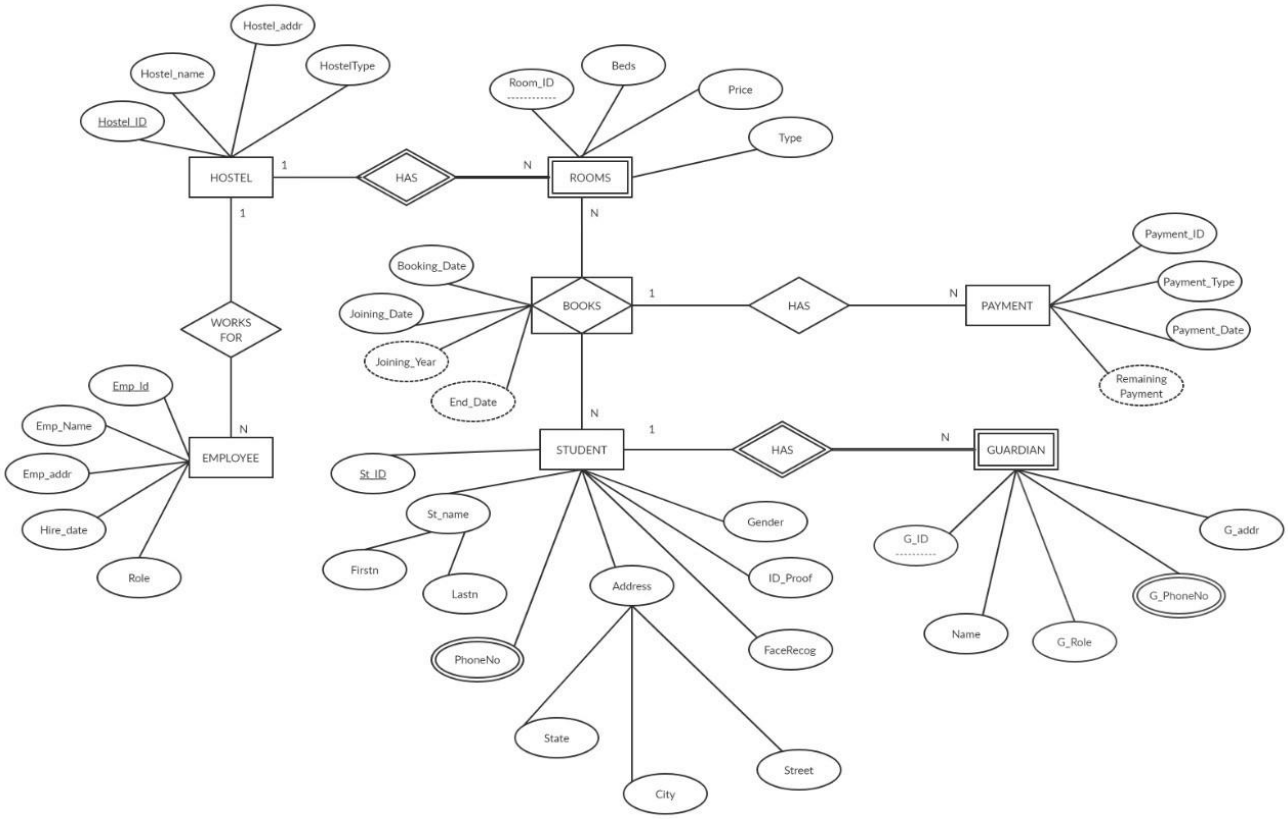
***MOTIVATION :-**

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,facerecog,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	Sarthi	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

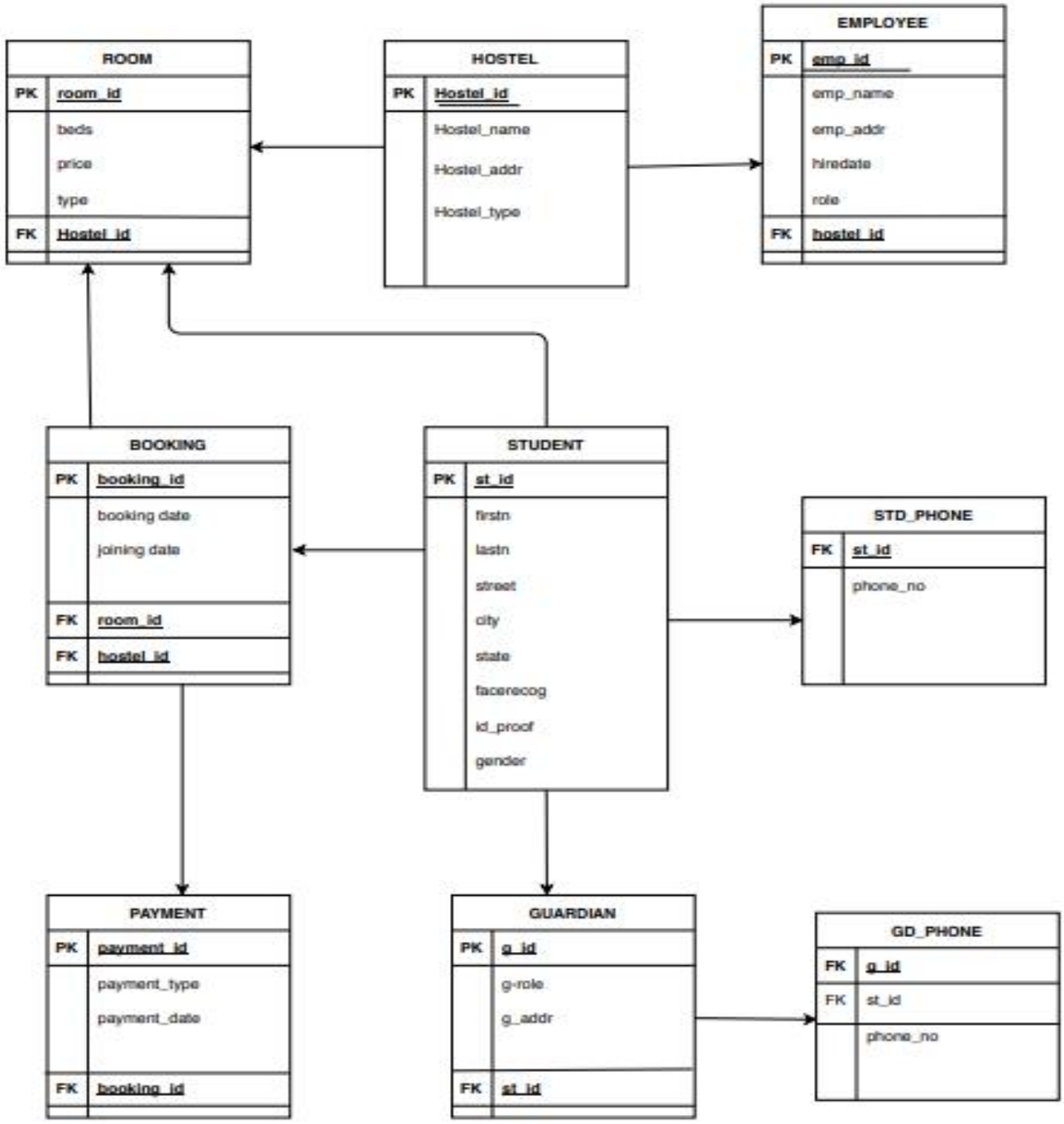
ROOM TABLE :-

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)
```

```
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)
```

```
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)
```

```
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)
```

```
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
```

```
                    (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
```

```
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)
```

```
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 |
```

```
|         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)
```

```
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)
```

```
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 $$
```

```
delimiter $$
```

3.FUNCTION FOR COUNTING THE NUMBER OF ROOMS

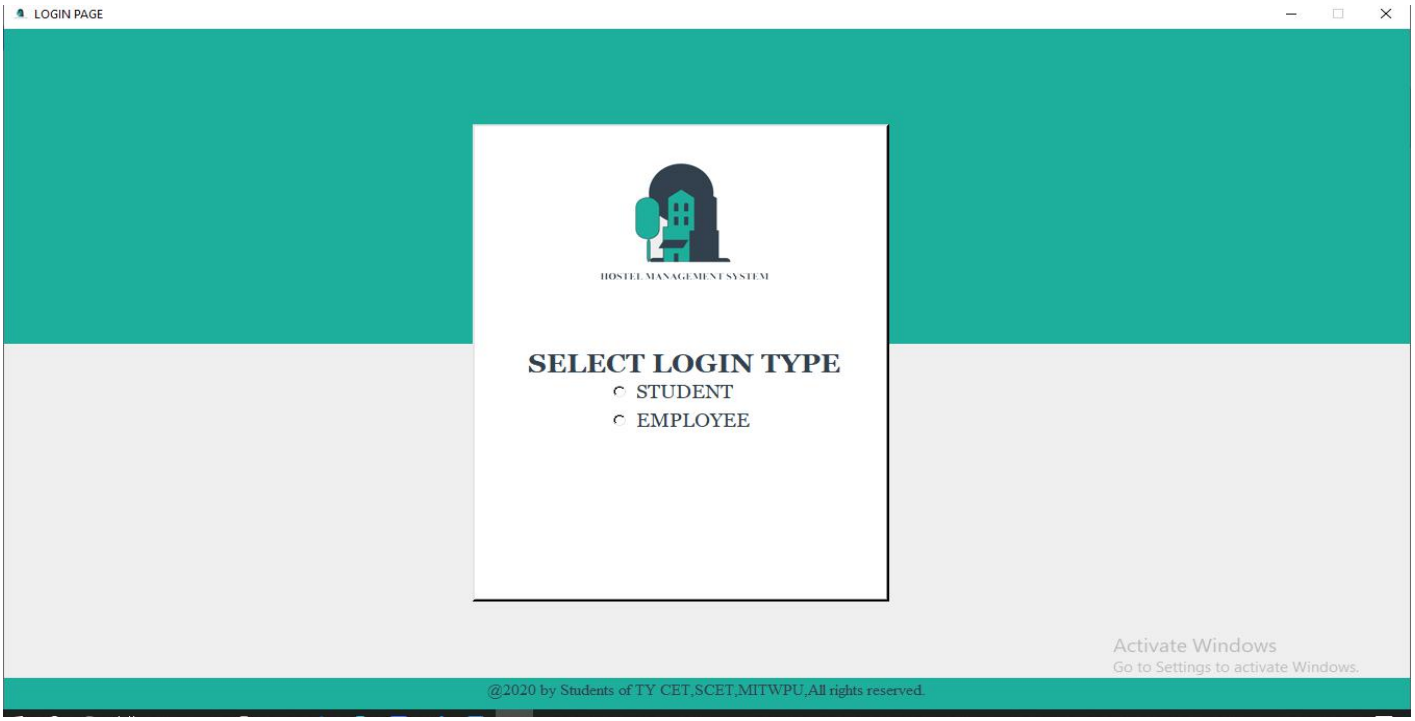
```
CREATE FUNCTION countroom(hid int,bed int,rtype varchar(30))
RETURNS INT
DETERMINISTIC
BEGIN

      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//
```

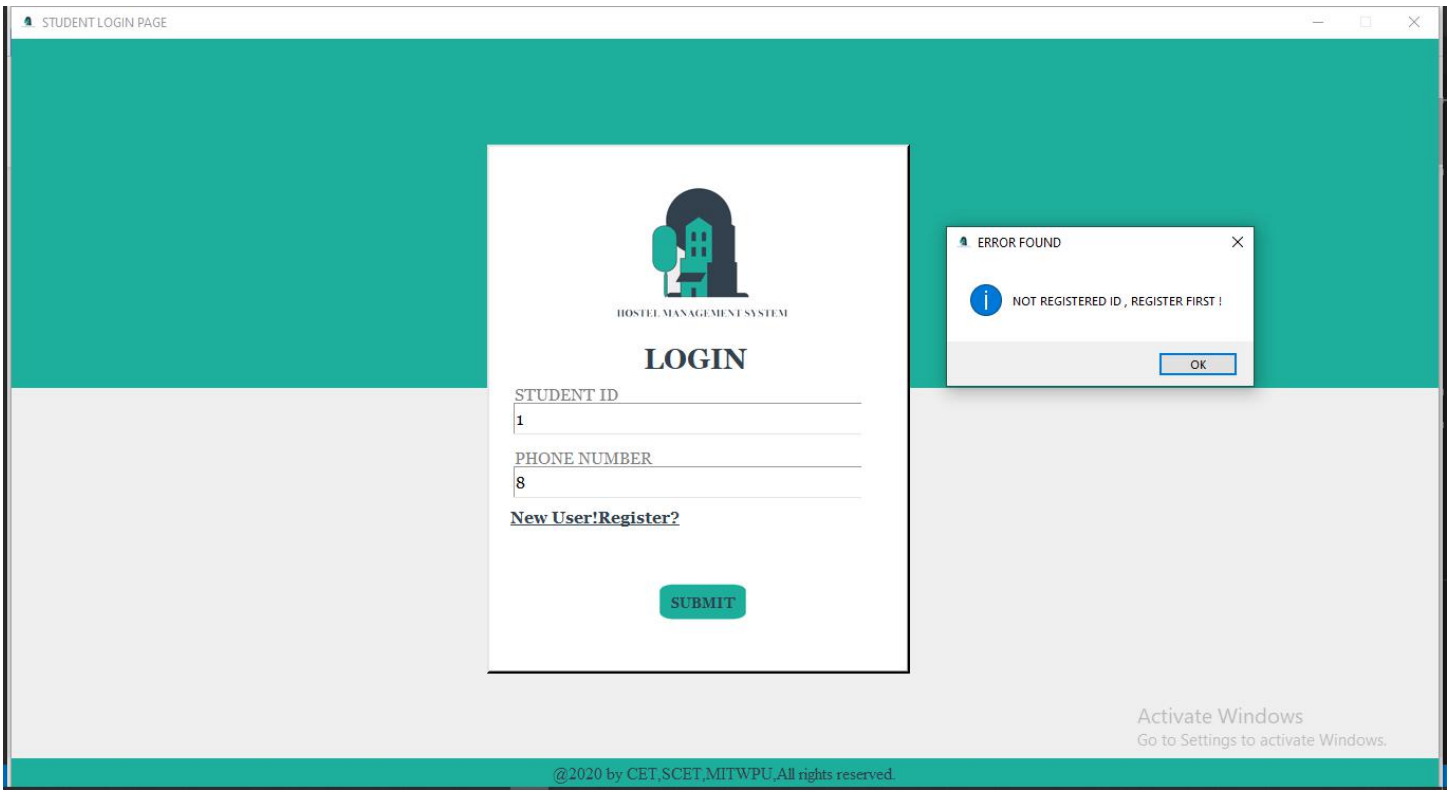
*CURSOR :-

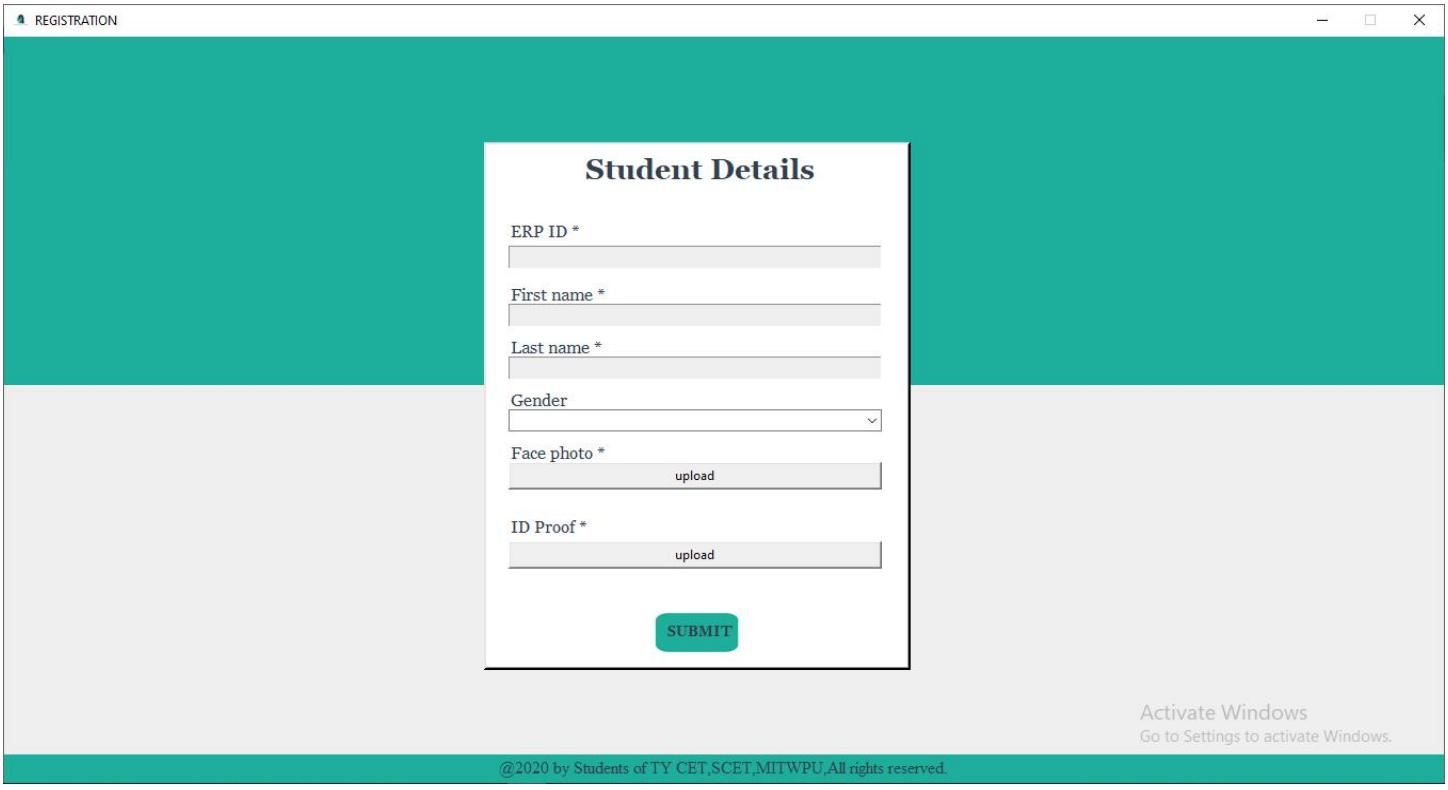
1.CURSOR FOR BOOKING

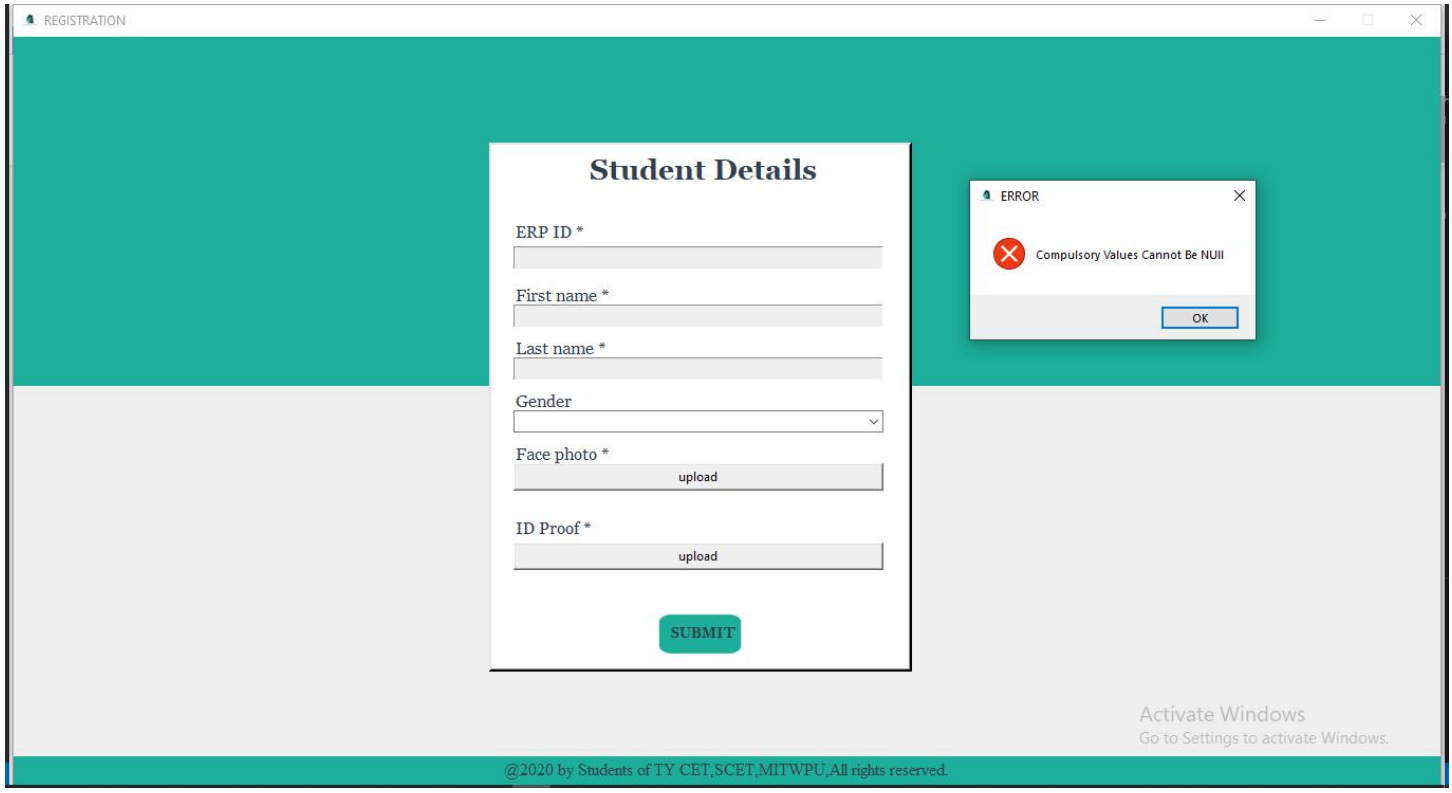
```
CREATE PROCEDURE sp_stubooking(IN hid int,IN bed int,IN rtype varchar(30),IN bdate
date,OUT rdone int)
BEGIN
DECLARE done int default 0;

