

PROJECT PROPOSAL
CSE 311L
DATABASE MANAGEMENT SYSTEM
SUMMER-2020



GROUP-N

Faculty: RAH1
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Introduction

We have made a user-friendly website to search for a room very quickly, by saving the necessary information of the user (student). Here the data of the students will be saved once they register, and hence, according to the requirements, the user can search for a room. This website connects students and rooms through an admin. Administrators can add/manage rooms, students and much more. The design is quite easy, and it will not be hard for the user to understand, use and navigate.

Achievements

- This project makes hostel-booking hassle free and overcomes the drawbacks of a manually maintained system.
- It provides security and ensures accuracy.
- The system makes the hostel booking process time-saving and free of human error.

Technology stacks :

1.MySQL & XAMP - We have made the "hostel" database and the tables in the database using MySQL.

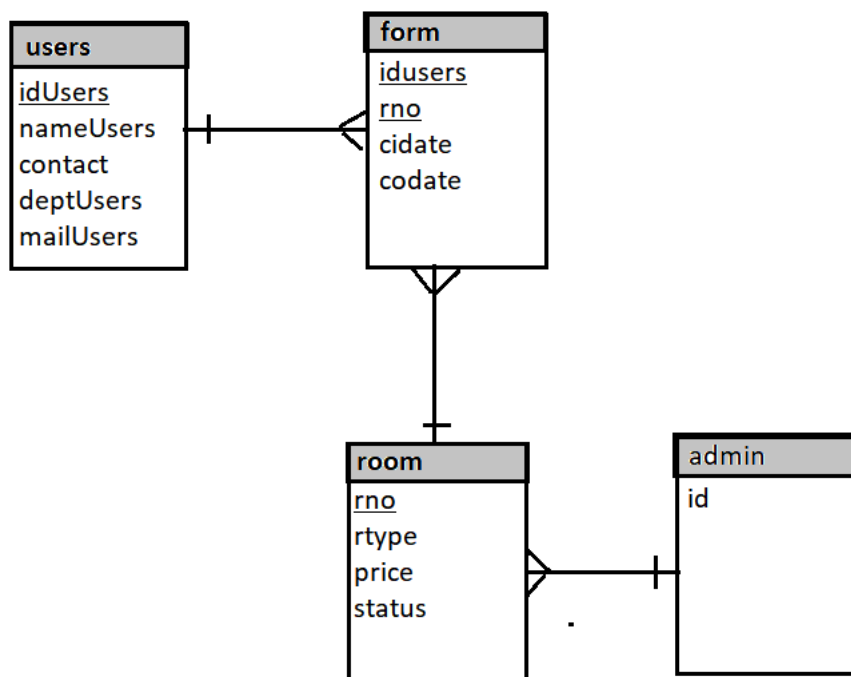
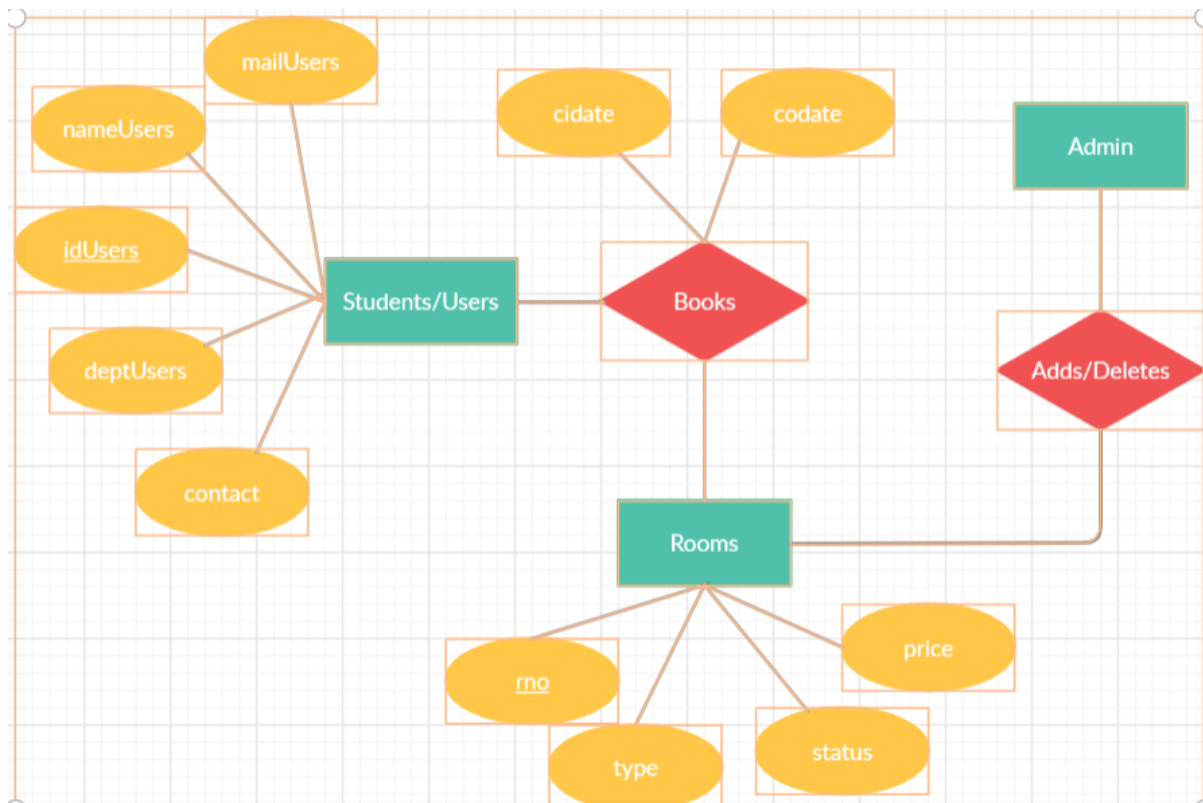
2.HTML- The frontend of the website is structured using HTML.

3.CSS - Styling elements have been added to the homepage using CSS.

4.PHP - We have used PHP in the backend so that our webpage connects with the database and functions smoothly.

5.MS Word - We have used MS word to make ER diagrams and UML.

ER Diagram & UML Diagram



Database normalization steps

I) We have normalized upto 3NF.

ii) Proof:

Users (idUsers, nameUsers, contact, deptUsers, mailUsers, pwdUsers)

Room (rno, price, type, status)

Admin1 (username, password)
Form (id, rno, cdate, code)

It is in 1st Normalization form as there is a primary key on which other attributes are dependent on and all the data is atomic.

It is in 2nd Normalization form because in all the Schemas there is no functional dependencies.

Finally, it is in 3rd Normalization form since there is no transitive dependency.

iii) We decided not to go further since it was not required. With 3 NF we have reduced the redundancy.

Work Distribution and Contribution

Pranta Deb Emon	Ratul Khandokar	Abdullahel Kafi
<ul style="list-style-type: none">- Wrote Project Proposal- Designed User Interface- Worked on room-booking feature on user-end- Worked on room detail checking on admin's end- Wrote all queries	<ul style="list-style-type: none">- Designed Admin Panel- Worked on room-adding feature on admin's end	<ul style="list-style-type: none">- Worked on deleting and vacating rooms from admin's end.- Wrote Project Report

References

1. <https://www.w3schools.com/php/DEFAULT.asp>
2. <https://www.w3schools.com/html/>
3. <https://www.w3schools.com/css/>
4. <https://www.w3schools.com/sql/>