Hostel Managment System

Mini Project

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.

<u>IDE</u>: VSCodium,Neovim.

REQUIREMENT SPECIFICATIONS

Hardware Requirements:
 Processor : i3 7th generation.
 RAM : 4.00GB.
 Hard Disk : 256 GB & Above.
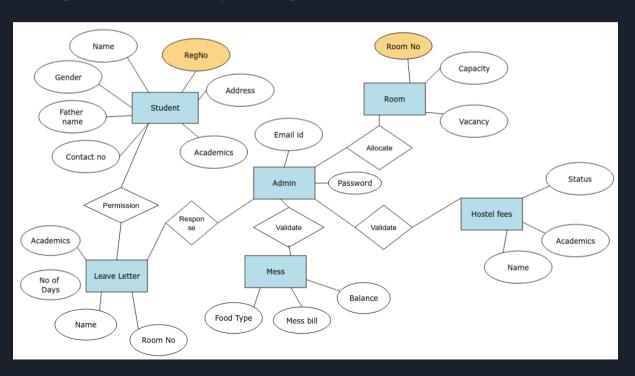 Monitor.
 Mouse.
 Keyboard.

Software Requirements:
 Operating System : Windows 10 , Ubuntu.
 Language : HTML, CSS, PHP, JavaScript.
 Database : MySQL.
 Server : Xampp.

ARCHITECTURAL DESIGN FOR THE PROPOSED SYSTEM

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

<u>Administration Module:</u>

✦ 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.
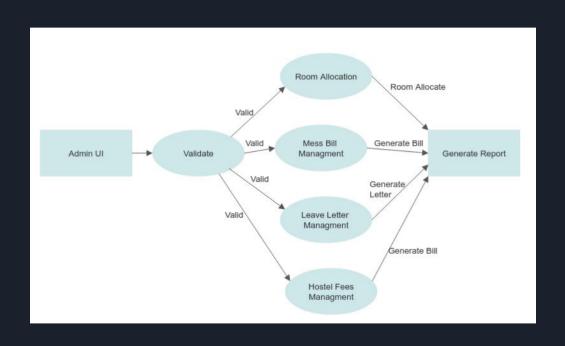
Mess Bill Mangement Module