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//
```

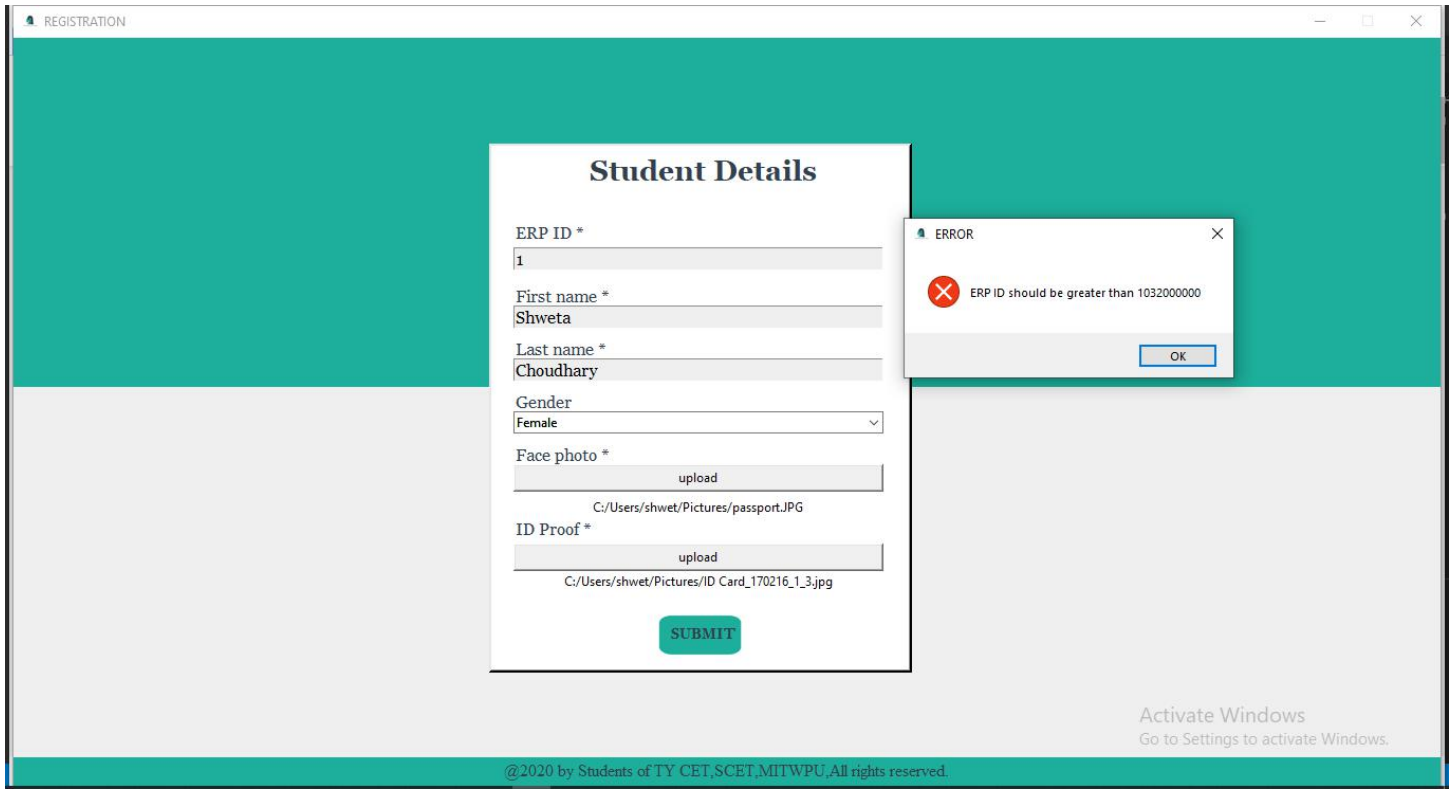
*FRONTEND GUI SCREENSHOTS :-

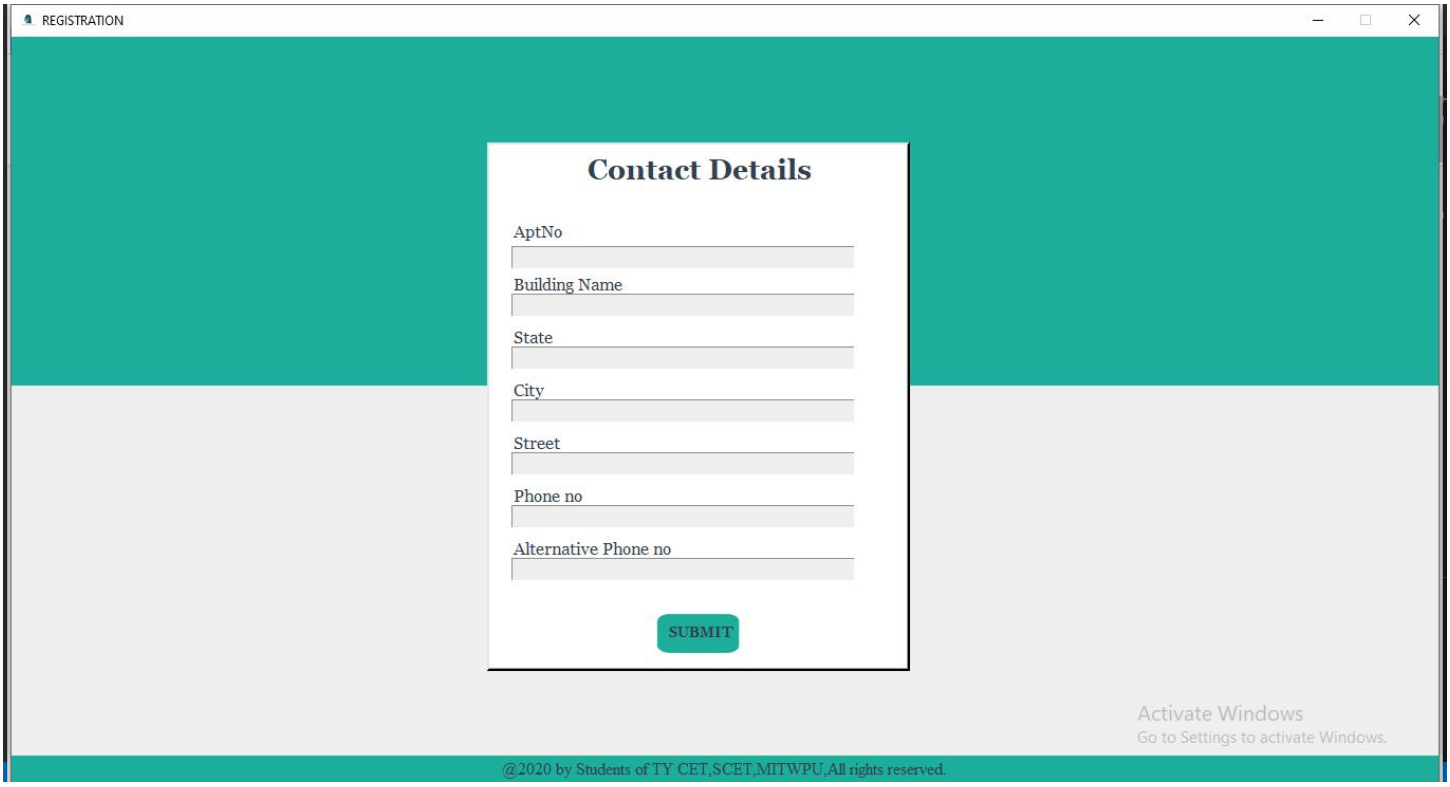


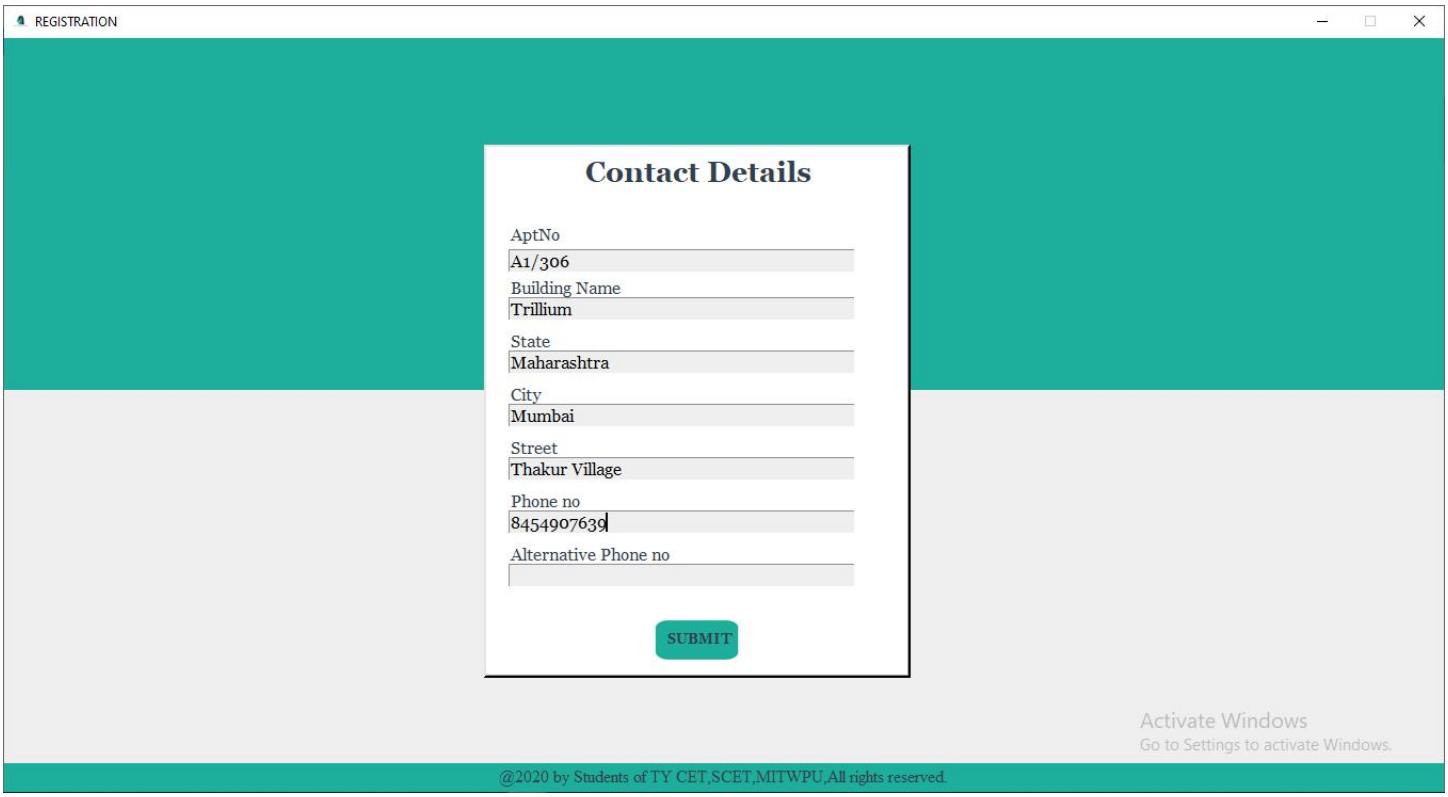

STUDENT LOGIN PAGE
HOSTEL MANAGEMENT SYSTEM
LOGIN
STUDENT ID
1
PHONE NUMBER
8
New User!Register?
SUBMIT
ERROR FOUND
NOT REGISTERED ID , REGISTER FIRST !
OK
Activate Windows
Go to Settings to activate Windows.
@2020 by CET,SCET,MITWPU,All rights reserved.

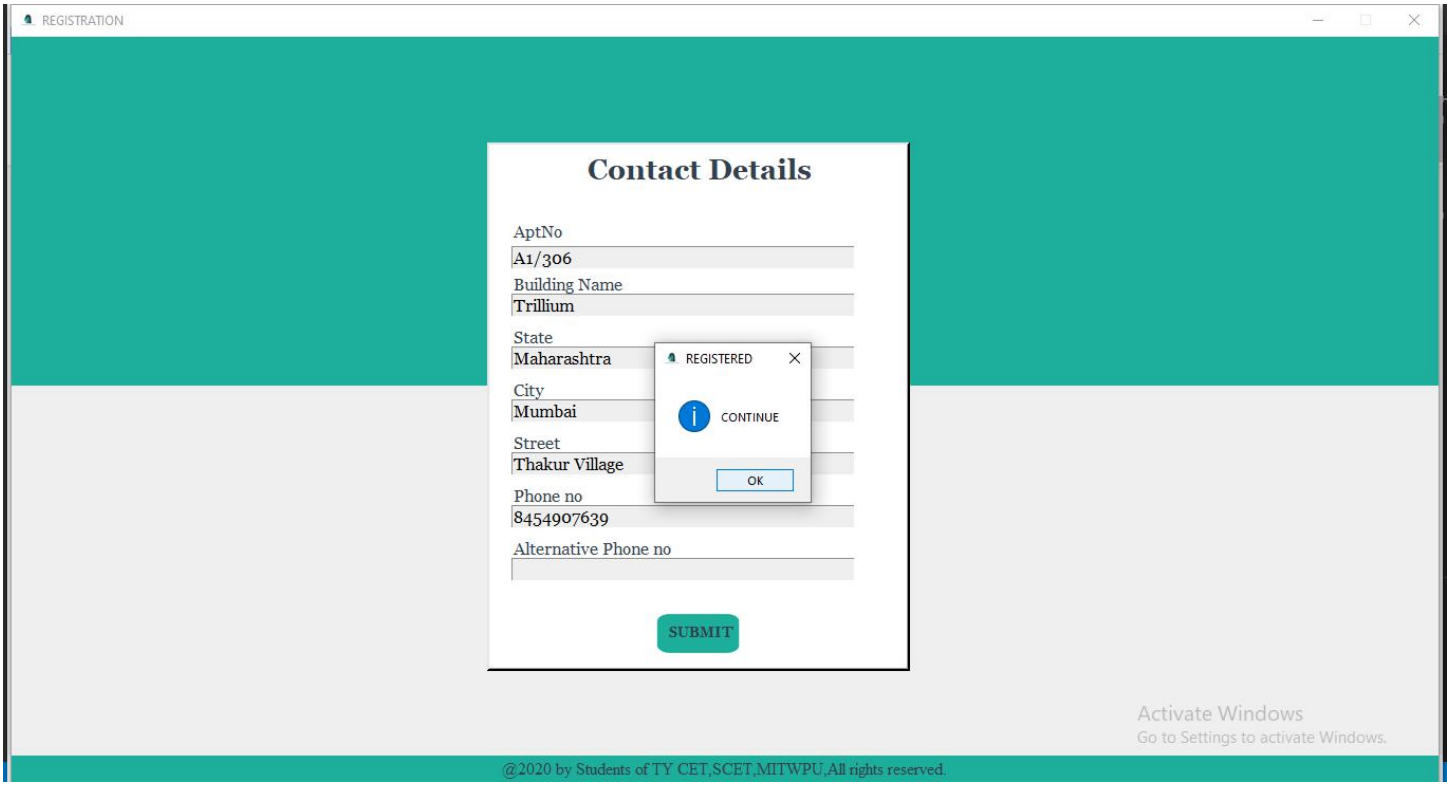

REGISTRATION
Student Details
ERP ID *
First name *
Last name *
Gender
Face photo *
upload
ID Proof *
upload
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

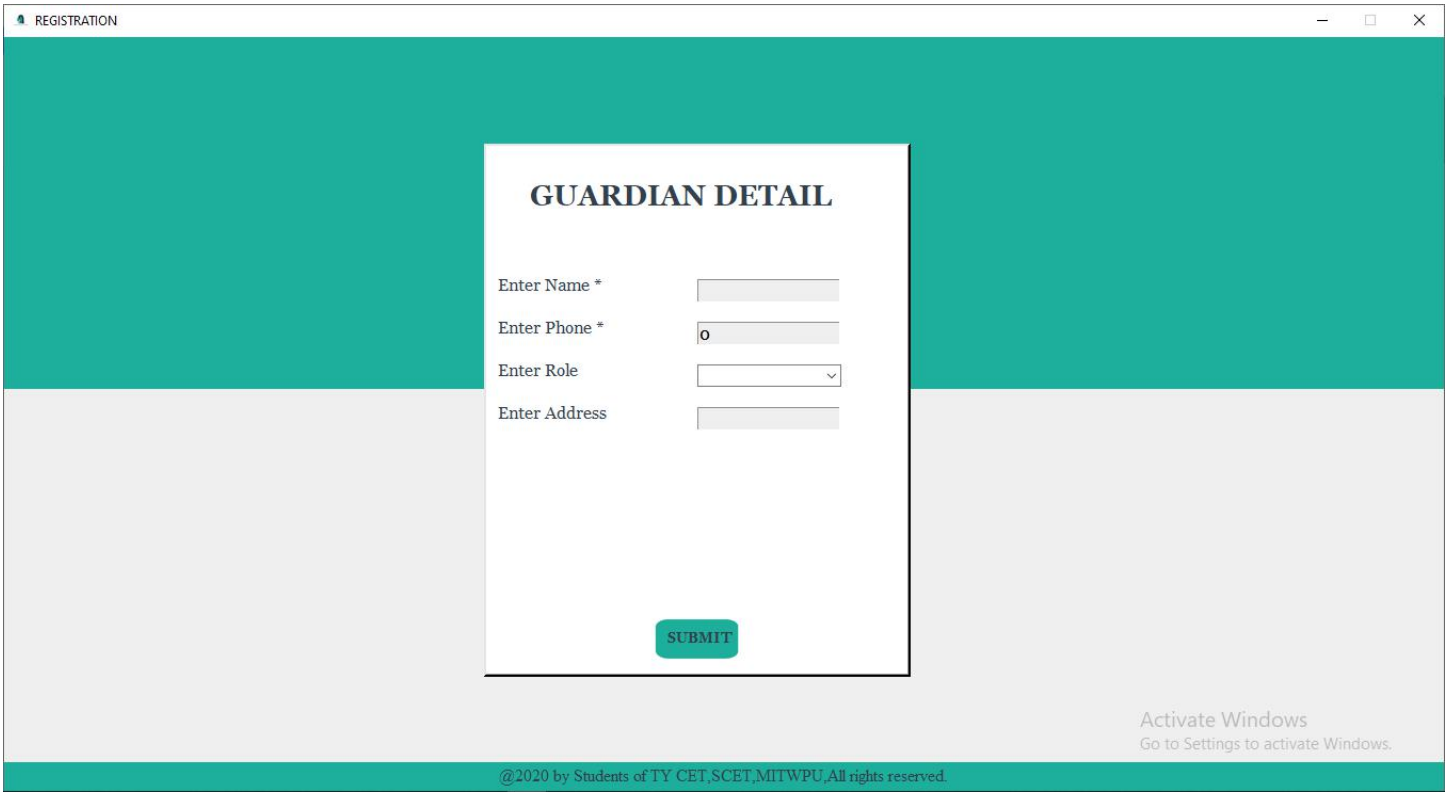

REGISTRATION
Student Details
ERP ID *
First name *
Last name *
Gender
Face photo *
upload
ID Proof *
upload
SUBMIT
ERROR
Compulsory Values Cannot Be NUll
OK
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

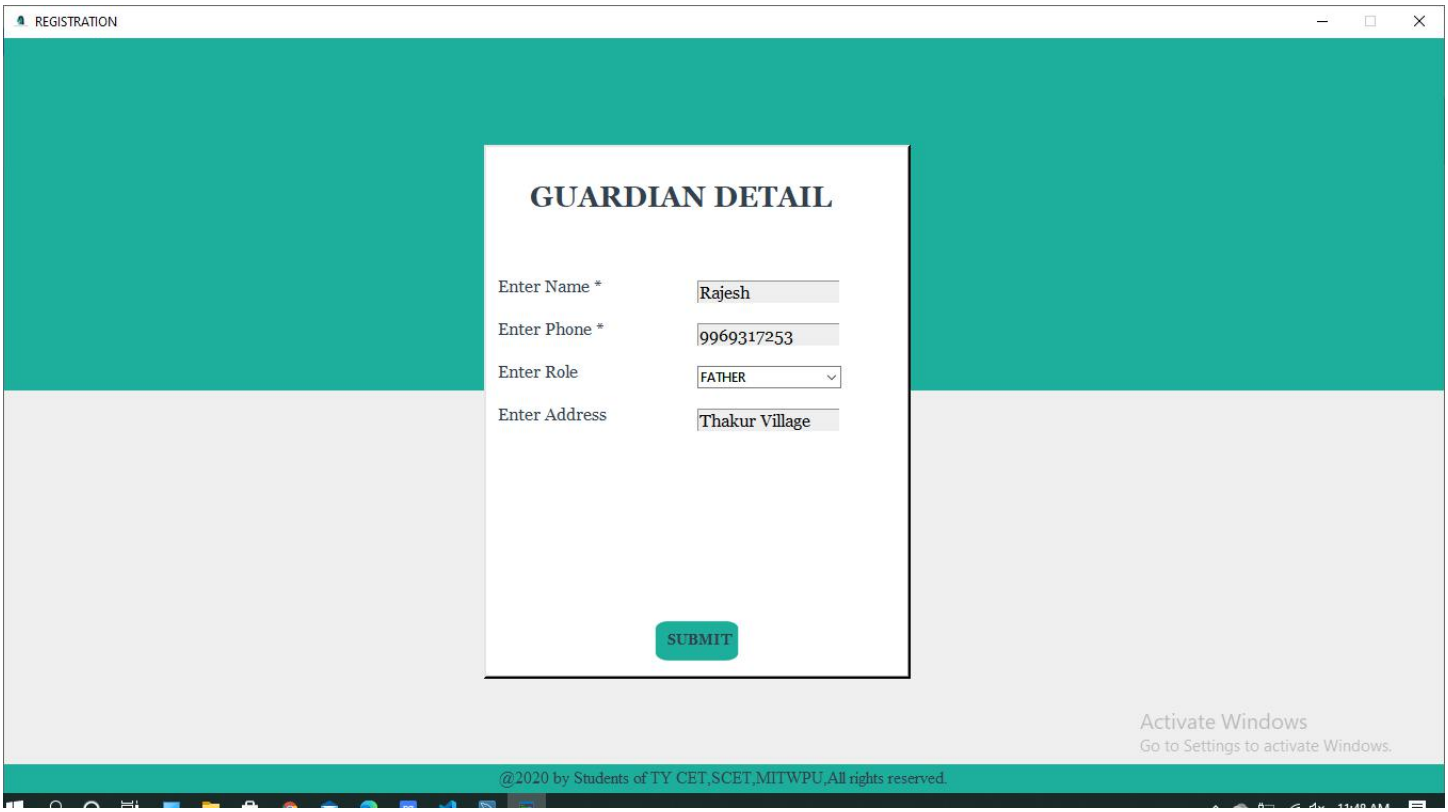

REGISTRATION
Student Details
ERP ID *
1
First name *
Shweta
Last name *
Choudhary
Gender
Female
Face photo *
upload
C:/Users/shwet/Pictures/passport.JPG
ID Proof *
upload
C:/Users/shwet/Pictures/ID Card_170216_1_3.jpg
SUBMIT
ERROR
ERP ID should be greater than 1032000000
OK
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

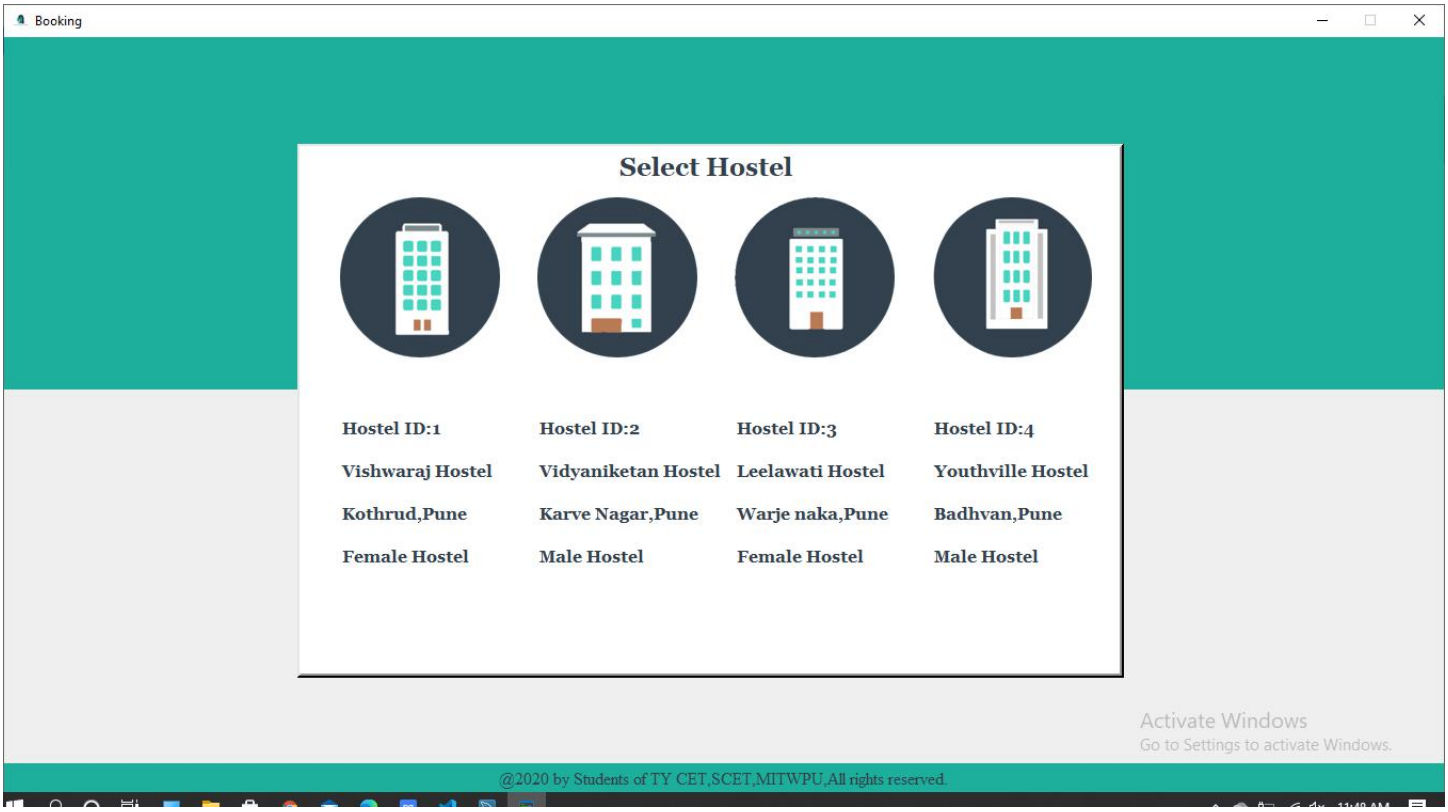

REGISTRATION
Contact Details
AptNo
Building Name
State
City
Street
Phone no
Alternative Phone no
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

