

HOSTEL MANAGEMENT SYSTEM

TEAM ORANGE

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1 INTRODUCTION...

It is Database application to both the students and the staff in charge of the registration and hostel management processes.

The porter and students' affairs officers will also be able to access and create student records with ease and regular update of student profile is enhanced when adopted.

It is appraised for efficiency,economics and time management

2 GOAL..

THE MAIN GOAL BEHIND THIS PROJECT IS TO EASE THE PROCEDURES FOR BOTH THE PARTIES, i.e, THE STUDENTS AND THOSE IN-CHARGE OF THE HOSTEL MANAGEMENT

3 REQUIREMENTS

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1. The system shall Generate the information for the students:-
It includes all the information , the hostel fee per semester, the room and the space allocated to them and the extra charges(if any).

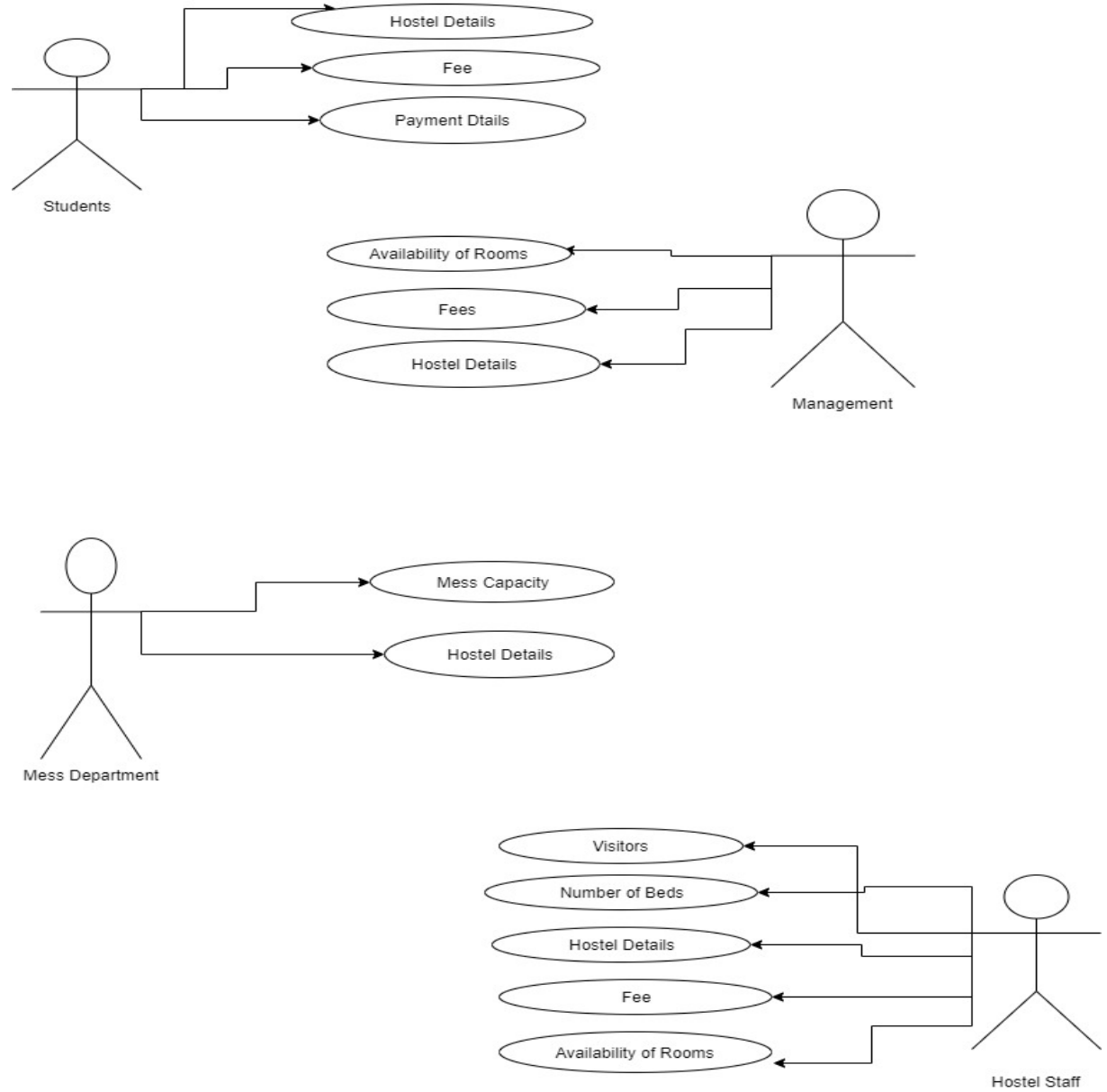
2.Generating the information to the management:- *It includes all the information of the hostels, the student information ,the number of students in each hostel and their payment records .*