✦ 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
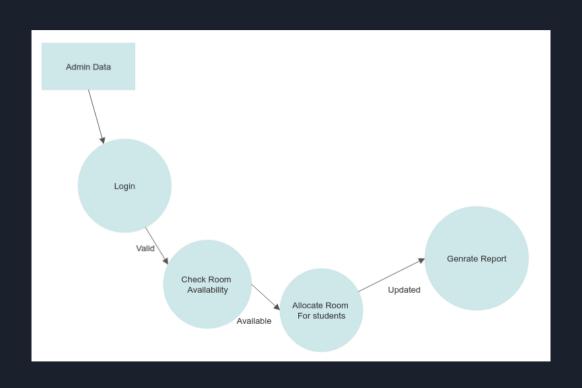
Level 0 : Interaction Between User and System.
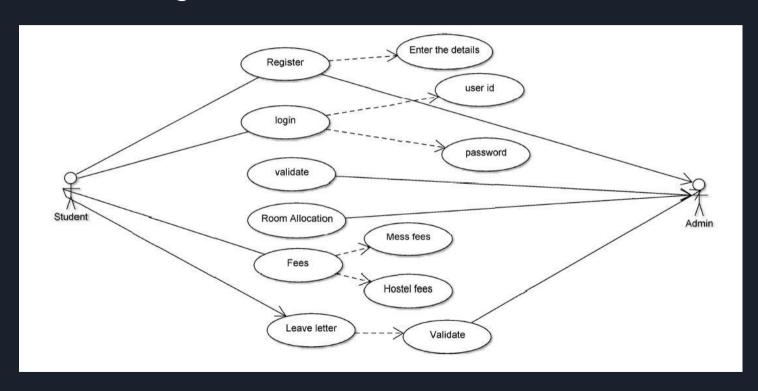
Level 1: Modules of Hostel Management System
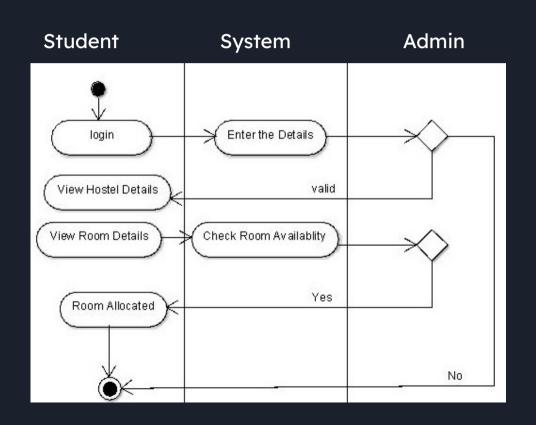
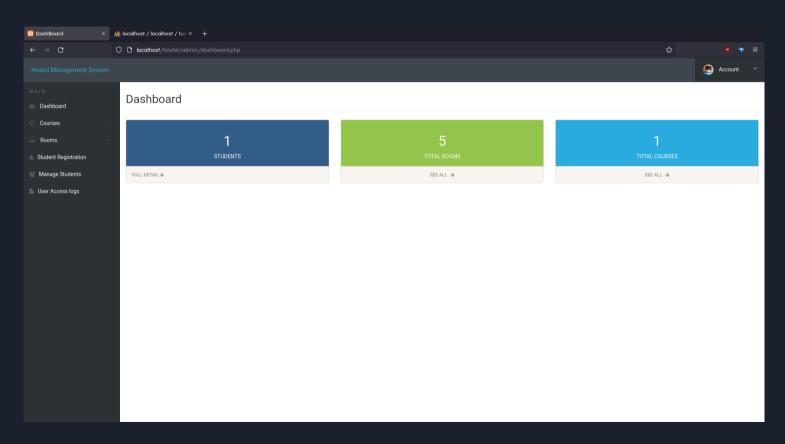# Level 2 : Room Management Module
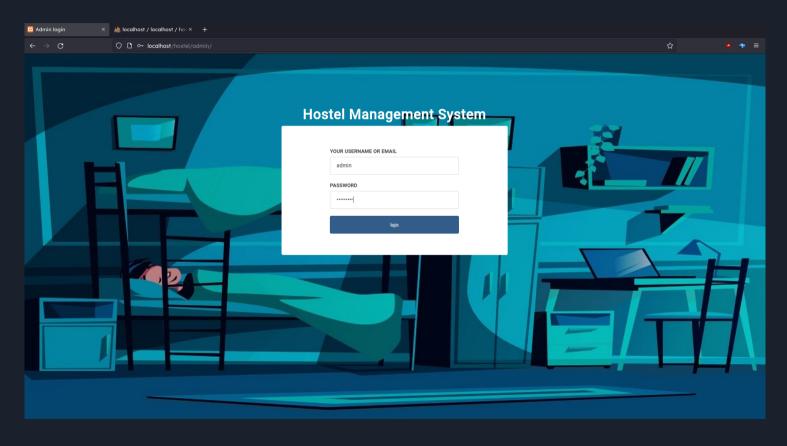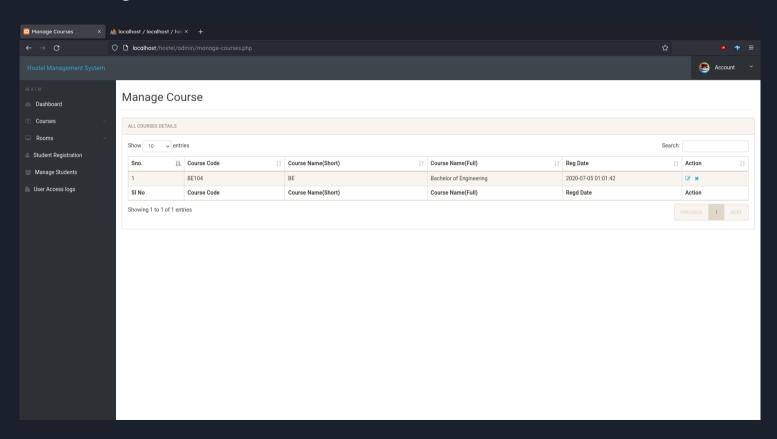
Use Case Diagram:

Activity Diagram:

100% Completion :

Admin Login Page:

100% Completion :

Admin Dashboard:

100% Completion :

Admin Manage Course:

100% Completion :

Admin Manage Room:

100% Completion :
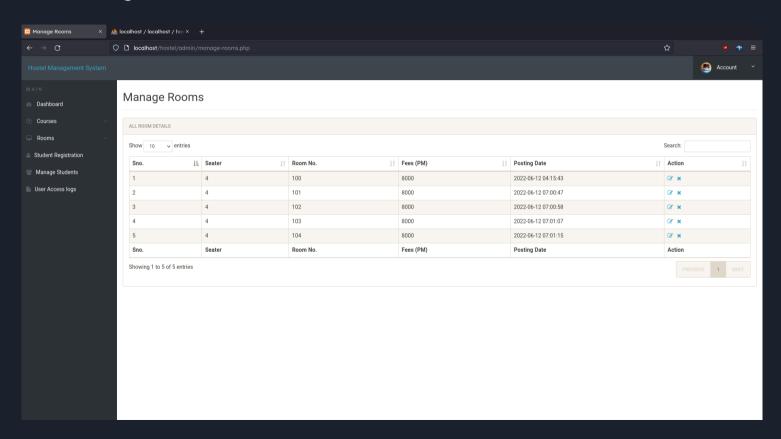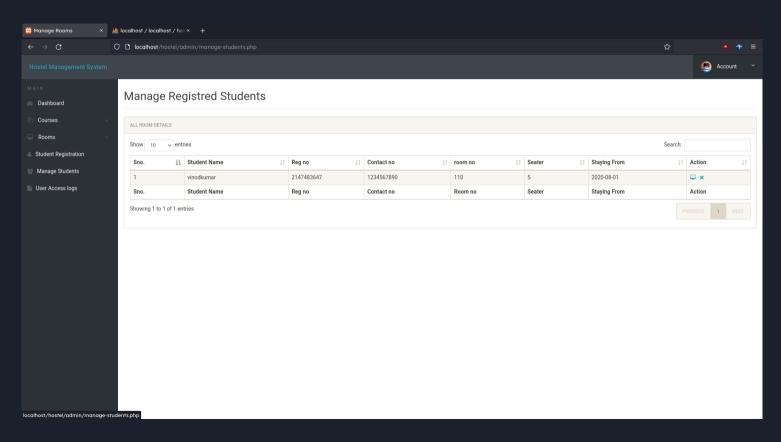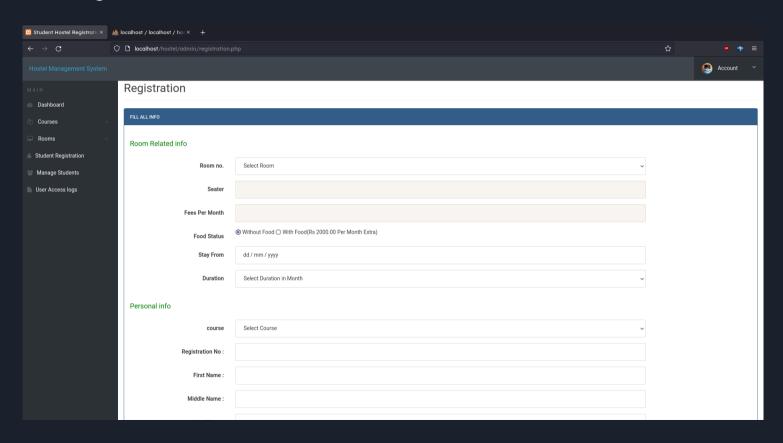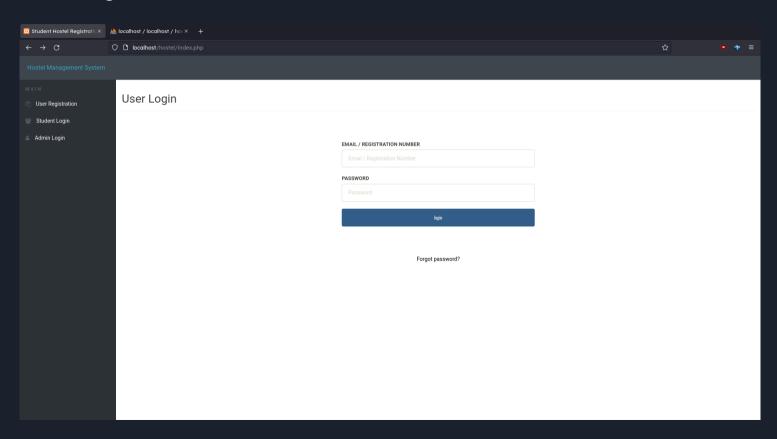
Admin Manage Student:

100% Completion :

Admin Register Student:

100% Completion :

Student Login:

100% Completion :

Student Dashboard:

100% Completion :
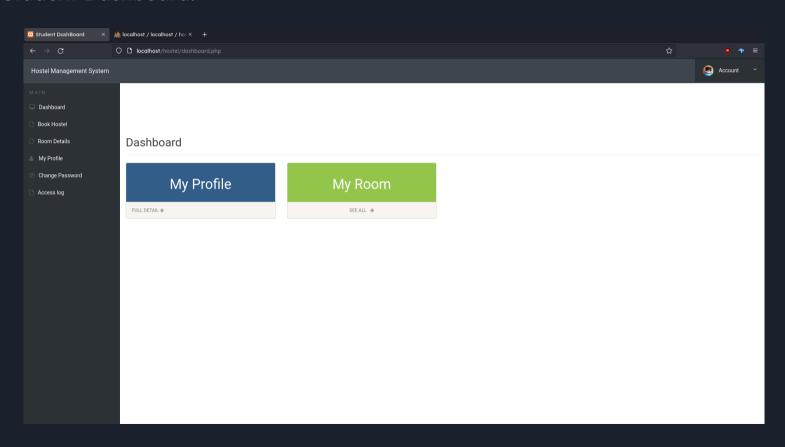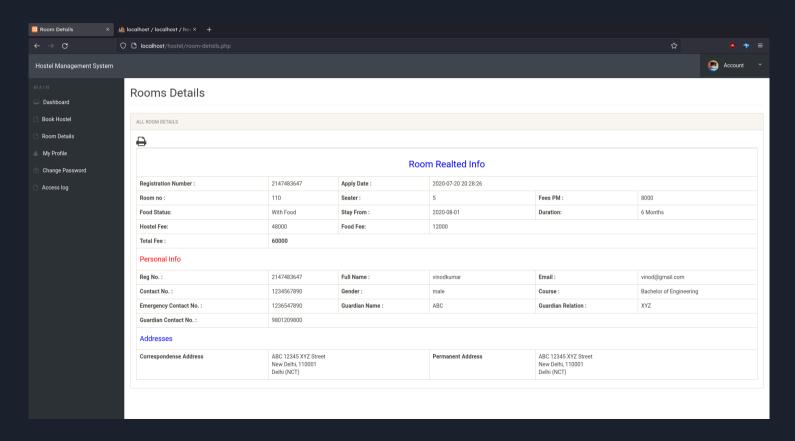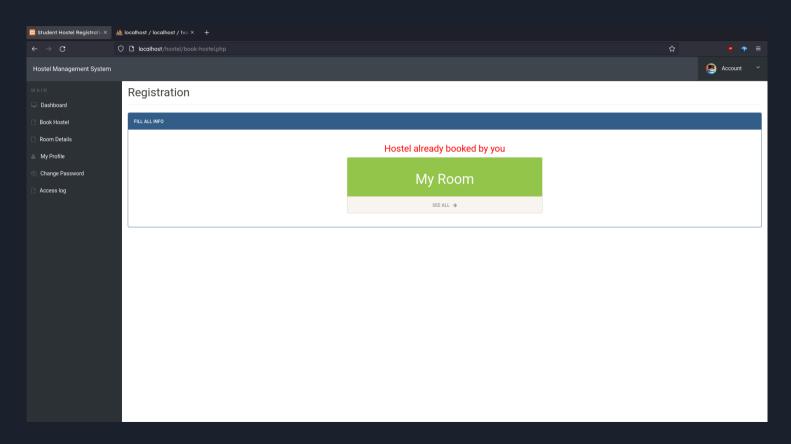
Student Room Details:

100% Completion :
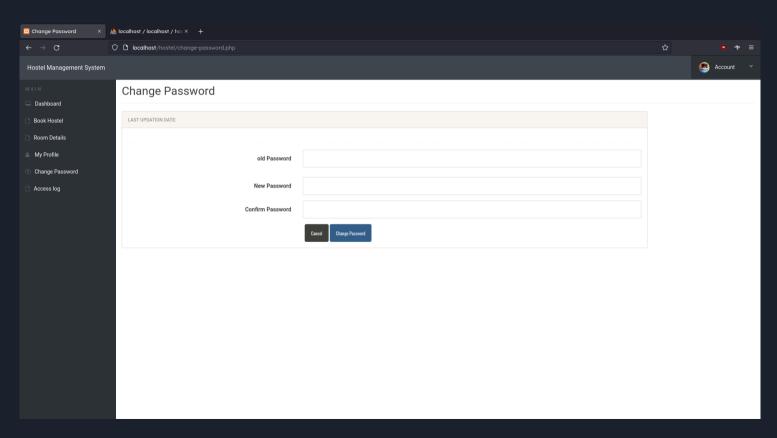
Student Book Hostel:

100% Completion :

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/