Hostel Managment System

PRESENTED BY,

- 1. Vinod Kumar .L 950019104050
- 2. Kaikondar .S 950019104019
- 3. Basvan .V 950019104009
- 4. Sathees Kumar.K 950019104302

Under the guidance of: **Dr.S.Sabena AP/CSE**

ABSTRACT

- → HOSTEL MANAGEMENT SYSTEM is proposed to reduce the problems faced by the traditional systems.
- → The proposed system is designed to limit the human works and make hostel allocation much easier for students and hostel administrators.
- → This system includes the following modules: Student Registration, Leave Letter Management, Mess billing, Room Management.
- ◆All the events and activities that take place in the college is updated regularly by the admin.

OBJECTIVE

To Develop a Web app for Hostel Management System which can automate all the manual operations of the hostel.

TOOLS

Language:

Frontend: Html, CSS, JavaScript, Bootstrap.

Backend: Python/PHP, MySQL.

IDE: VSCodium, Neovim.

REQUIREMENT SPECIFICATIONS

Hardware Requirements:

Processor: i3 7th generation.

RAM : 4.00GB.

Hard Disk : 256 GB & Above.

Monitor.

Mouse.

Keyboard.

Software Requirements:

Operating System: Windows 10, Ubuntu.

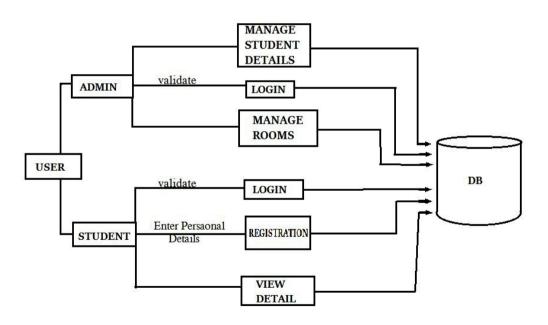
Language : HTML, CSS, PHP, JavaScript.

Database : MySQL.

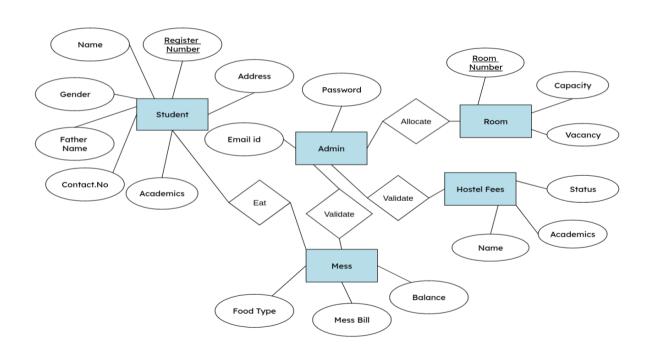
Server : Xampp.

ARCHITECTURAL DESIGN FOR THE PROPOSED SYSTEM

Architecture Diagram:



Entity Relationship Diagram:



PROPOSED WORK

- → The proposed system is the computerized version of existing system.
- → This system automates all the activities occurring in the hostel.
- → There is no redundancy of data.
- ◆ The proposed system will easily handle all the data and the work done by the existing system.
- → This system is easy to maintain records in the hostel.
- ◆ Therefore the proposed system eliminates the drawbacks of the traditional system to a great extent and it provides tight security to data.

LIST OF MODULES

- **→** Administration Module.
- → Student Registration Module.
- → Room Management Module.
- → Mess Bill Management Module.
- → Leave Letter Management Module.

MODULES IN DETAILS

Administration Module:

- → Administrator has to maintain data of every student profile in the database.
- → Only the authorized user is allowed to access the information to the system by providing username and password.
- → The administrator can view and update their profile to make any changes.
- → They can also change their password which requires the old password.
- → He/She can allot different students to the different hostels.
- → This module determines the status of the fees payment. The administrator can edit the details of the students & modify student records.

Student Registration Module

- → This module is used to store students records. This module provides a form to the students which can be filled by them and submitted to the hostel authorities.
- → The student registration form consists of details of the students such as registration number, name, date of birth,address, gender, phone number, year, class, room no,guardian name and phone number.
- → Here the details are entered and updated. These details are verified by hostel authorities before allotting the students to the respective hostel rooms.