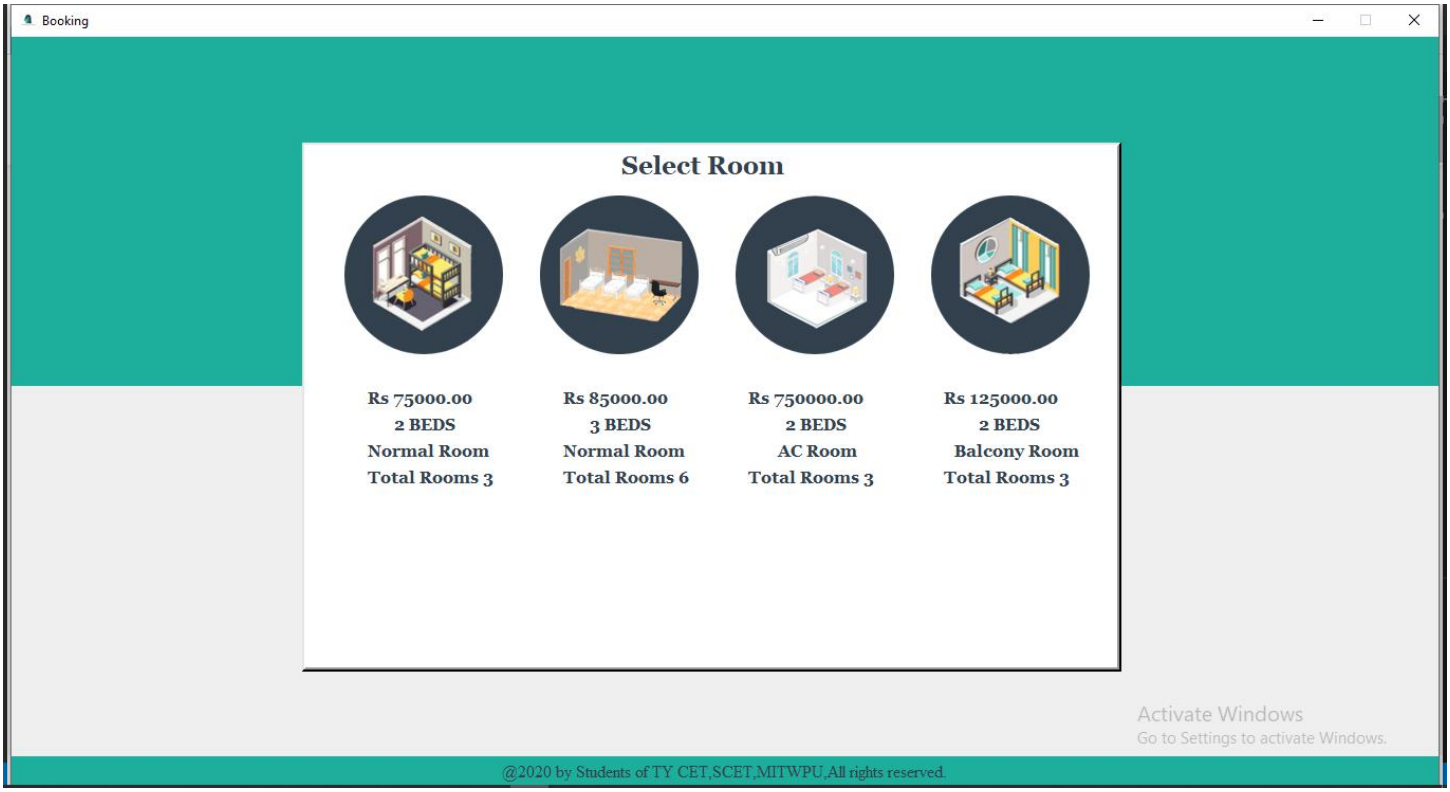

REGISTRATION
Contact Details
AptNo
A1/306
Building Name
Trillium
State
Maharashtra
City
Mumbai
Street
Thakur Village
Phone no
8454907639
Alternative Phone no
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

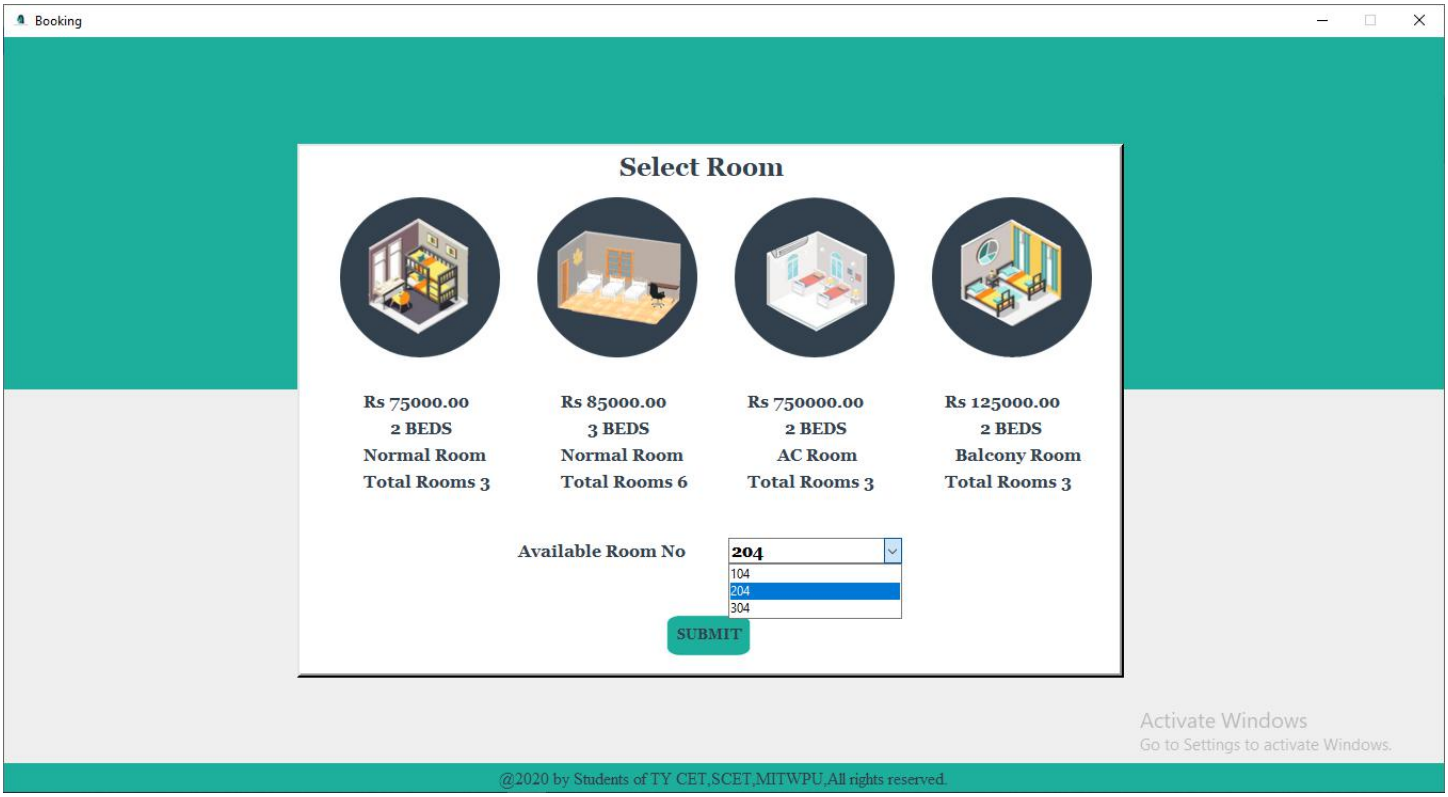

REGISTRATION
Contact Details
AptNo
A1/306
Building Name
Trillium
State
Maharashtra
City
Mumbai
Street
Thakur Village
Phone no
8454907639
Alternative Phone no
SUBMIT
REGISTERED
CONTINUE
OK
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

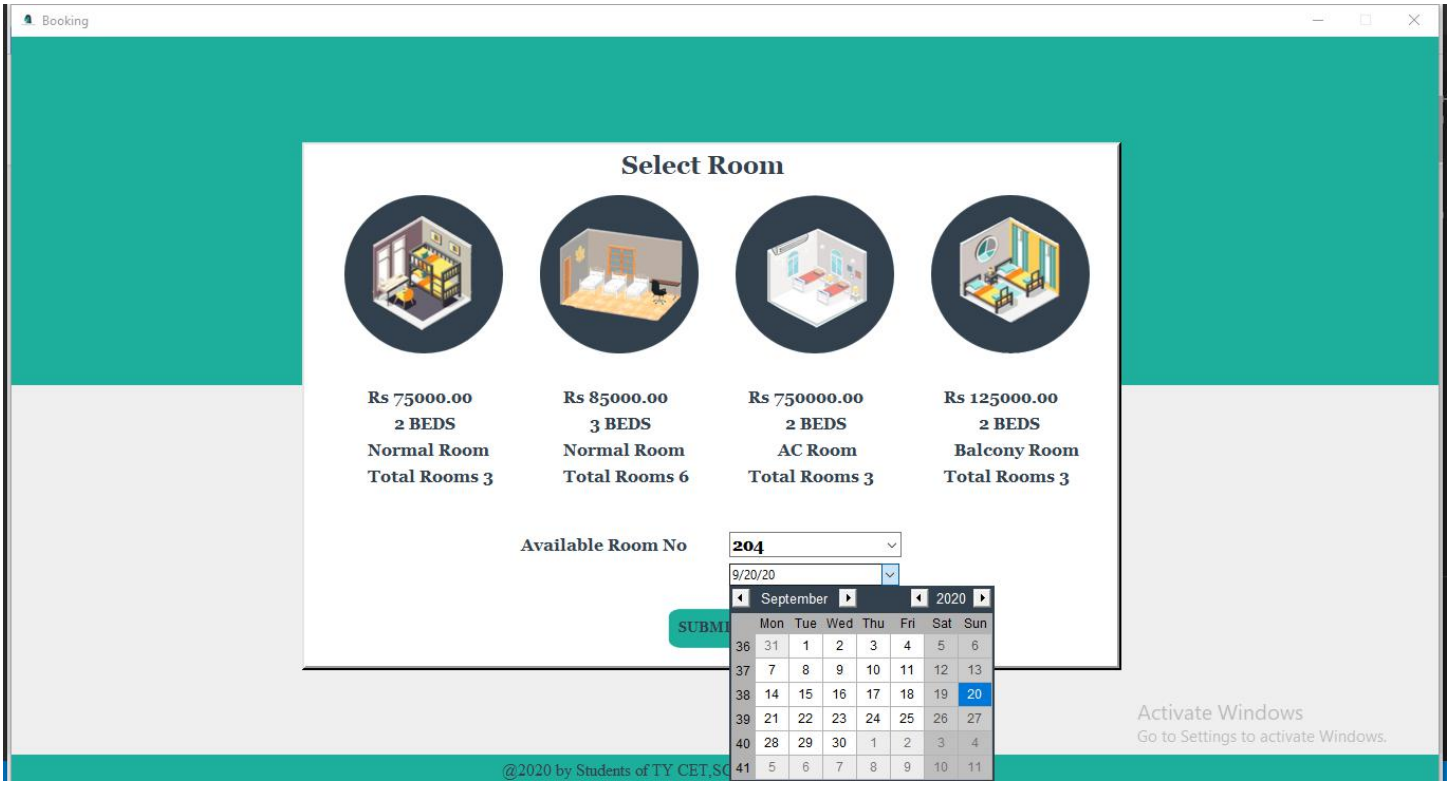

REGISTRATION
GUARDIAN DETAIL
Enter Name *
Enter Phone *
0
Enter Role
Enter Address
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

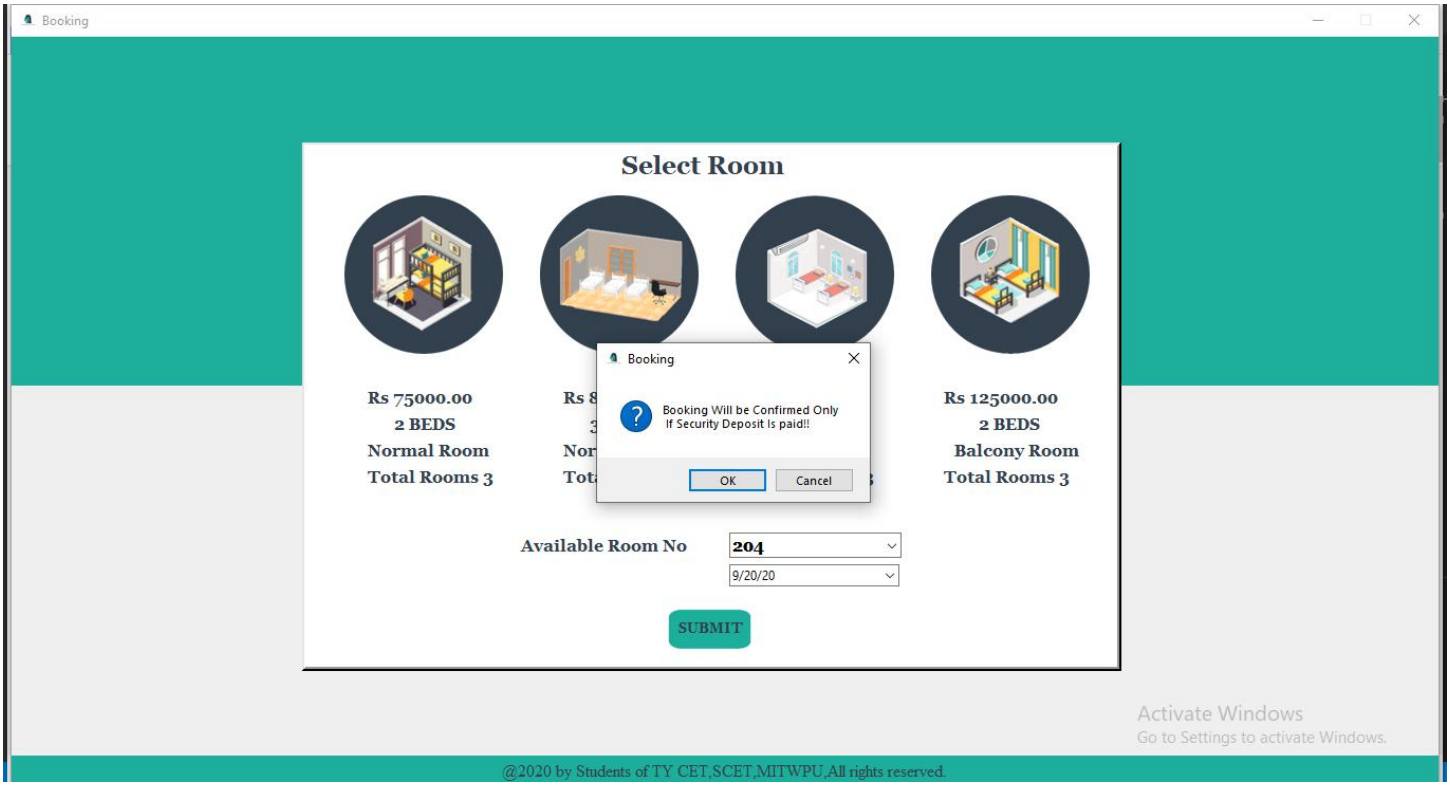

REGISTRATION
GUARDIAN DETAIL
Enter Name *
Rajesh
Enter Phone *
9969317253
Enter Role
FATHER
Enter Address
Thakur Village
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

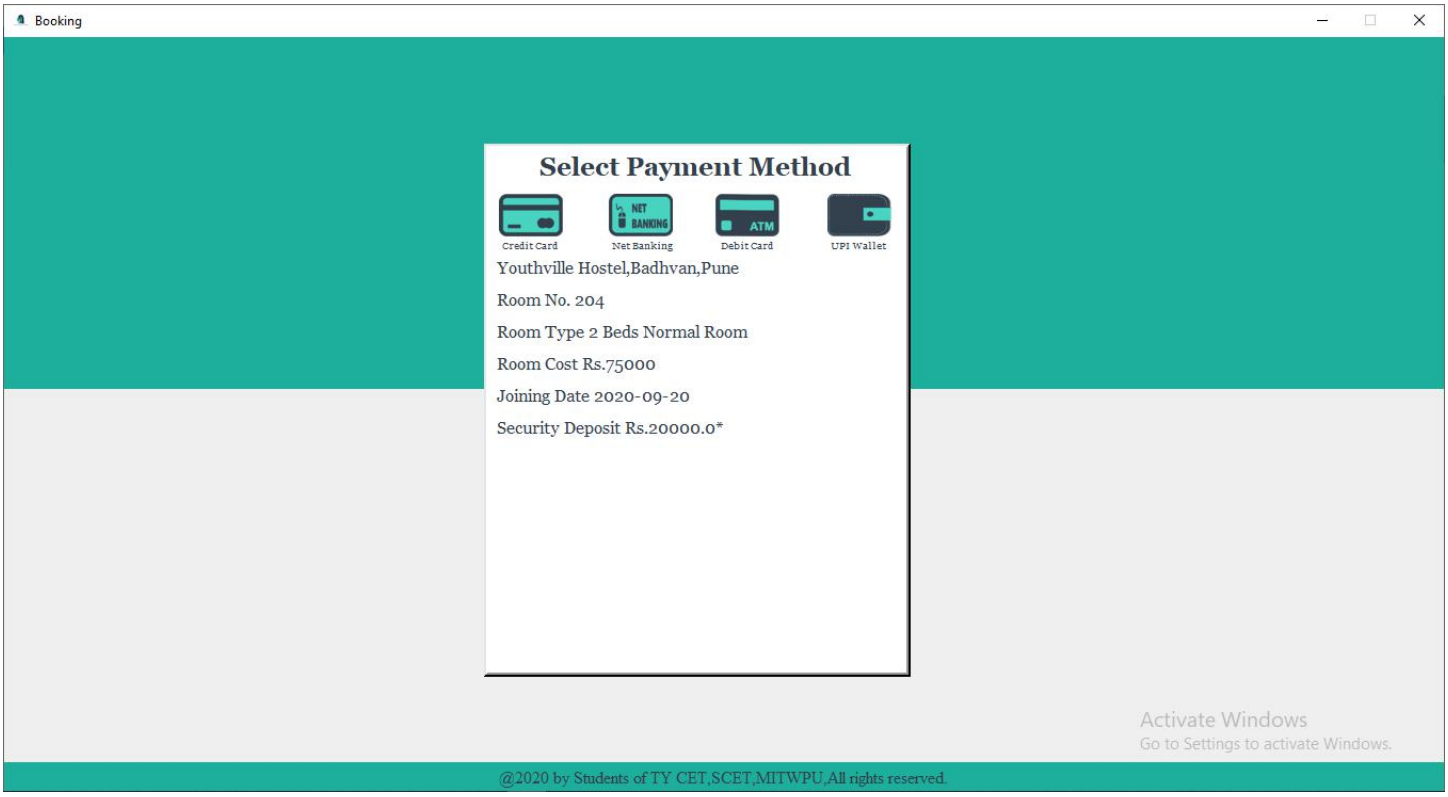

Booking
Select Hostel
Hostel ID:1
Vishwaraj Hostel
Kothrud,Pune
Female Hostel
Hostel ID:2
Vidyaniketan Hostel
Karve Nagar,Pune
Male Hostel
Hostel ID:3
Leelawati Hostel
Warje naka,Pune
Female Hostel
Hostel ID:4
Youthville Hostel
Badhvan,Pune
Male Hostel
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

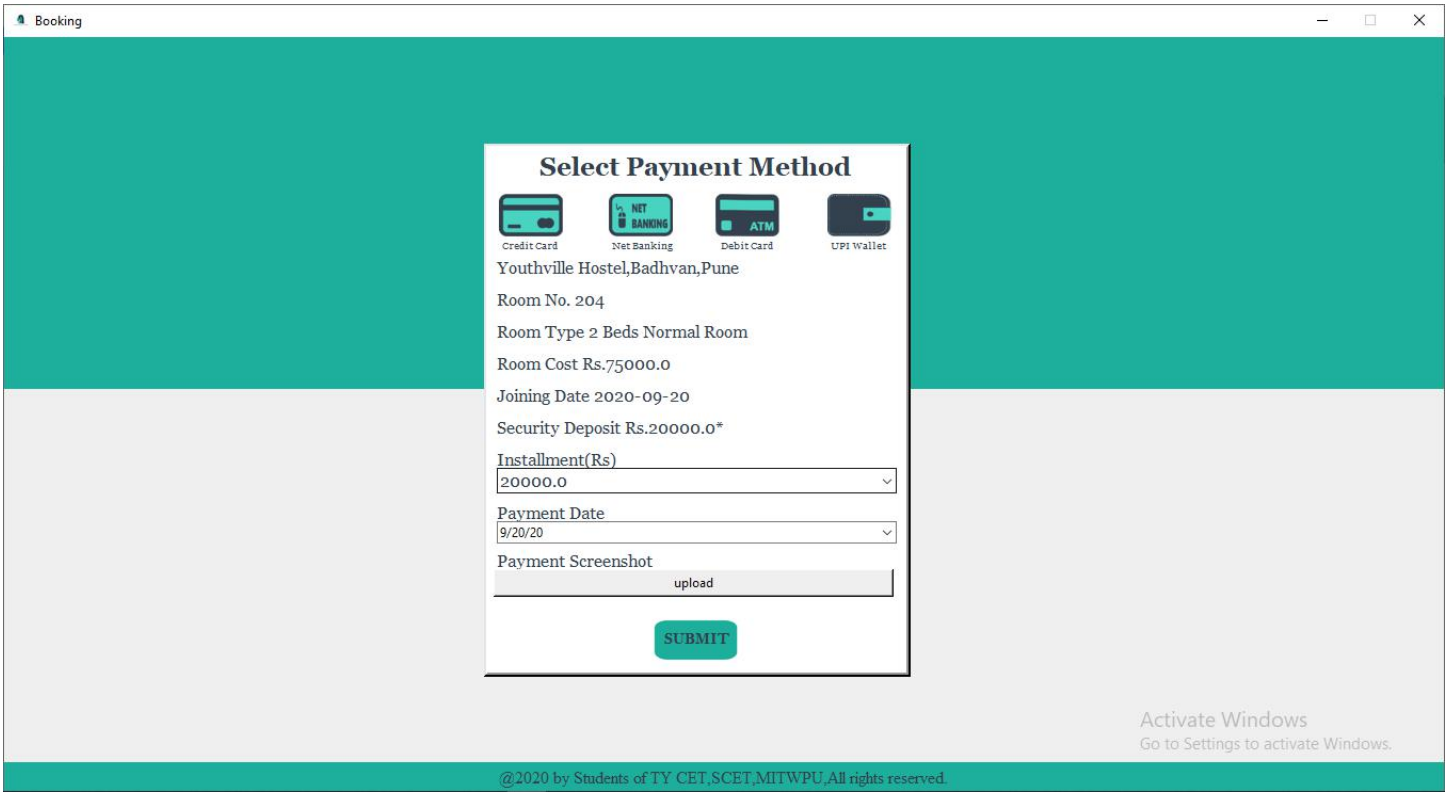

Booking
Select Room
Rs 75000.00
2 BEDS
Normal Room
Total Rooms 3
Rs 85000.00
3 BEDS
Normal Room
Total Rooms 6
Rs 750000.00
2 BEDS
AC Room
Total Rooms 3
Rs 125000.00
2 BEDS