3. The system shall Generate a reports on the availability of rooms and space in each hostel:- *It includes only one action that is ,checking the availability of rooms , space in each room so that management can allocate rooms to the new students accordingly*

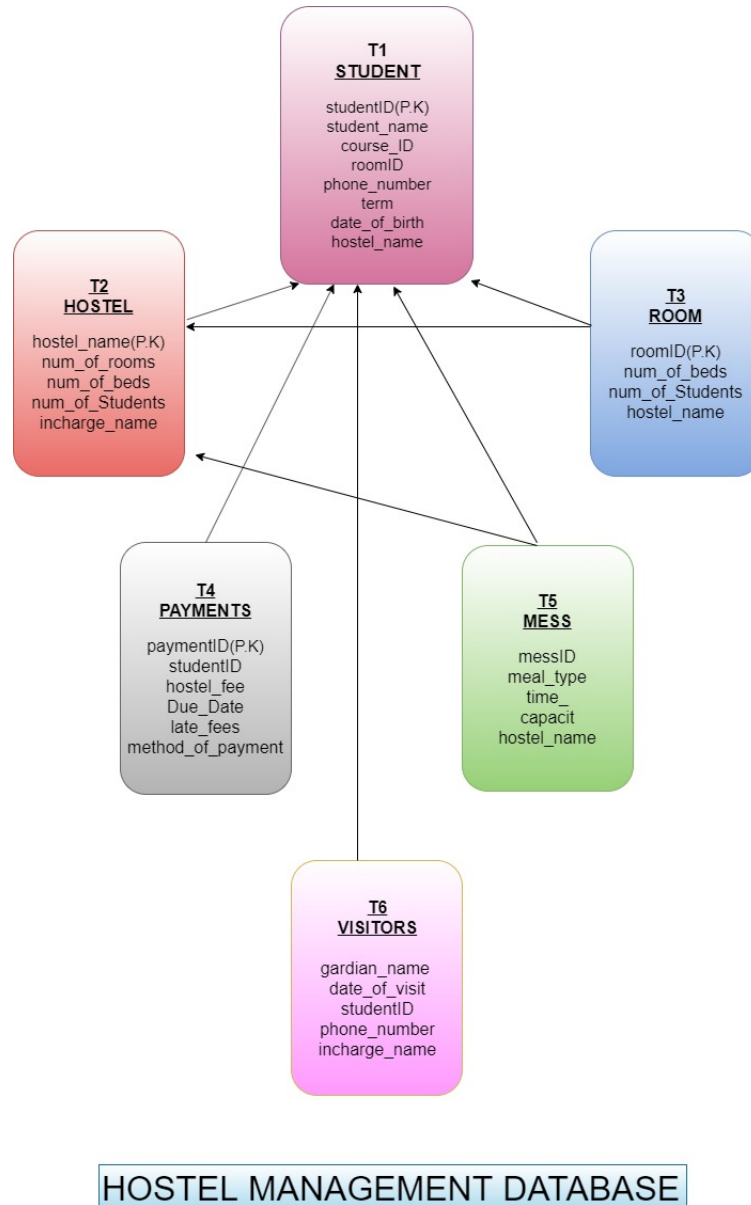
4. The system shall Generate reports for Mess Management:-
This helps in keeping a track of the mess in hostels,each hostel and it's mess is differentiated ,so this will help mess management to get information regarding number of students and their mess timings and they can prepare accordingly.