Room Mangement Module

- → Room allotment is an essential part of hostel management system.
- → Students can be provided hostel accommodation based on the availability of rooms. Manual allocation of rooms can be very difficult.
- → Therefore the proposed system makes this task easier and error free.
- ◆ In this module, the room number is allocated to students in the hostel and the details of the each student are maintained and updated regularly.

Mess Bill Mangement Module

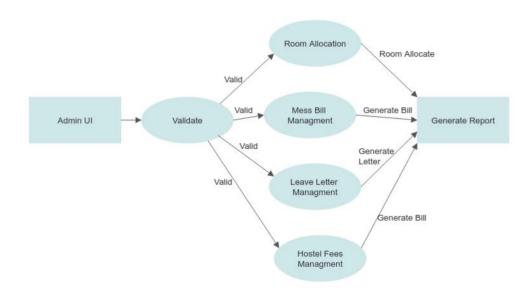
- ◆ The proposed system helps the user to access all the functionalities of the mess in hostel.
- → In this module, the mess item expenditure for each student in the hostel is calculated for each month and the mess bill for each student in calculated and displayed.
- → It keeps tracks of all transactions related to mess. The administrator checks bills if there are bills which are not paid by student, then he/she can take an appropriate action.
- → This will help the management to handle mess bill generation, payment collections very easily.

SYSTEM DESIGN Data Flow Diagram

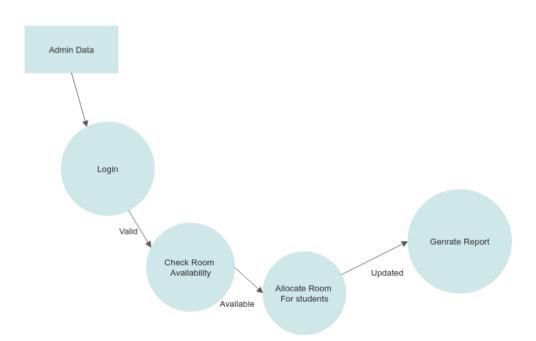
Level 0: Interaction Between User and System.



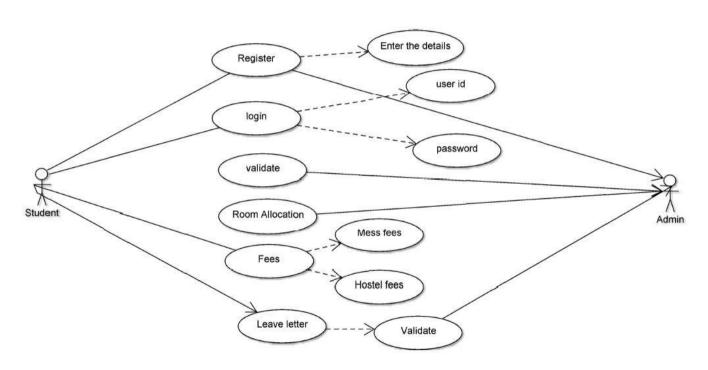
Level 1: Modules of Hostel Management System



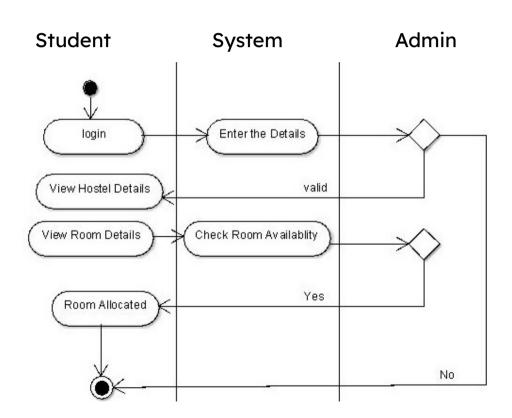
Level 2: Room Management Module



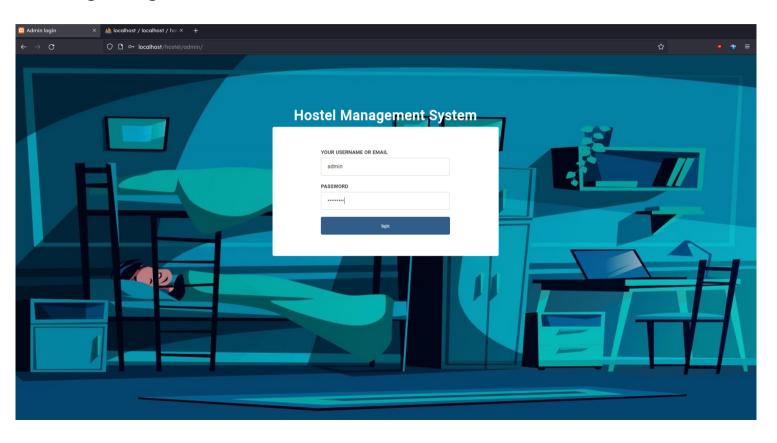
Use Case Diagram:



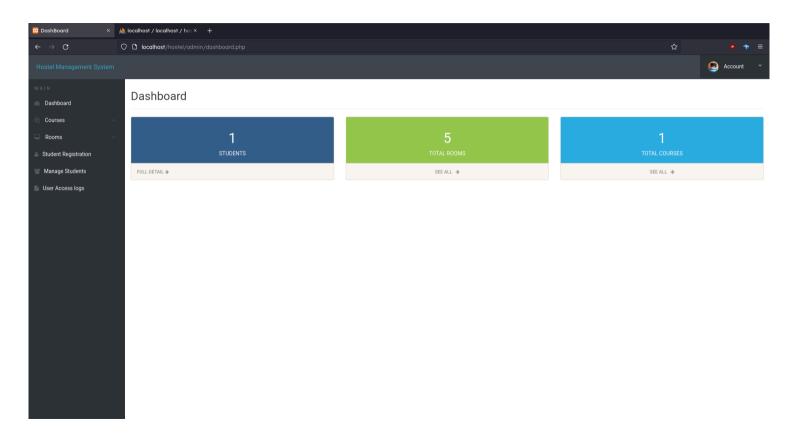
Activity Diagram:



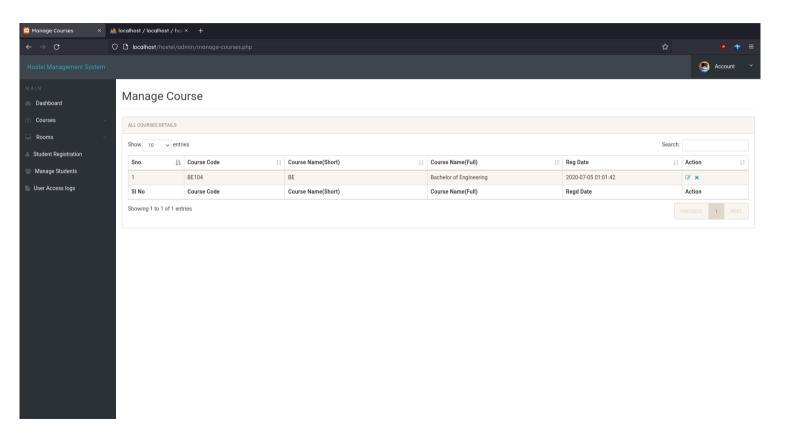
Admin Login Page:



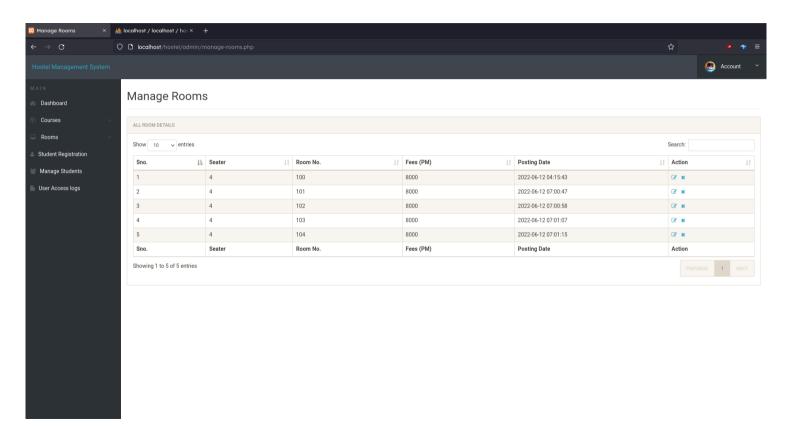
Admin Dashboard:



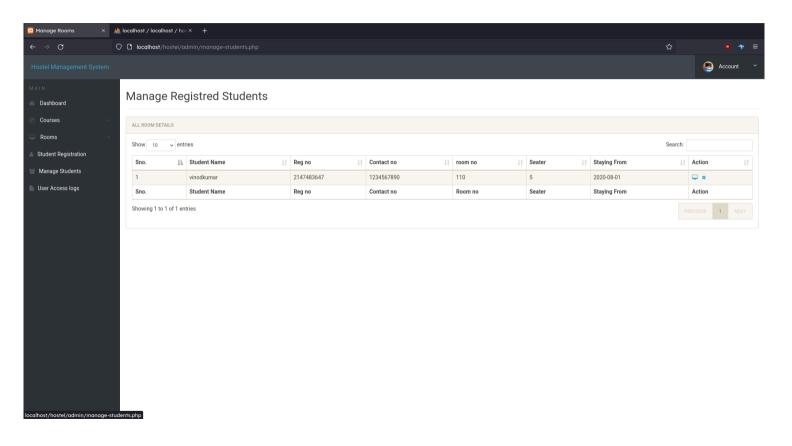
Admin Manage Course:



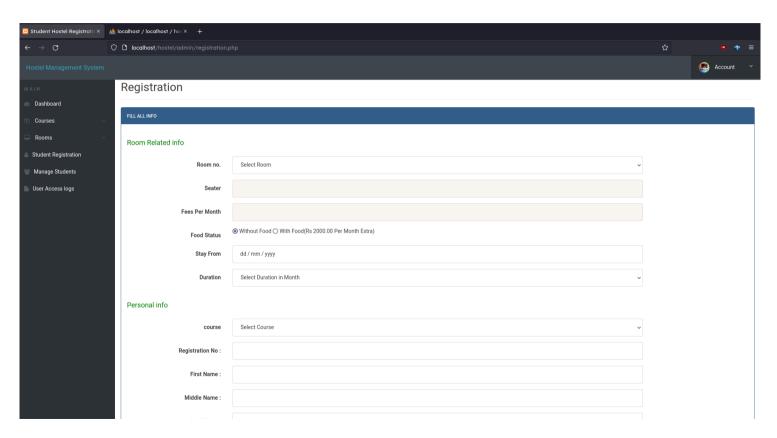
Admin Manage Room:



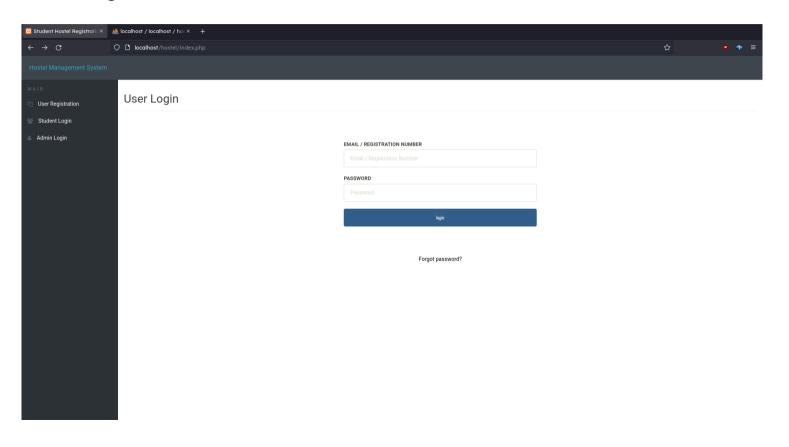
Admin Manage Student:



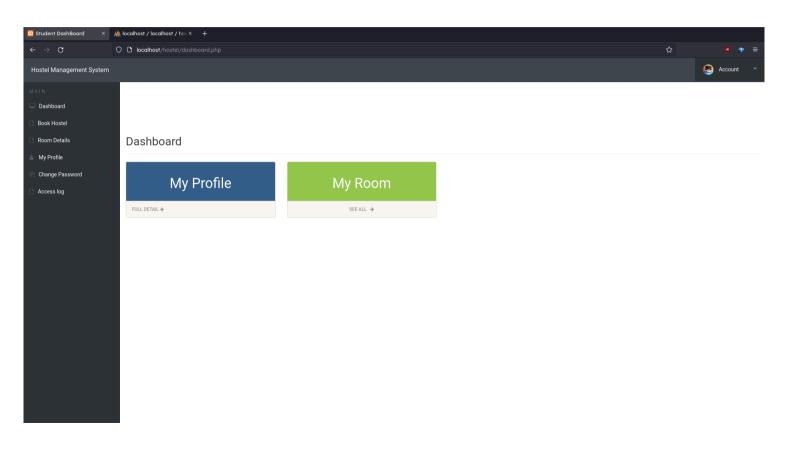
Admin Register Student:



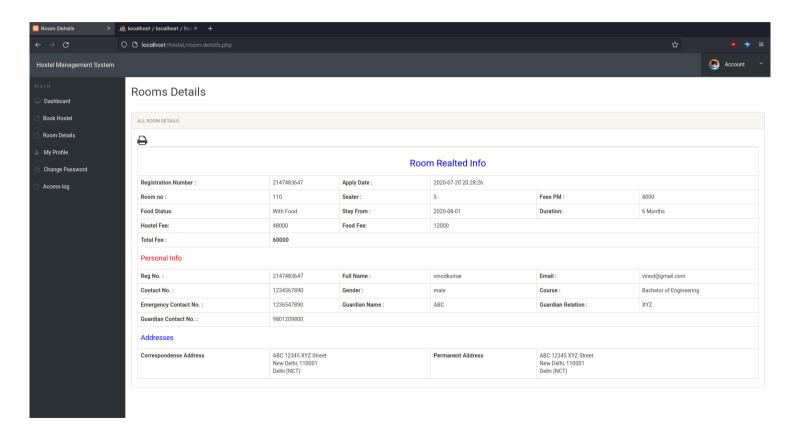
Student Login:



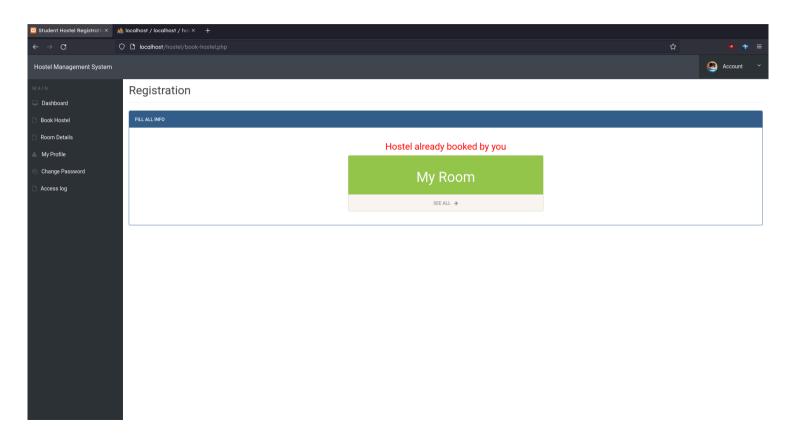
Student Dashboard:



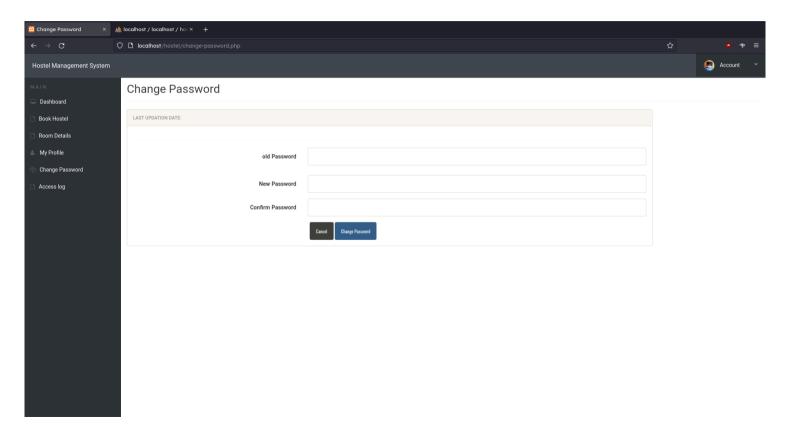
Student Room Details:



Student Book Hostel:



Student Change Password:



Conclusion

Hostel management system is designed to manage all hostel activities like hostel admissions, fees, room, mess allotment, hostel stores & generates related reports for smooth transactions. It is also used to manage monthly mess bill calculation, students details, room allotment.

Reference

For Languages: https://www.w3schools.com/