Balcony Room
Total Rooms 3
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

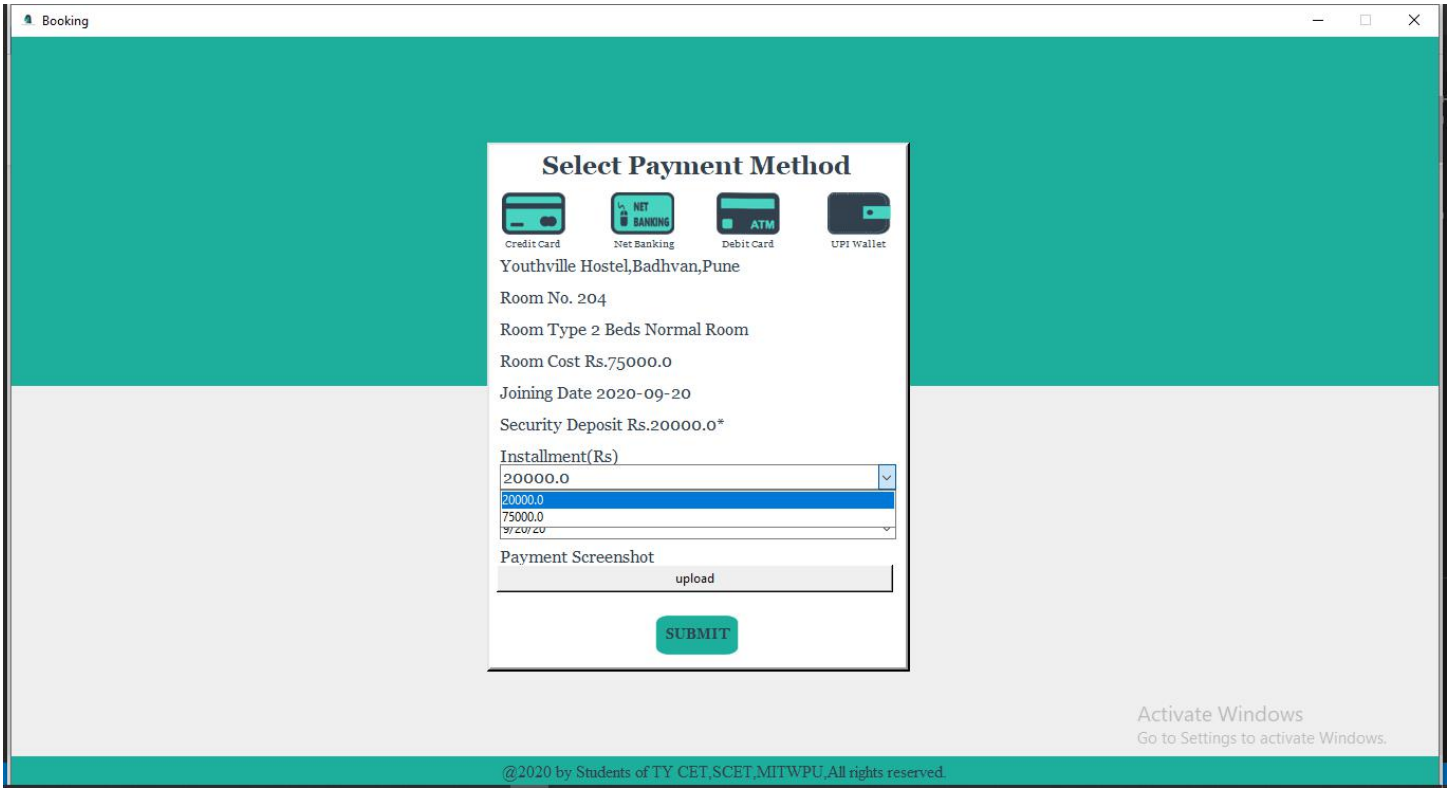

Booking
Select Room
Rs 75000.00
2 BEDS
Normal Room
Total Rooms 3
Rs 85000.00
3 BEDS
Normal Room
Total Rooms 6
Rs 750000.00
2 BEDS
AC Room
Total Rooms 3
Rs 125000.00
2 BEDS
Balcony Room
Total Rooms 3
Available Room No
204
104
204
304
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

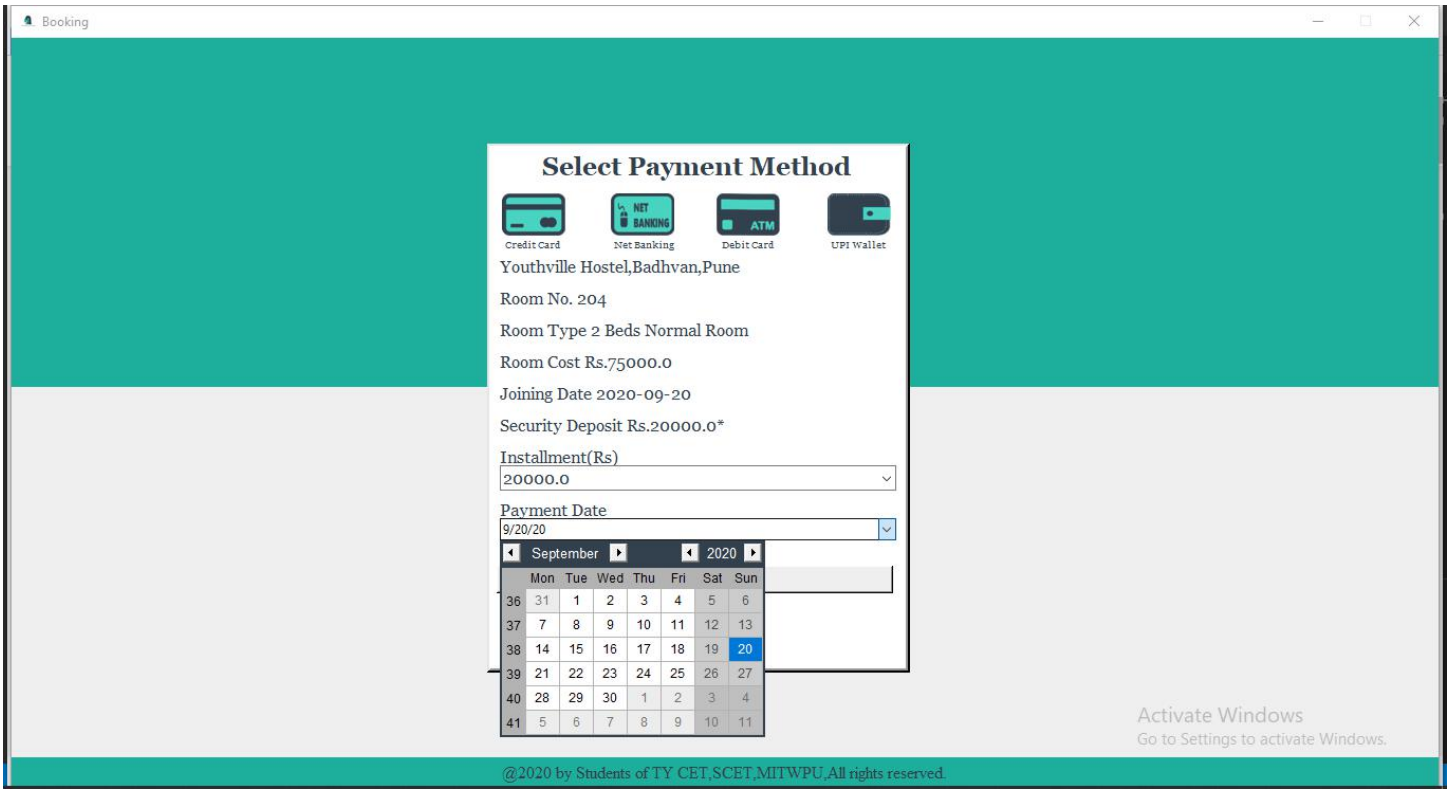

Booking
Select Room
Rs 75000.00
2 BEDS
Normal Room
Total Rooms 3
Rs 85000.00
3 BEDS
Normal Room
Total Rooms 6
Rs 750000.00
2 BEDS
AC Room
Total Rooms 3
Rs 125000.00
2 BEDS
Balcony Room
Total Rooms 3
Available Room No
204
9/20/20
September
2020
Mon Tue Wed Thu Fri Sat Sun
SUBMI
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SC

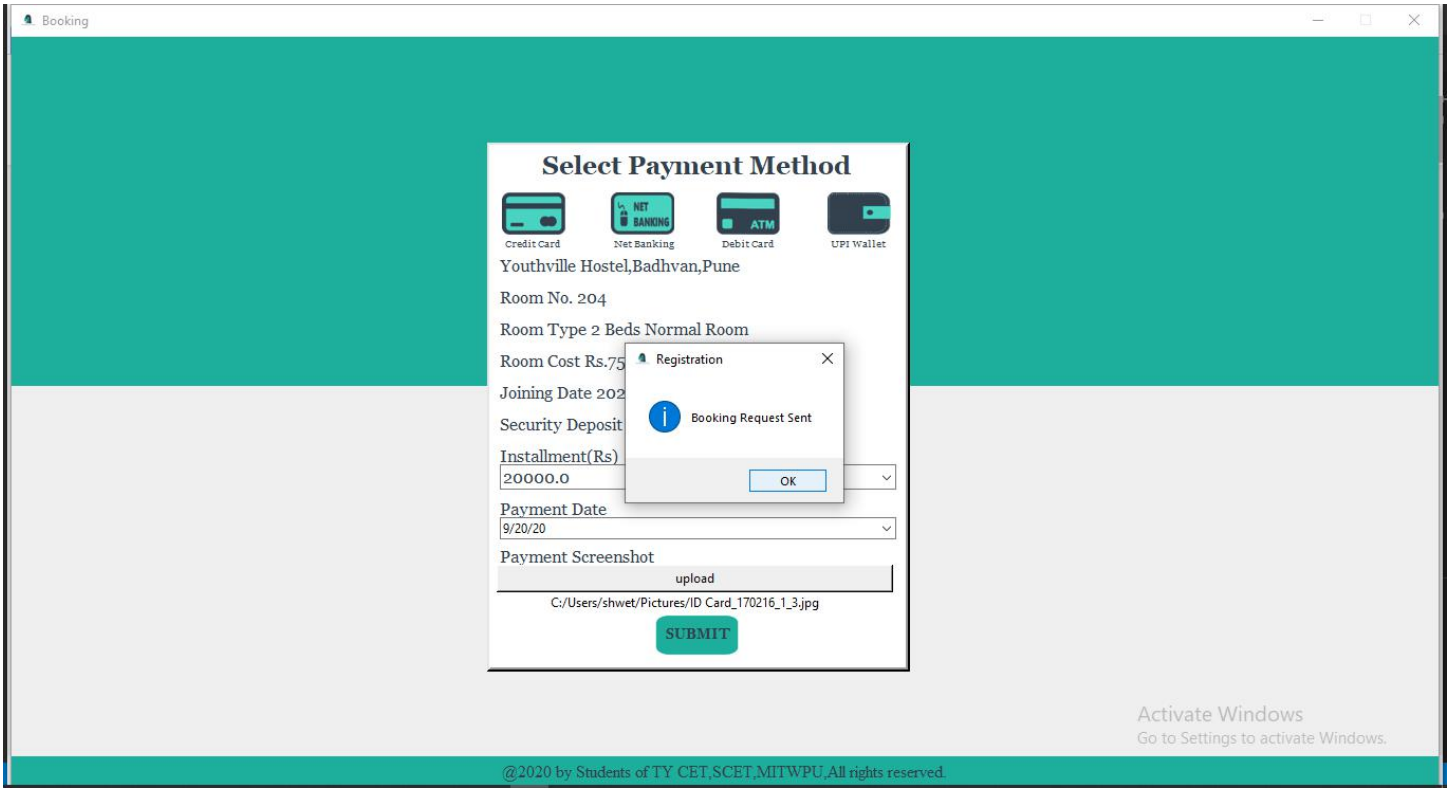

Booking
Select Room
Rs 75000.00
2 BEDS
Normal Room
Total Rooms 3
Booking
Booking Will be Confirmed Only
If Security Deposit Is paid!!
OK
Cancel
Rs 125000.00
2 BEDS
Balcony Room
Total Rooms 3
Available Room No
204
9/20/20
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

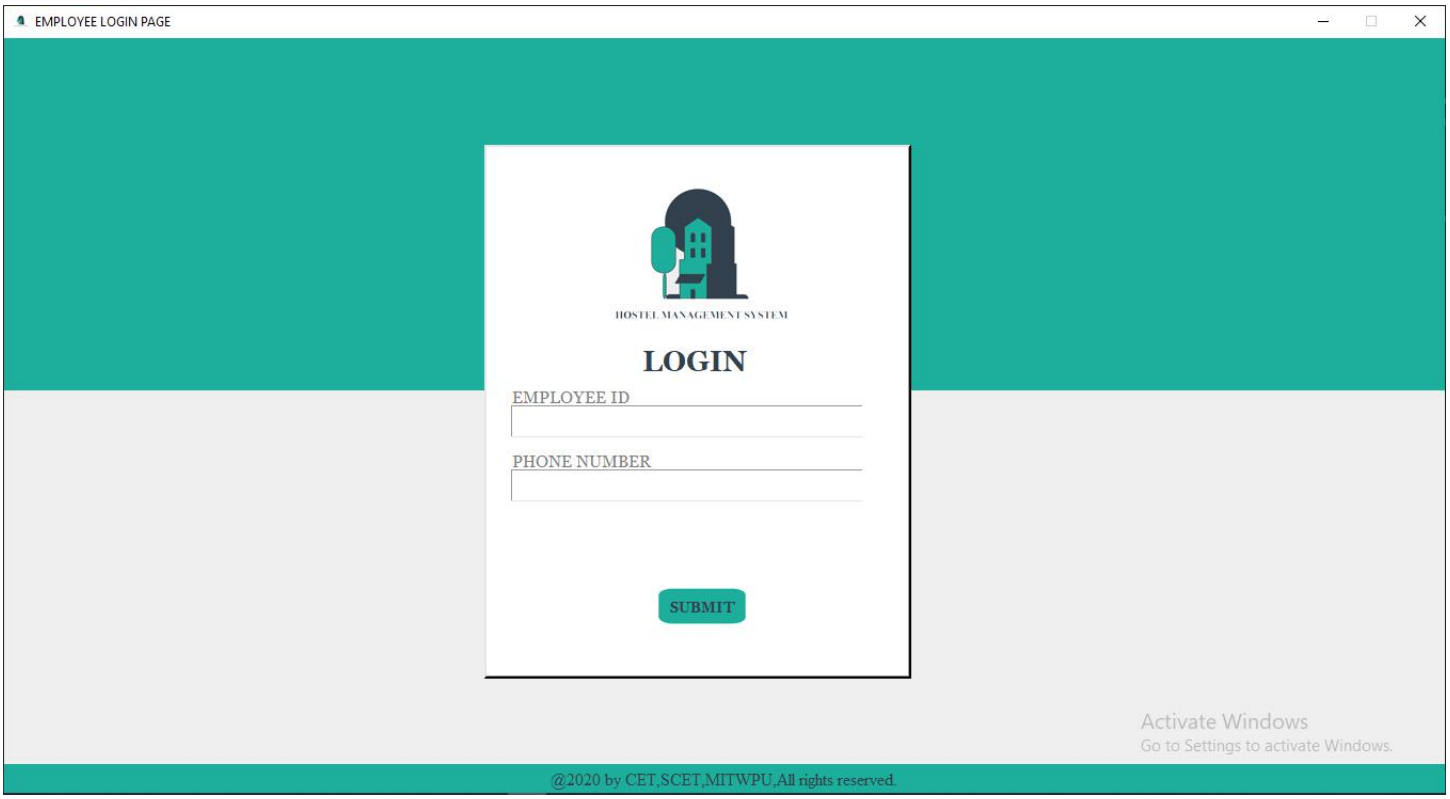

Booking
Select Payment Method
Credit Card
Net Banking
Debit Card
UPI Wallet
Youthville Hostel,Badhvan,Pune
Room No. 204
Room Type 2 Beds Normal Room
Room Cost Rs.75000
Joining Date 2020-09-20
Security Deposit Rs.20000.0*
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

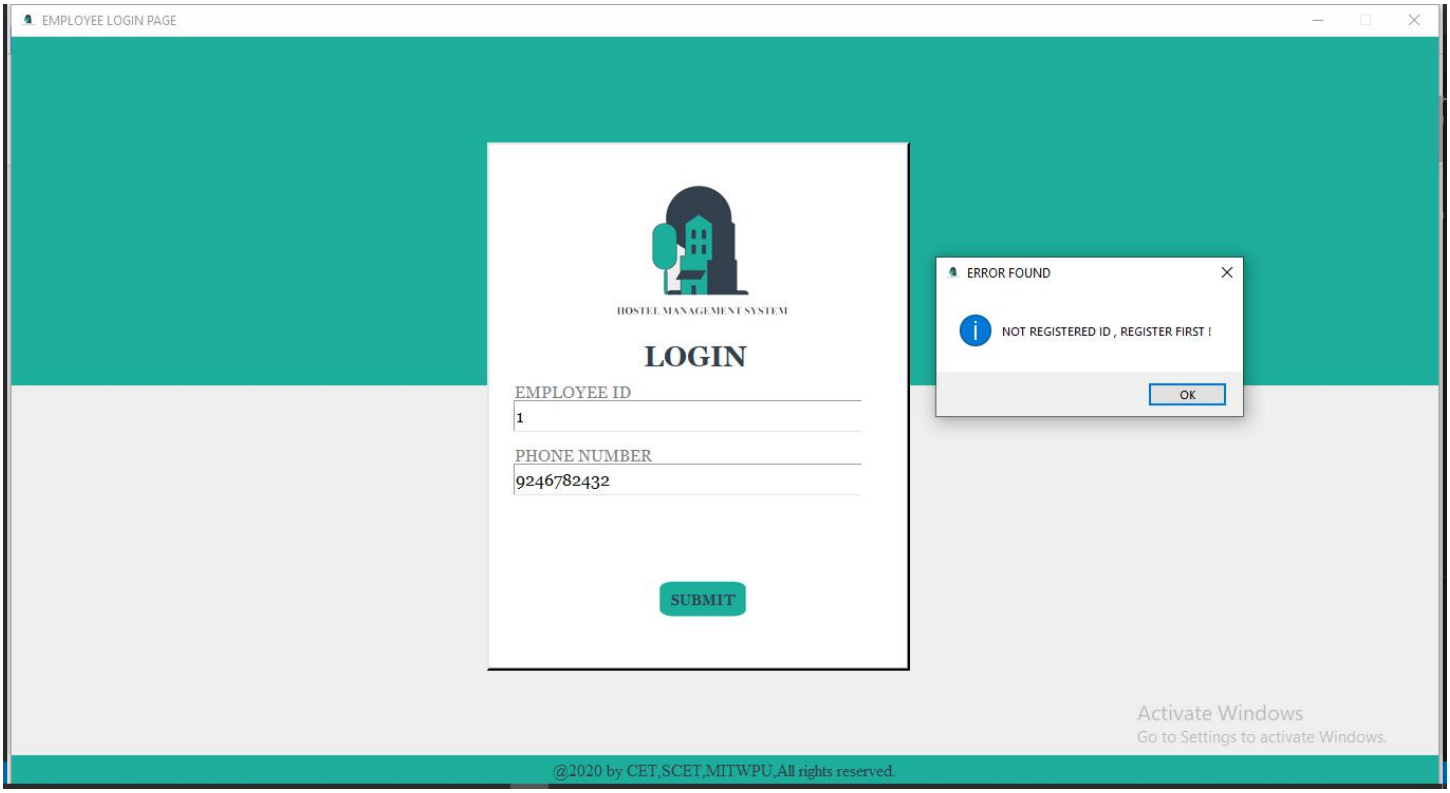

Booking
Select Payment Method
Credit Card