USE CASE		
ACTORS	GOALS	SCENARIO
STUDENTS	.Fee and payment info. Room ,space and mess allocated	Students can check their payments made and the fee dues.The room and the mess allocated to them through their student_ID.
MANAGEMENT	The number of students, fee records, availability, in-charge	All the details of hostels and students,checks their transactions and records .
MESS DEPARTMENT	number of students, Availability	check the number of students in each , prepare for each mess accordingly on time .
HOSTEL STAFF	students details, visitors details, hostel details	Checks the student details and update them regularly and checks in with the visitors and save all records in timely manner.

4 UML



5 TABLES AND COLUMNS



6 TRACABILITY MATRIX

Tracability matrix							
Tables	T1	T2	T3	T4	T5	T6	Test case
Requirements							
1. The system shall Generate the information for the students							TC 1, TC 2, TC 3,
2. Generating the information to the management							TC4, TC5, TC 6,TC7
3.The system shall Generate a reports on the availability of rooms and space in each hostel							TC 8, TC 9
4.The system shall Generate reports for Mess Management							TC 10, TC 11

7 Test cases

TC 1 : SELECT hostel_name,student_name,course_ID,roomID,phone_number,term,date_of_birth
FROM Student

WHERE studentID = ANY (SELECT studentID FROM Student WHERE
studentID = 'c0757705');

TC 2 : SELECT time_,messID,hostel_name,meal.type

From mess

WHERE hostel_name = ANY (SELECT hostel_name FROM mess WHERE
hostel_name = 'hostel_A');

TC 3 :SELECT paymentID,studentID,hostel_fee,late_fees,Due_Date

FROM payment

WHERE studentID = ANY (SELECT studentID FROM Student WHERE
studentID = 'c0757705');

TC 4 :SELECT Student.studentID,Student.student_name,Student.course_ID,Student.roomID,

Student.phone_number,Student.term,Student.date_of_birth,

Student.hostel_name,payment.paymentID,payment.Due_Date,payment.method_of_payment,

payment.hostel_fee,payment.late_fees from Student ,payment

where Student.studentID = payment.studentID

TC 5 :SELECT paymentID,studentID,hostel_fee,late_fees

FROM payment

WHERE Due_Date = ANY (SELECT Due_Date FROM payment WHERE
Due_Date = '01/11/2019');

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TC 6 :SELECT guardian_name,studentID,phone_number,incharge_name
FROM visitors
WHERE date_of_visit = ANY (SELECT date_of_visit FROM visitors WHERE
date_of_visit = '2019-08-12');
TC 7 :SELECT guardian_name,studentID,phone_number,incharge_name
FROM visitors
WHERE incharge_name = ANY (SELECT incharge_name FROM visitors
WHERE incharge_name = 'Nitika');
TC 8 :SELECT hostel.hostel_name, hostel.num_of_beds,hostel.num_of_Students,(num_of_beds-
num_of_Students) as space
from hostel;
TC 9 :SELECT room.roomID,room.num_of_beds,room.num_of_Students,(num_of_beds-
num_of_Students) as space_available
from room;
TC 10 : SELECT mess.messID,mess.capacity,mess.meal_type,mess.time_,
hostel.num_of_Students
FROM hostel,mess
where hostel.hostel_name = mess.hostel_name;
TC 11 :SELECT mess.capacity,hostel.num_of_Students,( mess.capacity-hostel.num_of_Students)
as available_space
FROM hostel,mess
where hostel.hostel_name = mess.hostel_name;

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8 ALL QUERY

(Including creating tables, and all the insert statements)

<https://github.com/761579/sql.git>