
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 – accepting correct student info and payment requirements.

*TOOLS AND TECHNOLOGIES USED :-

Implementation of hostel management system using MYSQL and python.

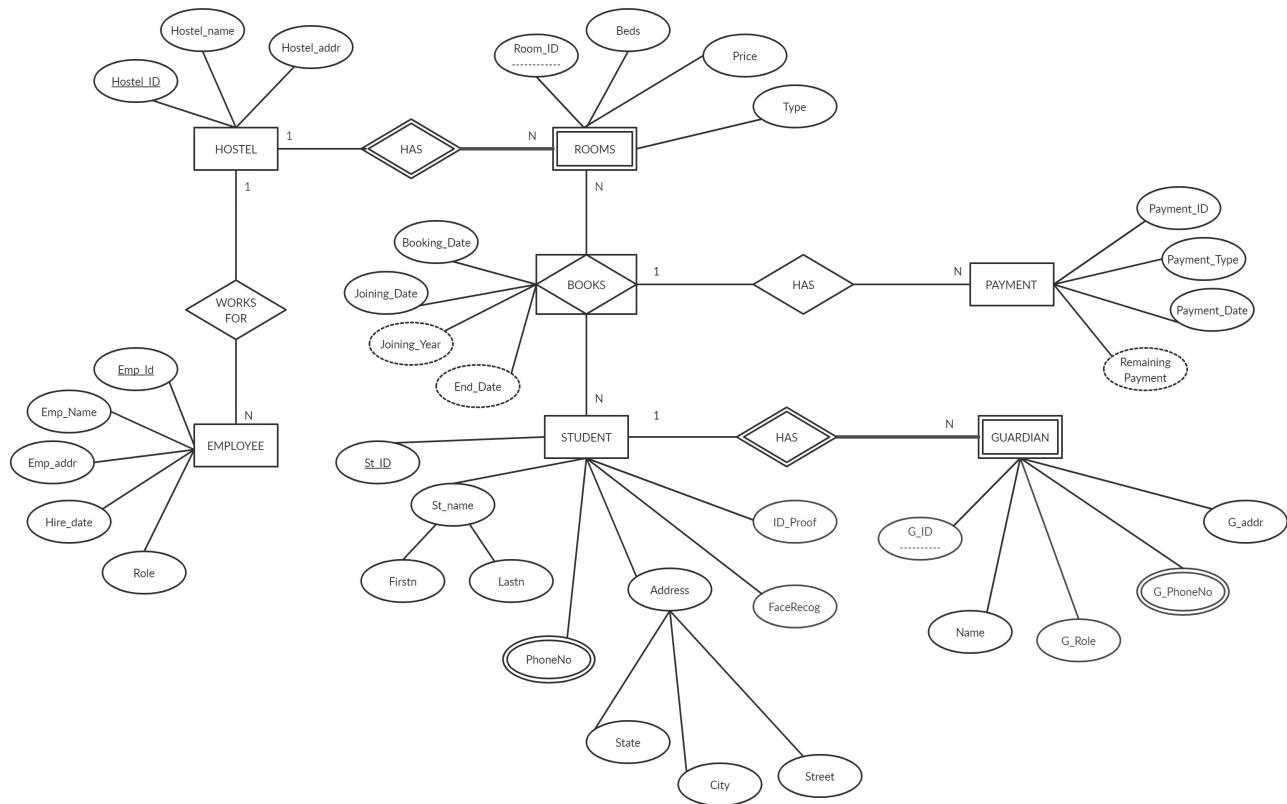
*MOTIVATION :-

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 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)

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)

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,payment_date)