Net Banking
Debit Card
UPI Wallet
Youthville Hostel,Badhvan,Pune
Room No. 204
Room Type 2 Beds Normal Room
Room Cost Rs.75000.0
Joining Date 2020-09-20
Security Deposit Rs.20000.0*
Installment(Rs)
20000.0
Payment Date
9/20/20
Payment Screenshot
upload
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

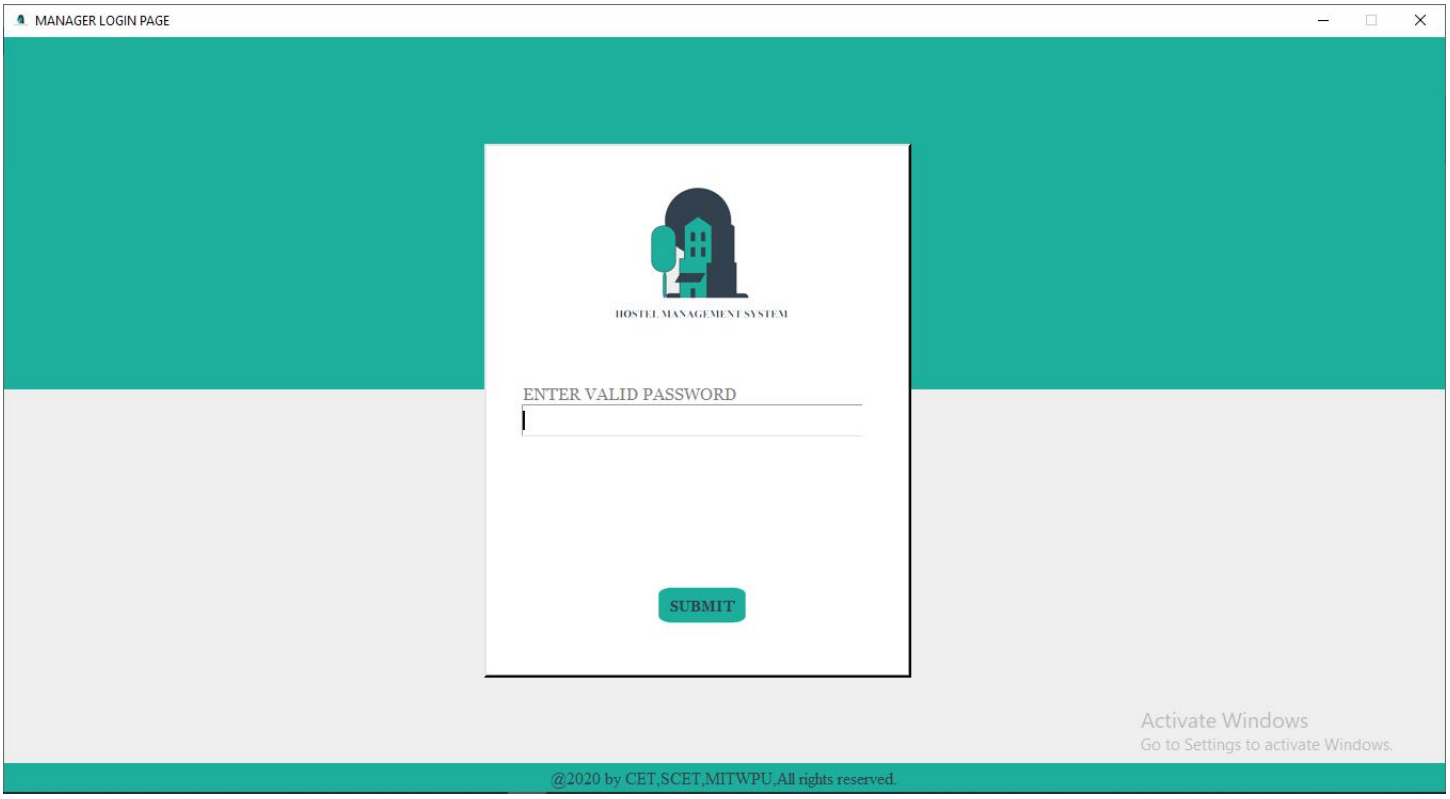

Booking
Select Payment Method
Credit Card
Net Banking
Debit Card
UPI Wallet
Youthville Hostel,Badhvan,Pune
Room No. 204
Room Type 2 Beds Normal Room
Room Cost Rs.75000.0
Joining Date 2020-09-20
Security Deposit Rs.20000.0*
Installment(Rs)
20000.0
20000.0
75000.0
Payment Screenshot
upload
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

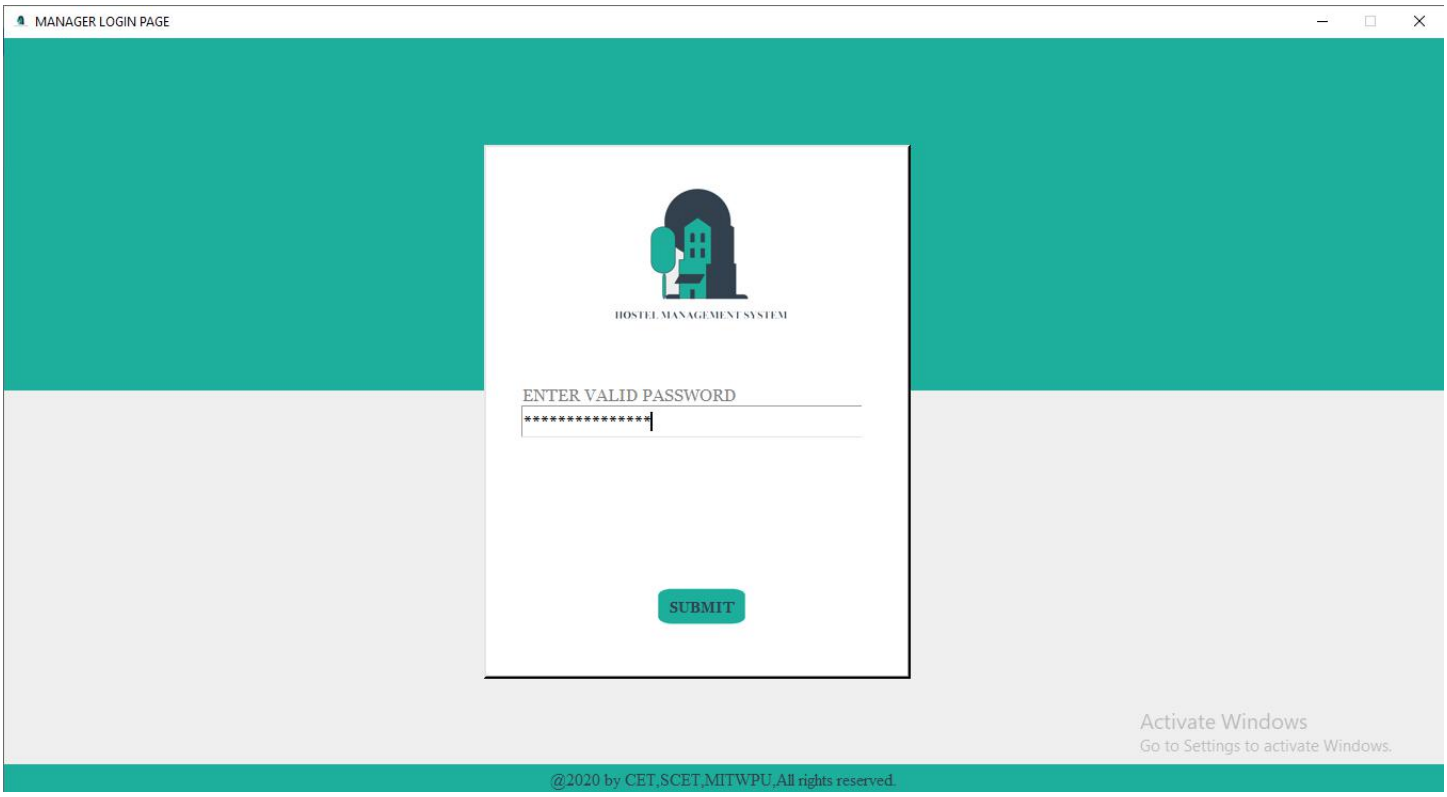

Booking
Select Payment Method
Credit Card
Net Banking
Debit Card
UPI Wallet
Youthville Hostel,Badhvan,Pune
Room No. 204
Room Type 2 Beds Normal Room
Room Cost Rs.75000.0
Joining Date 2020-09-20
Security Deposit Rs.20000.0*
Installment(Rs)
20000.0
Payment Date
9/20/20
September
2020
Mon Tue Wed Thu Fri 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
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

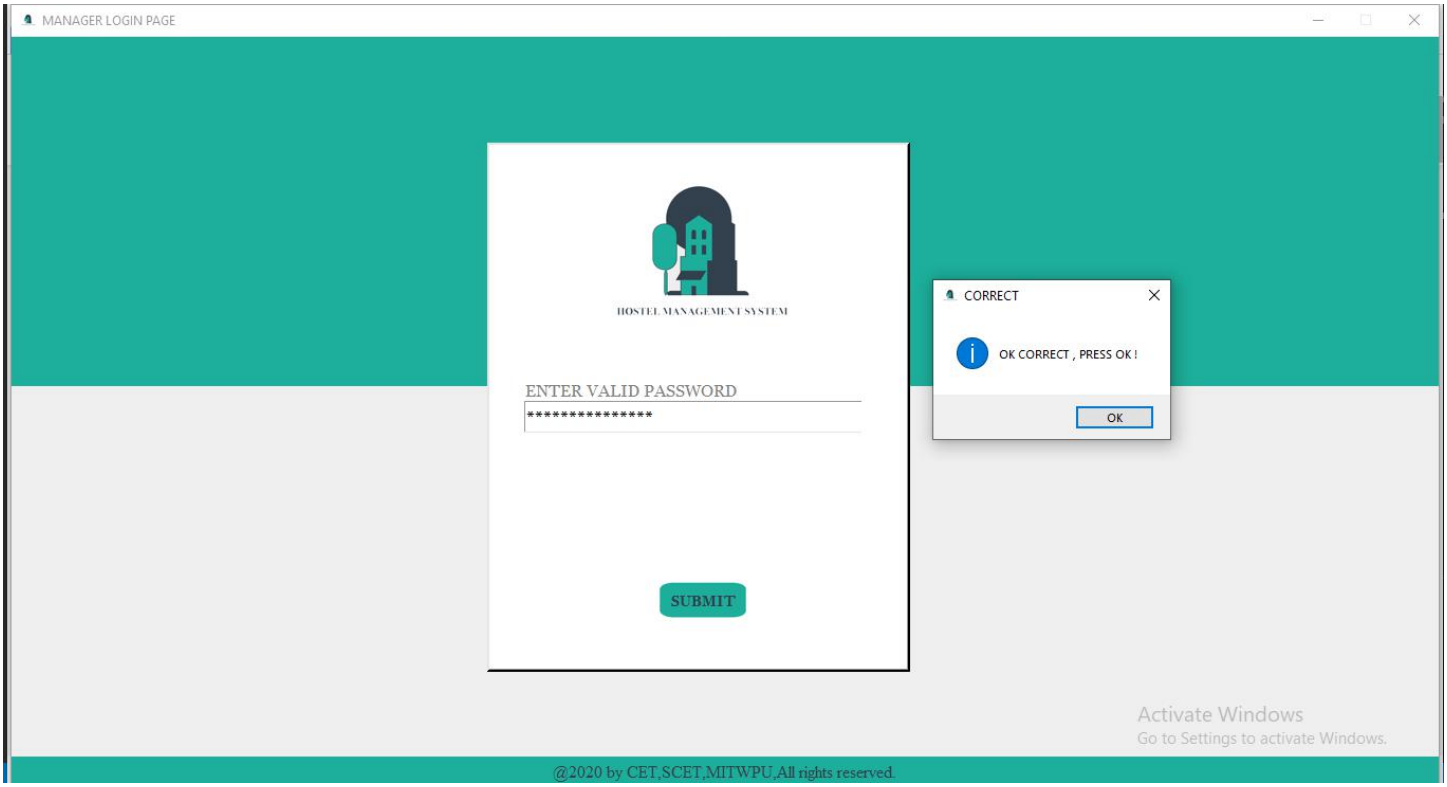

Booking
Select Payment Method
Credit Card
Net Banking
Debit Card
UPI Wallet
Youthville Hostel,Badhvan,Pune
Room No. 204
Room Type 2 Beds Normal Room
Room Cost Rs.75
Joining Date 202
Security Deposit
Installment(Rs)
20000.0
Payment Date
9/20/20
Payment Screenshot
upload
C:/Users/shwet/Pictures/ID Card_170216_1_3.jpg
