Hostel Management System

Date: 29/08/2022
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1. Project Overview?

A hostel management system was designed to provide a computerized process that is stress free, reliable and quick through the use of Python programming language and PostgreSQL database application to both the students and the staff in charge of the registration and hostel management processes.HTML, CSS and Bootstrap would be at the front-end and provide the graphical user interface that relates with the user, while the PostgreSQL database will be at the back-end to handle the data storage process. As the name specifies "HOSTEL MANAGEMENT SYSTEM" is a software developed for managing various activities in the hostel. For the past few year the number of educational institutions are increasing rapidly. Thereby the number of hostels are also increasing for the accommodation of the students studying in this institution. And hence there is a lot of strain on the person who are running the hostel. This particular project deals with the problems on managing a hostel and avoids the problems which occur when carried manually.

2. To what extend the system is proposed for?

- A hostel management system is designed to provide a computerized process for all the activities in a hostel. It helps hostel wardens to maintain the database of students and other hostel inmates.

- This system completely automates all the hostel activities. The best way to maintain, organize, and handle all the details of the hostel inmates systematically is to implement a hostel management system software.

- Hostel management system is designed to manage all hostel activities like hostel admissions, room allotment to the students, Hostel and Mess fee

payment, online out pass providing, Manuel allocation of monthly tasks for staffs, Sends Alert messages and Notifications to parents and students.

- In the proposed system, admin can register wardens, can view hostel inmate details, room allotment details.

- Wardens can assign sub wardens to each floor, send alert messages to students and parents, manage incoming and outgoing students, can set remainders.

- Wardens are sub divided into sub wardens and allocate them to each floor. Warden is the one who register and allocate sub wardens to each floor. Where sub wardens does the room allocation for hostel inmates in the particular floor.

- Students can apply for out pass beforehand and can pay monthly mess fee and yearly hostel rent. They can post their complaints in the complaint box and an emergency call redirect to authorities is also included. Students can also view their allotted room status.

- Guests can login into the system and can book rooms and vacate when ever they needed.

3. **Specify the Viewers/Public which is to be involved in the System?**

   The General public are involved in the system

4. **List the Modules included in your System?**

   In this Hostel Management system, there are mainly five users
   - Admin
   - Warden
   - Student
   - Parent (Guest included)

Admin: -

- Register/Login
- View – Students, Employees, Parents and Wardens
- Invoice generation and downloading
- Yearly Reports
- Dashboard – To display notifications
- Register Wardens and floors and assigns sub wardens to each floor.
- Logout

Wardens: -

- Register/Login
- Hostel Admissions (Add/View/Update)
- Manage Incoming and Outgoing student database
- Out Pass approval online
- Complaint Message display box
- Send SMS messages to parents when students checked IN and OUT
- Mess cut automatic calculator
- Remainder setting calendar
- Logout

Sub Warden(for each floor):-

- Register/Login
- Room allotments to students based on each floor
- Notifications to particular students allocated to each sub wardens/each floor
- Logout

Student: -

- Register
- Login
- Leave Apply

- Room allotment status
- Out Pass Apply + status viewing
- Complaint Box
- Emergency call redirect to wardens
- Logout

Guest:-
- Register
- Login
- Room booking for shorter stay
- Logout

Accounts:-
- Login
- Hostel fee and mess fee payment
- Logout

5. Identify the users in your project?

The users are Warden, Sub wardens, Students and Guests

6. Who owns the system?

The Administrator owns the Hostel Management System

7. System is related to which firm/industry/organization?

The system is related to organization. Organization in public library management system engaged in the librarian,public user and book management in the libraray

8. Details of person that you have contacted for data collection?

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9. **Questionnaire to collect details about the project?** (Minimum 10 questions, include descriptive answers, attach additional docs (eg. Bill receipts, certificate models), if any?)

1. **Are you a computer literate?**

    Yes.

2. **Are you using any hostel management system**

    Currently using the college integrated system

3. **What is the biggest problem faced using current system?**

    There is no dedicated system for hostel management system. Ledgers are still in use. Not everything is digitalized.

4. **Do you think an HMS as described above will improve the current system?**

    Up to some extend it will be useful, as it acts as an all in one system.

5. **How was guest details are collecting?**

    Guest management is paper-based. Particular ledgers are kept in order to collect guest details.

6. **What basic functionalities would make you use the system mor**

It depends on the type of additional functionalities included in the system. It would be great if, everything is digitalized.

7. **Do you feel that usability and ease of use should be significant characteristics of the new system?**

Agree.

8. **Does there any difficulties for the inmates because of the paper-based system?**

Some inmates have reported some compliant regarding this. Reason mentioned was, out pass providing is offline and it consumes so much time.

9. **Do you feel that the system must have in order to ensure acceptance of the new system?**

The system should be consistent, Easy user interface, Proper working of the functionalities listed, Yearly report generation, Data Backup.

10. **Is there any additional apart from the above is there in the existing system?**

No

11. **Is there any module for staff in the existing system?**

There is no such module for staff. Staff management is completely offline**.**

12. **Any additional features you would think will be useful for this system?**

I think this system covers almost all required functionalities for a hostel management system so, no more.