SUBMIT
Registration
Booking Request Sent
OK
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

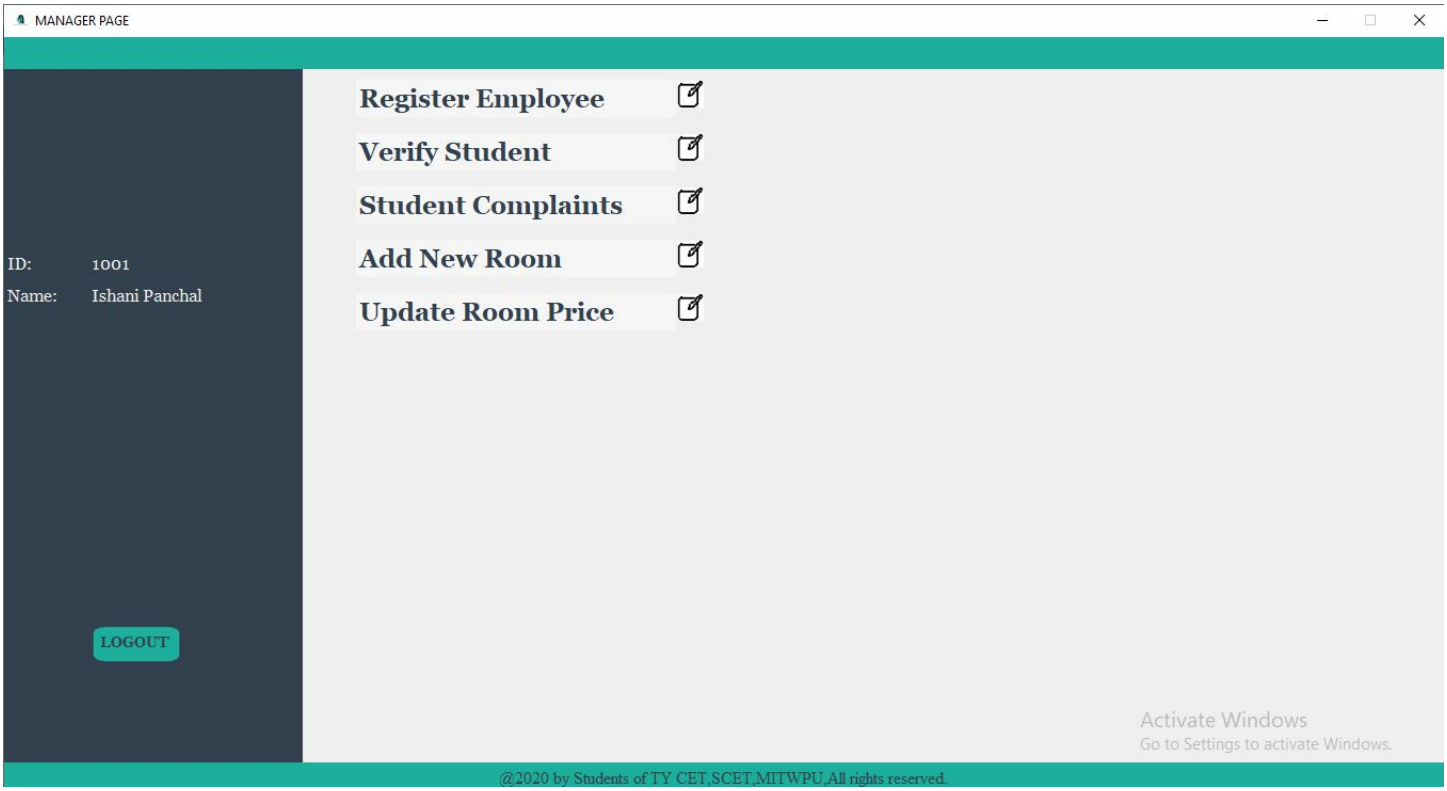

EMPLOYEE LOGIN PAGE
HOSTEL MANAGEMENT SYSTEM
LOGIN
EMPLOYEE ID
PHONE NUMBER
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by CET,SCET,MITWPU,All rights reserved.

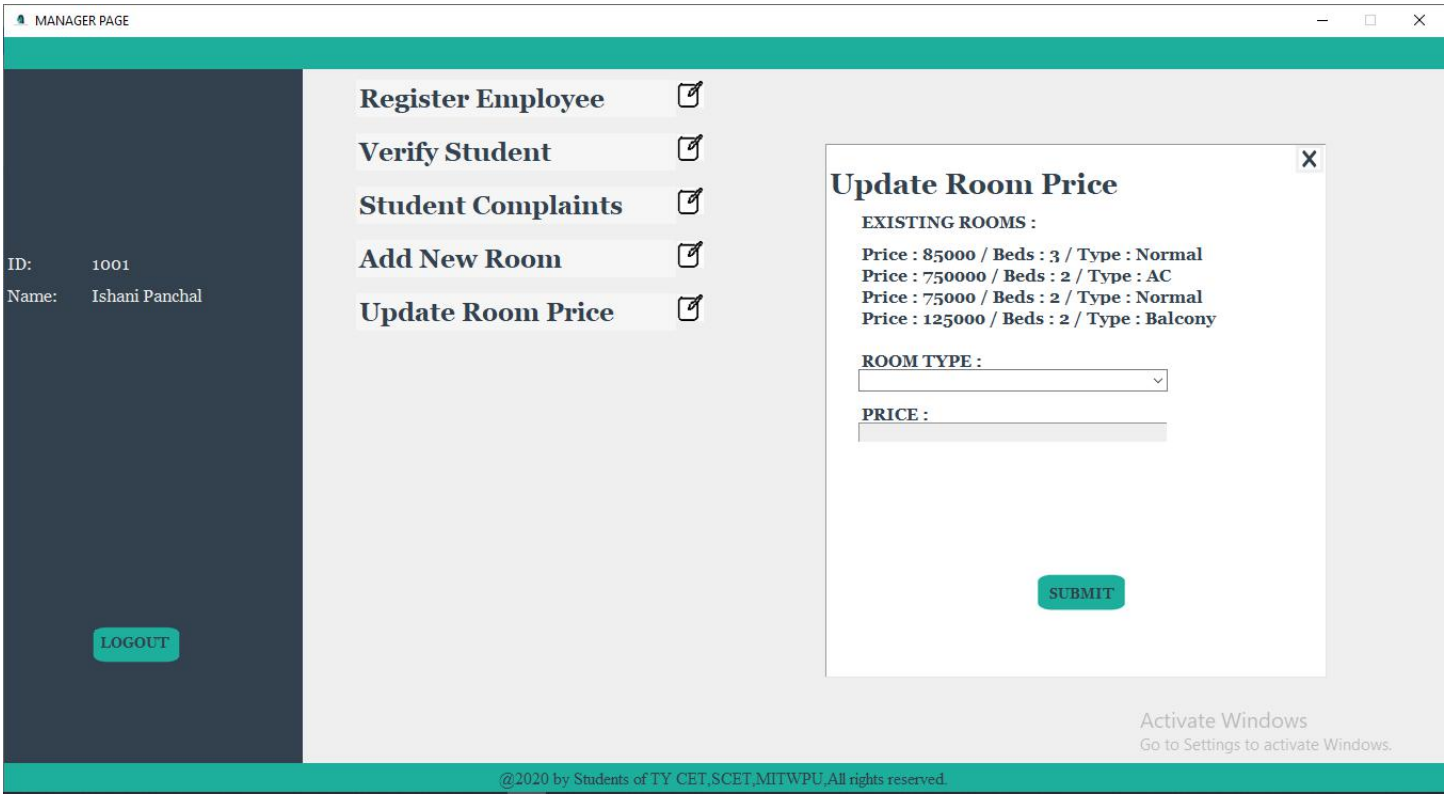

EMPLOYEE LOGIN PAGE
HOSTEL MANAGEMENT SYSTEM
LOGIN
EMPLOYEE ID
1
PHONE NUMBER
9246782432
SUBMIT
ERROR FOUND
NOT REGISTERED ID , REGISTER FIRST !
OK
Activate Windows
Go to Settings to activate Windows.
@2020 by CET,SCET,MITWPU,All rights reserved.

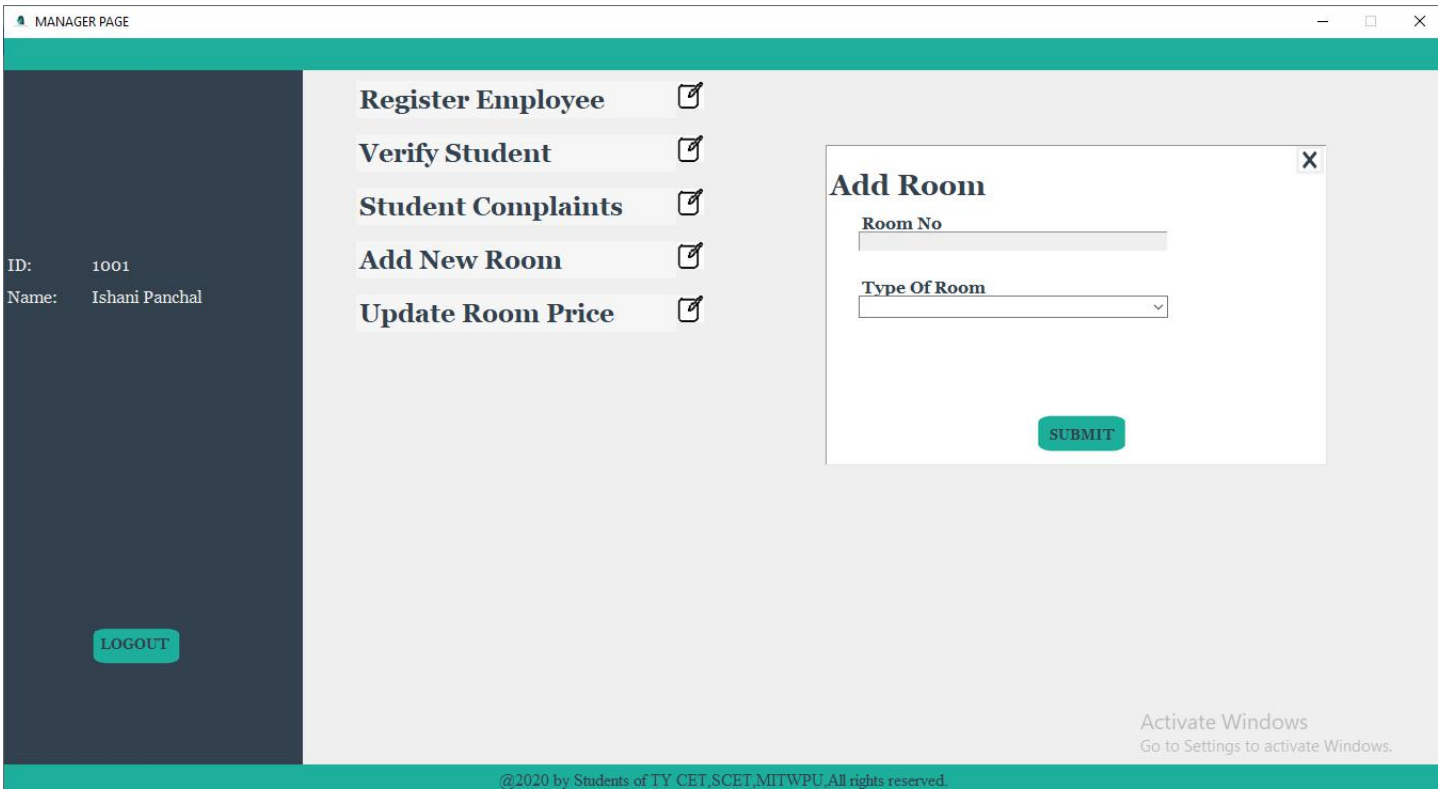

MANAGER LOGIN PAGE
HOSTEL MANAGEMENT SYSTEM
ENTER VALID PASSWORD
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by CET,SCET,MITWPU,All rights reserved.

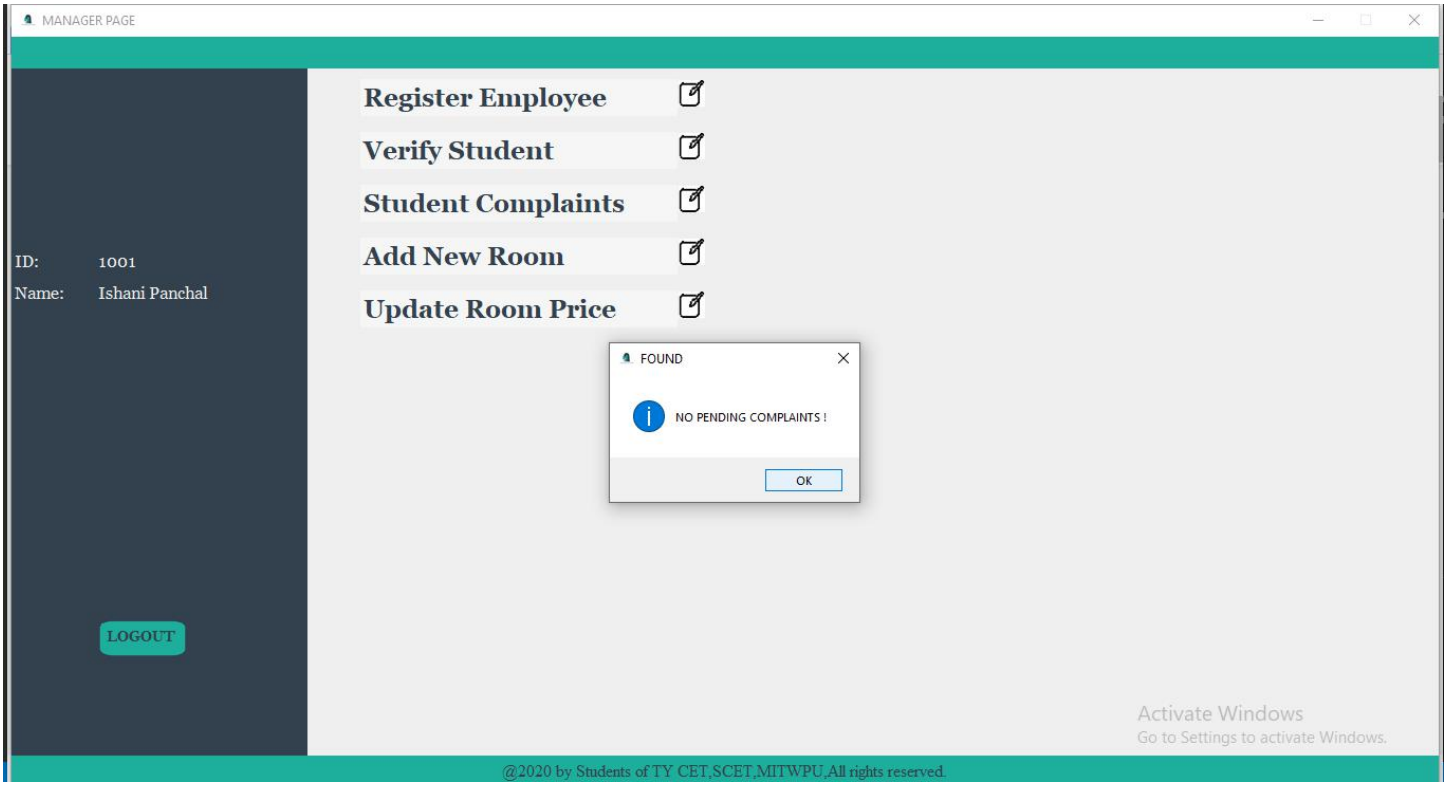

MANAGER LOGIN PAGE
HOSTEL MANAGEMENT SYSTEM
ENTER VALID PASSWORD
****
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by CET,SCET,MITWPU,All rights reserved.

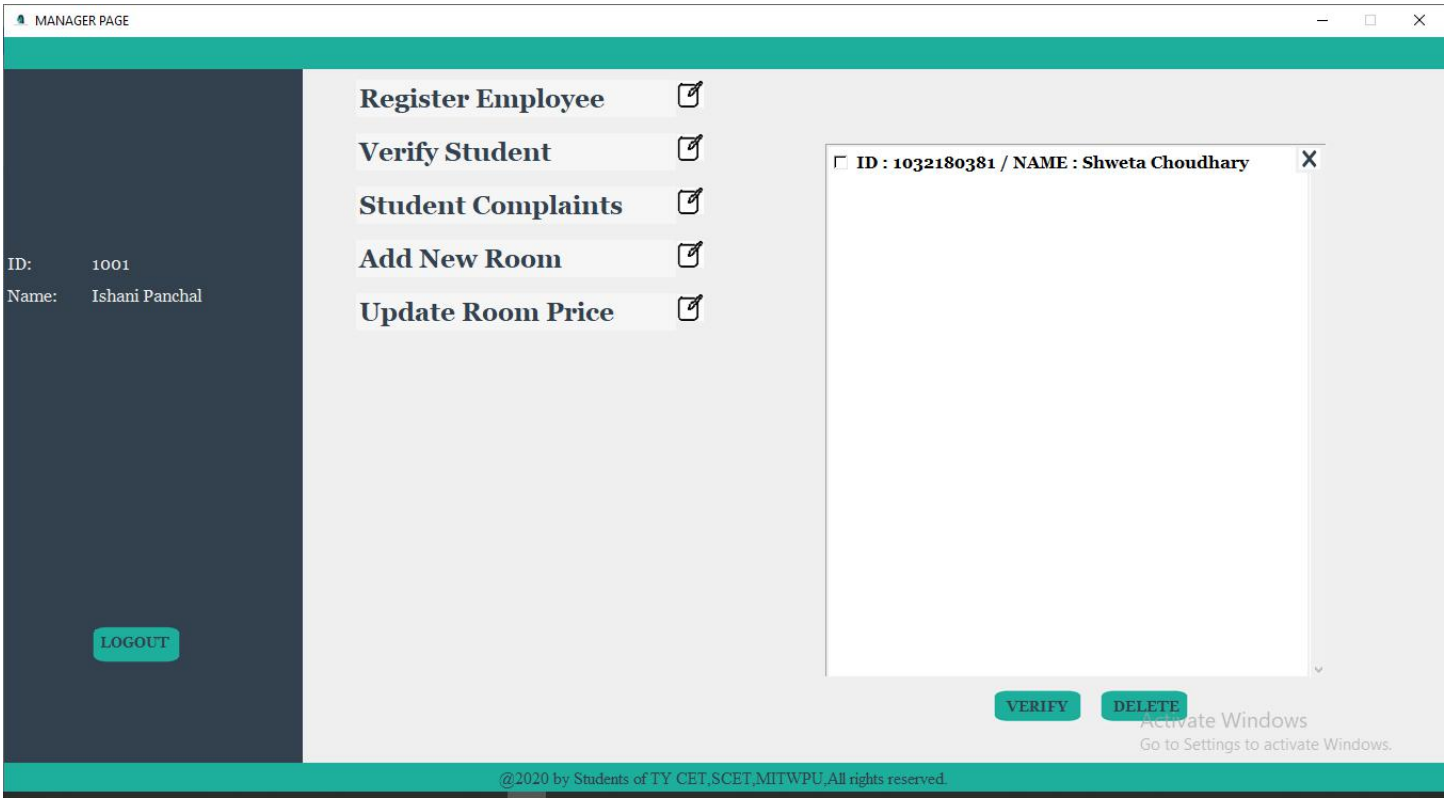

MANAGER LOGIN PAGE
HOSTEL MANAGEMENT SYSTEM
ENTER VALID PASSWORD
****
SUBMIT
CORRECT
OK CORRECT , PRESS OK !
OK
Activate Windows
Go to Settings to activate Windows.
@2020 by CET,SCET,MITWPU,All rights reserved.

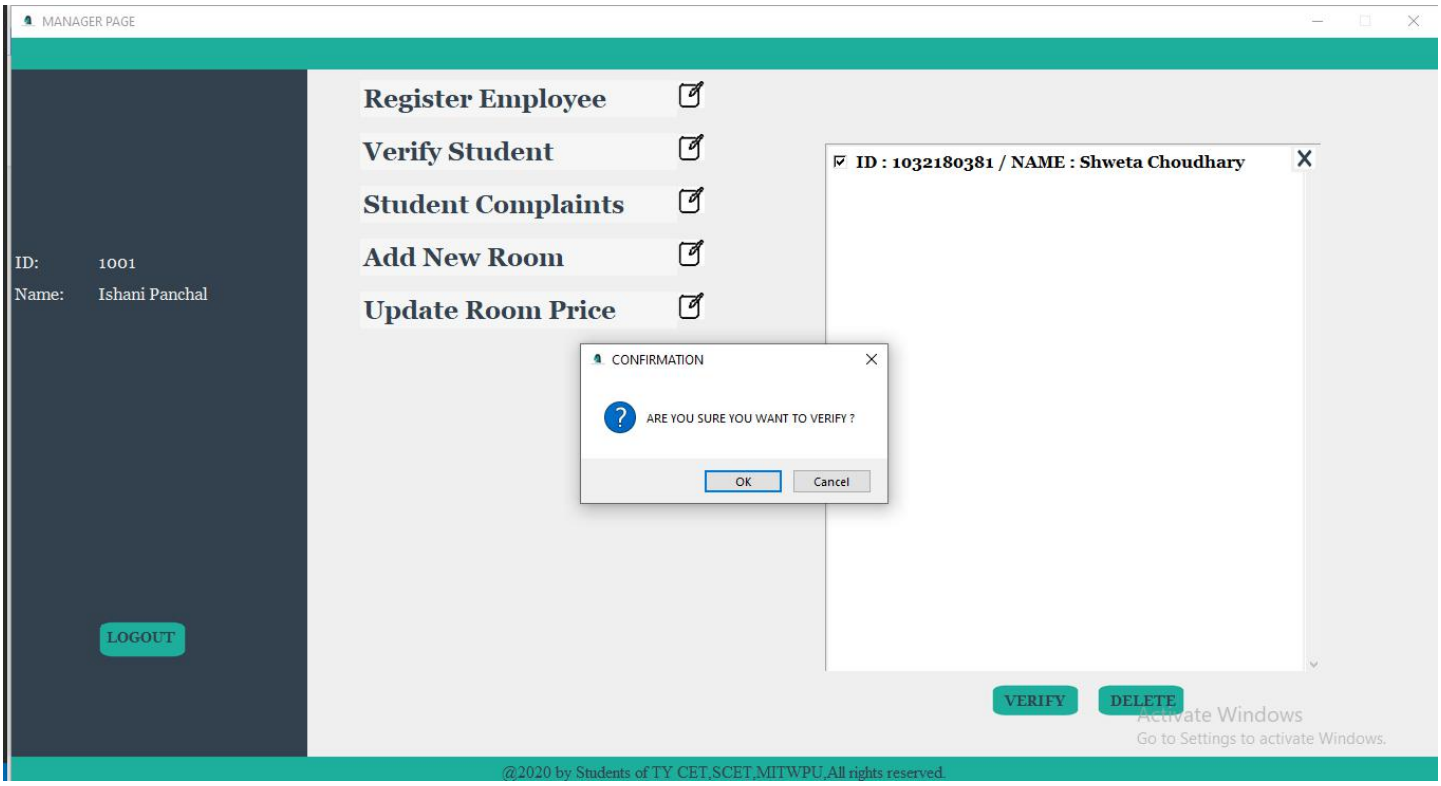

MANAGER PAGE
Register Employee
Verify Student
Student Complaints
Add New Room
Update Room Price
ID: 1001
Name: Ishani Panchal
LOGOUT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

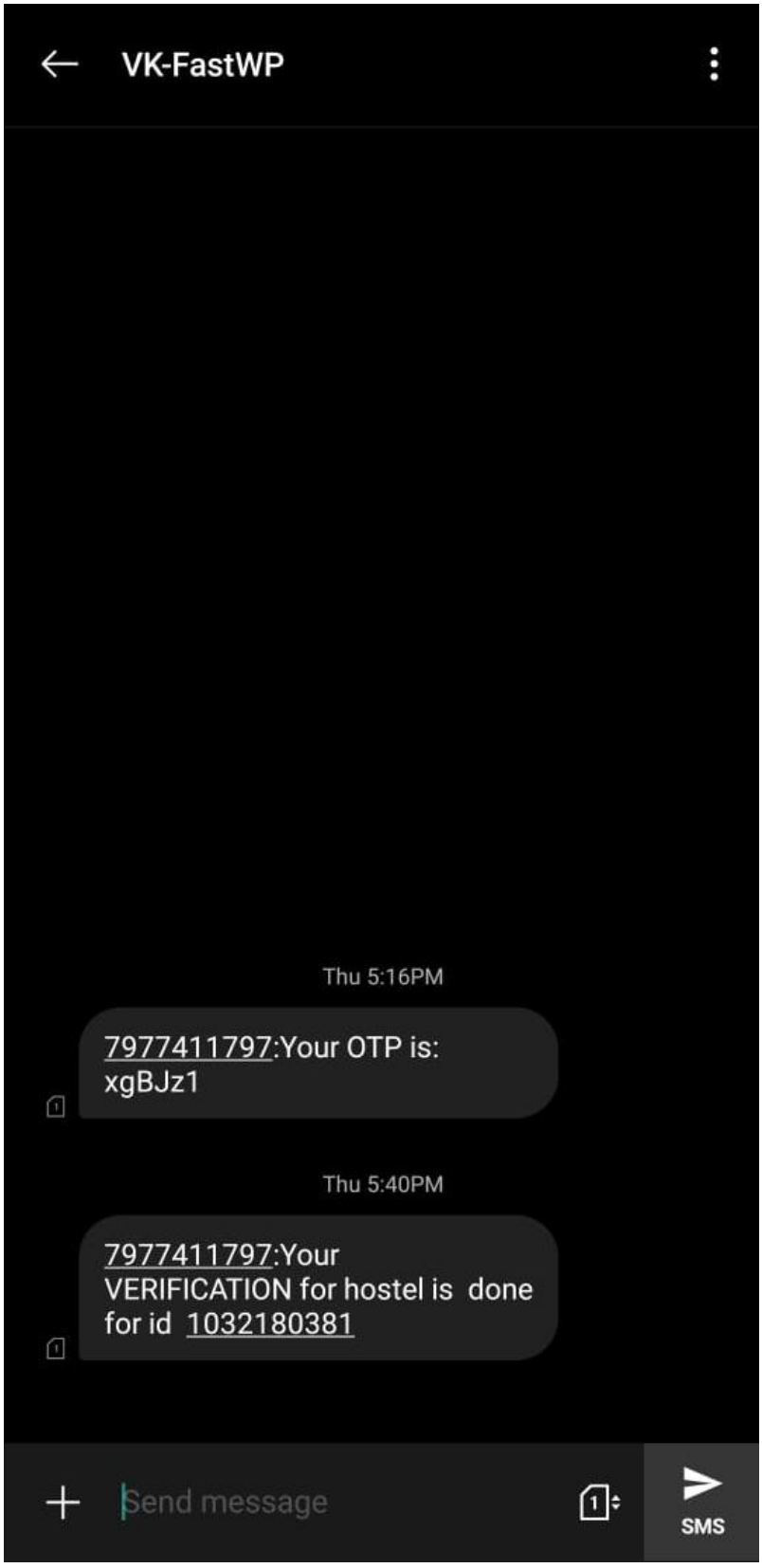

MANAGER PAGE
Register Employee
Verify Student
Student Complaints
Add New Room
Update Room Price
ID: 1001
Name: Ishani Panchal
LOGOUT
Update Room Price
EXISTING ROOMS :
Price : 85000 / Beds : 3 / Type : Normal
Price : 750000 / Beds : 2 / Type : AC
Price : 75000 / Beds : 2 / Type : Normal
Price : 125000 / Beds : 2 / Type : Balcony
ROOM TYPE :
PRICE :
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

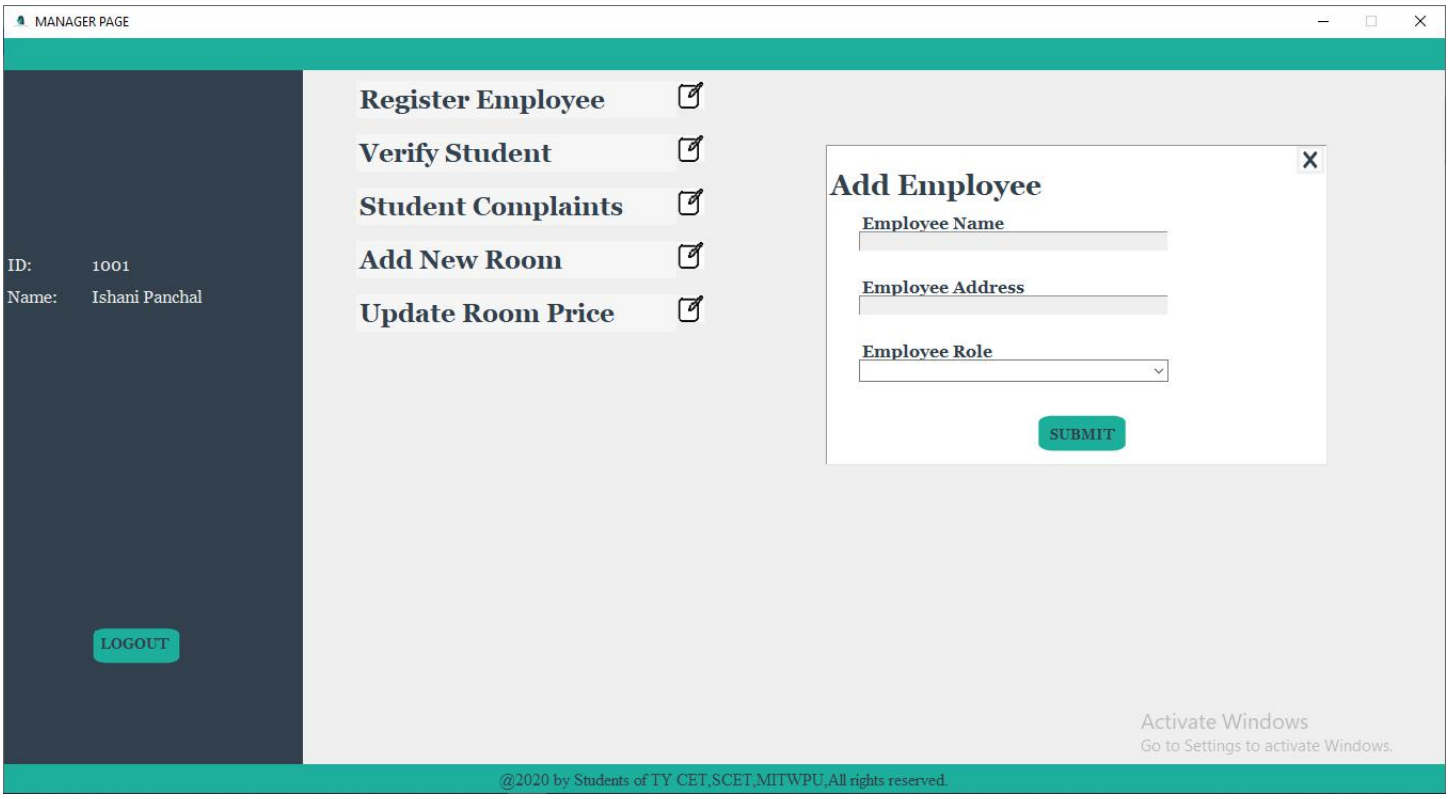

MANAGER PAGE
Register Employee
Verify Student
Student Complaints
Add New Room
Update Room Price
ID: 1001
Name: Ishani Panchal
LOGOUT
Add Room
Room No
Type Of Room
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

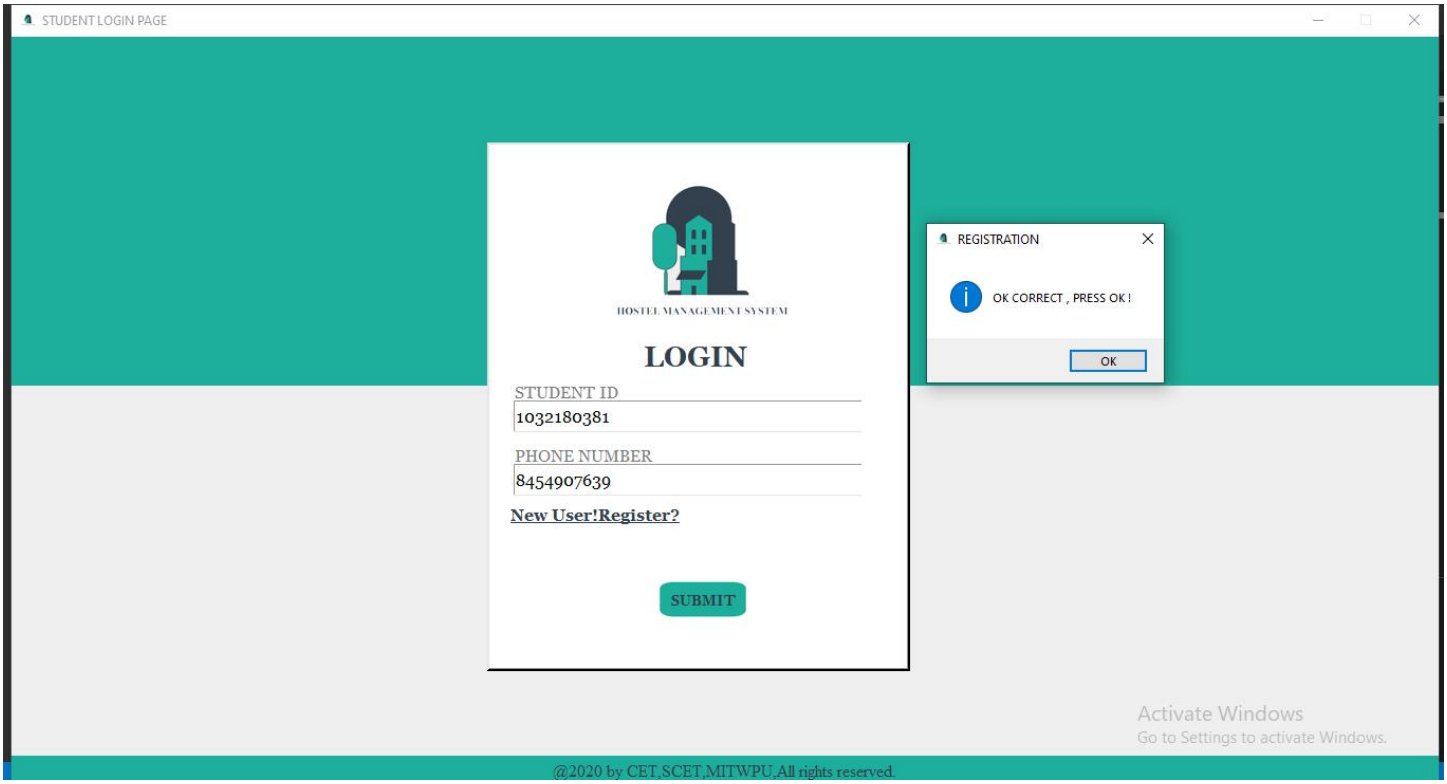

MANAGER PAGE
Register Employee
Verify Student
Student Complaints
Add New Room
Update Room Price
ID: 1001
Name: Ishani Panchal
LOGOUT
FOUND
NO PENDING COMPLAINTS !
OK
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

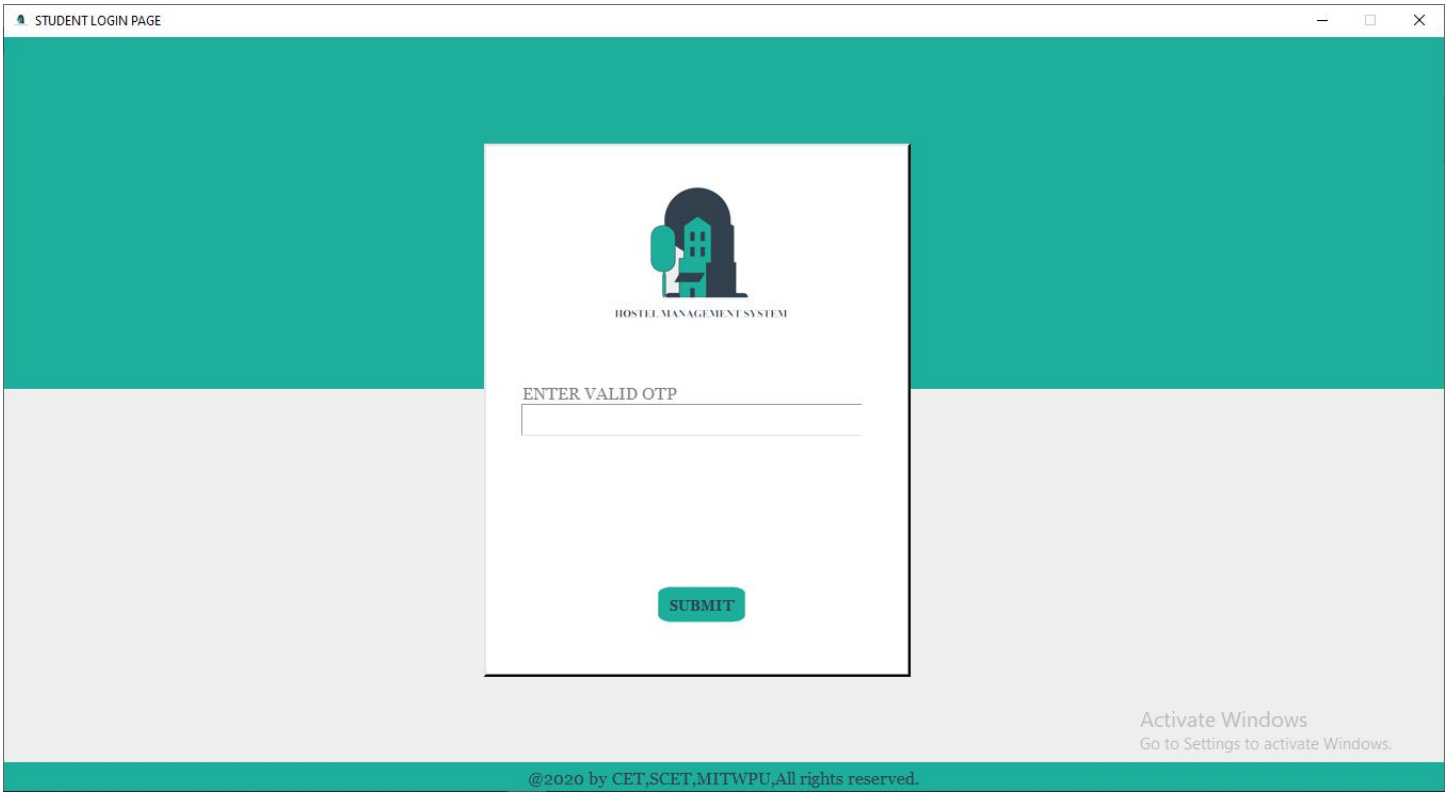

MANAGER PAGE
Register Employee
Verify Student
Student Complaints
Add New Room
Update Room Price
ID: 1001
Name: Ishani Panchal
LOGOUT
ID : 1032180381 / NAME : Shweta Choudhary
VERIFY
DELETE
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

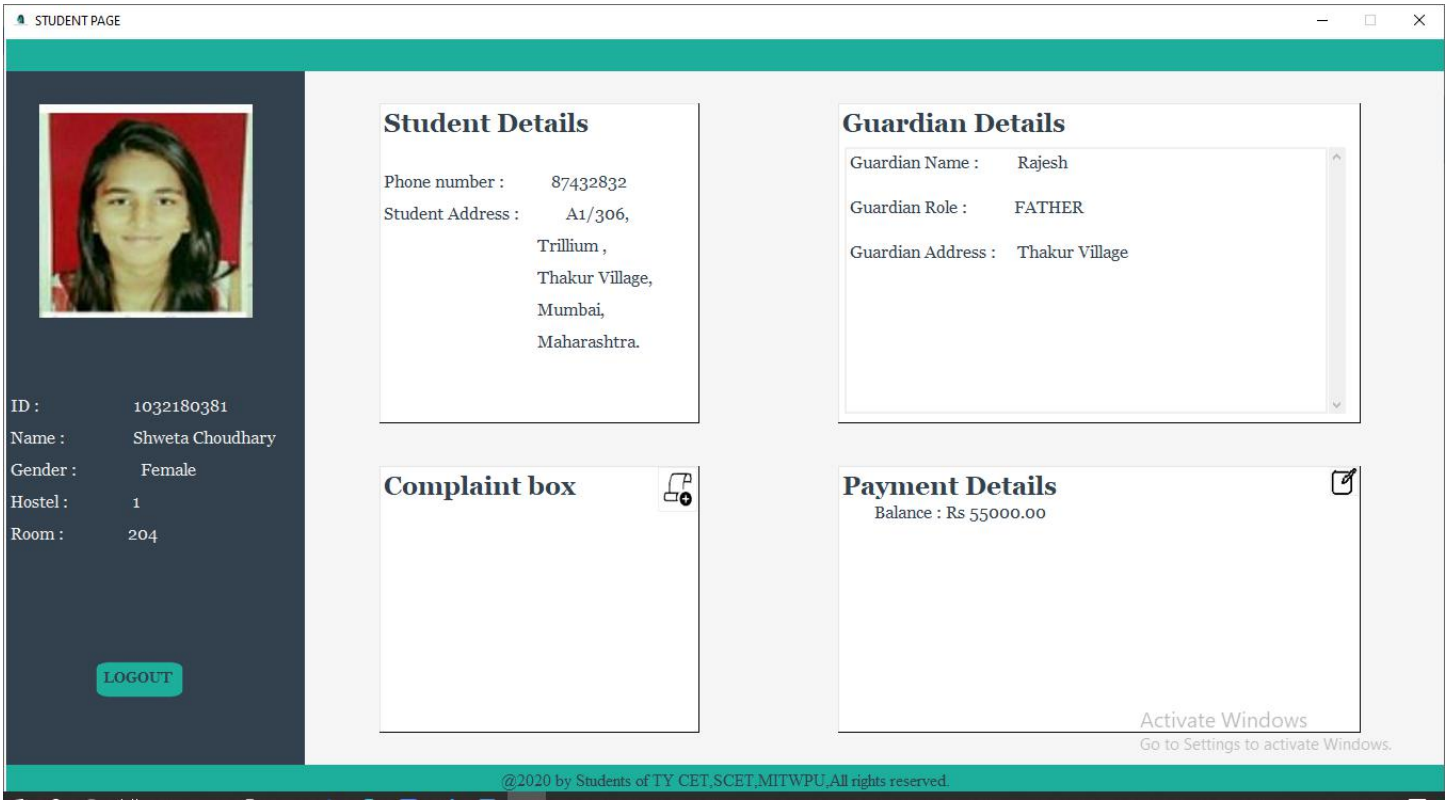

MANAGER PAGE
Register Employee
Verify Student
Student Complaints
Add New Room
Update Room Price
ID: 1001
Name: Ishani Panchal
LOGOUT
ID : 1032180381 / NAME : Shweta Choudhary
CONFIRMATION
ARE YOU SURE YOU WANT TO VERIFY ?
OK
Cancel
VERIFY
DELETE
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

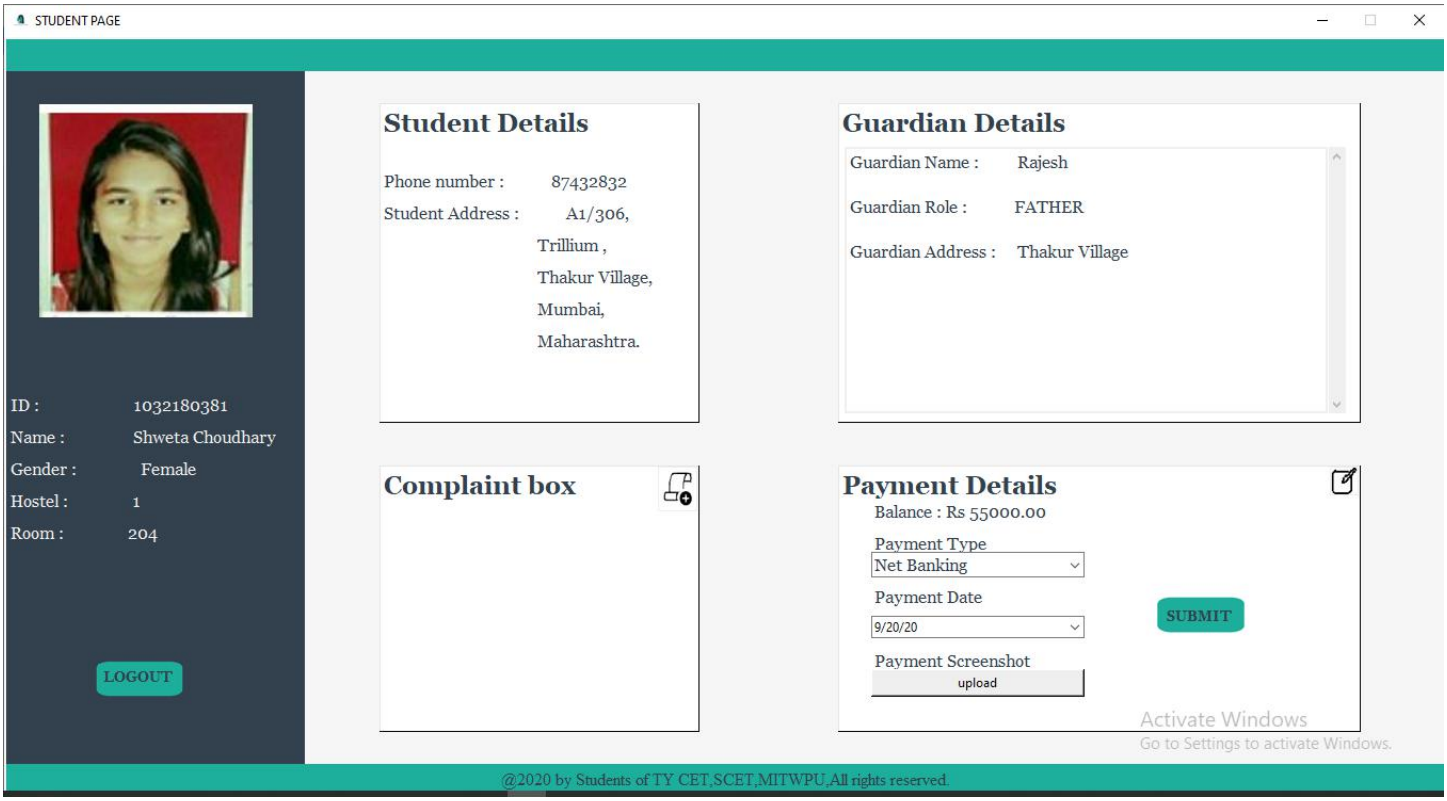

VK-FastWP
Thu 5:16PM
7977411797:Your OTP is: xgBJz1
Thu 5:40PM
7977411797:Your VERIFICATION for hostel is done for id 1032180381
Send message
SMS

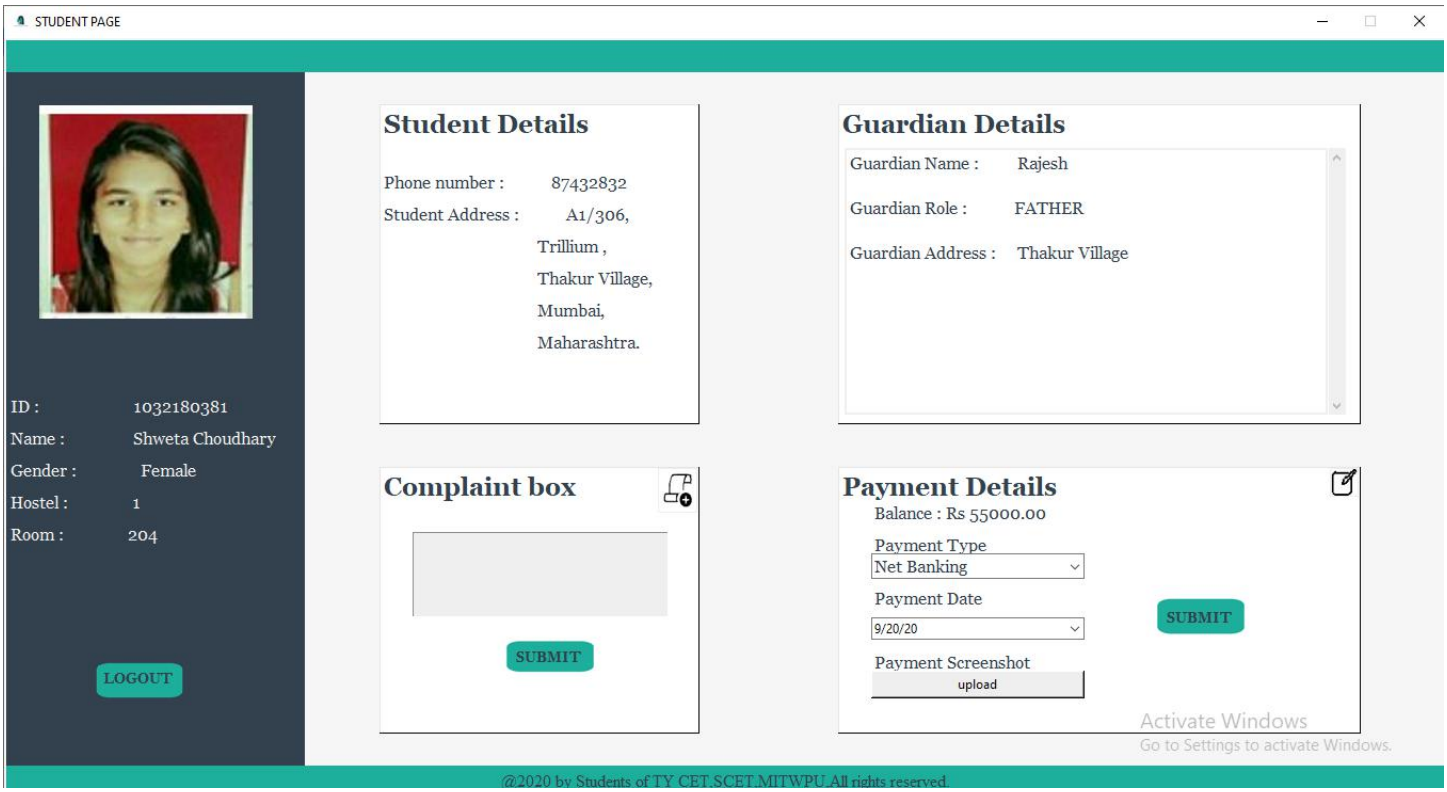

MANAGER PAGE
Register Employee
Verify Student
Student Complaints
Add New Room
Update Room Price
ID: 1001
Name: Ishani Panchal
LOGOUT
Add Employee
Employee Name
Employee Address
Employee Role
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.


STUDENT LOGIN PAGE
HOSTEL MANAGEMENT SYSTEM
LOGIN
STUDENT ID
1032180381
PHONE NUMBER
8454907639
New User!Register?
SUBMIT
REGISTRATION
OK CORRECT , PRESS OK !
OK
Activate Windows
Go to Settings to activate Windows.
@2020 by CET,SCET,MITWPU,All rights reserved.


STUDENT LOGIN PAGE
HOSTEL MANAGEMENT SYSTEM
ENTER VALID OTP
SUBMIT
Activate Windows
Go to Settings to activate Windows.
@2020 by CET,SCET,MITWPU,All rights reserved.


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
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.


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
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.


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
Activate Windows
Go to Settings to activate Windows.
@2020 by Students of TY CET,SCET,MITWPU,All rights reserved.

*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
- www.edureka.co
- www.geeksforgeeks.org
- www.codemy.com