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# Hostel Management System Using Javascript, MySQL and J query

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**Abstract:** The “Hostel Management System” is a web application developed for managing various activities in the hostel. This project is expected to limit human works and make hostel allocation much easier for student and hostel administrators with the help of the web application to hostel, naturally select the student from the waiting list, complaint registration, and so on. Student will get endorsement notice in their mails. It advises guardians with respect to their wards and their presence in hostel and their curricular will be informed to their parents using this model just in one touch. In last, few years the number of educational establishments is expanding quickly. In this way, the quantity of hostels is additionally expanding for the settlement of the student considering in this college. Also, henceforth there is a considerable measure of strain on the individual who are running the hostel and websites are not generally utilized as a part of this specific circumstance. This specific project manages the issues on dealing with a hostel and helps to deal from the issues which happen when conveyed manually. This project deals with the problems of managing various activities of hostel and avoids the problems which occurs when carried manually. This web application is useful to avoid manual data entry and is easy to access the data of the students staying in hostel. This application is provided with user friendly GUI. The main objective of the project is to reduce the work of the rectors and maintaining the data of the students more easily and securely. This web application manages the hostel activities like room booking, Information of the hostel, rules and regulation, complaints, contact details for both the boys and girls hostel.

## I. INTRODUCTION

There has been a cosmic increment in the quantity of educational sector particularly over the most recent four decades everywhere throughout the world. This improvement has brought education to the doorstep of individuals. Therefore, it has expanded information and helped create a population of edified residents who can without much of a stretch comply with the principles of civilized society. A large portion of the recently established educational institutions, are utilizing the old ordinary procedures for dealing with all the record keeping and especially for managing hostel facilities. This old method of managing records hence have an adverse effect on the efficiency of the institution. The proposed framework overcomes the disadvantages of traditional techniques for hostel administration; it is easier to use, graphical-UI oriented. The Hostel Management System is an online site developed for managing different activities in the hostel. It is very easy to use with a user-friendly GUI to automate, arrange and handle all the procedures of managing hostel offices. This is an online site which is developed using wix website editor which uses HTML and CSS for front end and PHP & JavaScript for backend. The site will be a great relief to the workers. It is very helpful especially in large institutional organizations with a huge number of hostels.

### 1.1 PROBLEM STATEMENT

We have 2 hostels in the college, which comprise of one boys hostel, one girls hostel. Every one of these hostels are handled through manual operation by the hostel office. The Registration frame confirmation to the various information processing are done physically. In this way, there are a great deal of redundancies which can be effectively avoided. Subsequently there is a lot of strain on the individual who are running the hostel and web applications or software's are

not generally utilized as a part of this specific circumstance. This project manages the issues on dealing with a hostel and stays away from the issues which happen when handled physically. Designing a computerized system with the user-friendly GUI, and efficient performance by identifying the drawbacks of the existing system will help to overcome the problems of existing system.

## **1.2 OBJECTIVES**

Major objective of the proposed system is to help automating basic hostel management activities. The basic hostel management activities comprise of activities like: Admin can send the approval notice to the students through mail system, Insert the student details and other records, Students can enroll their complaints in complaints page, Mail notifications to the students and providing simultaneous access to the site.

## **1.2 SCOPE**

The purpose of this Hostel Management System is to ease hostel management and to create a convenient and easy-to-use application for students. The system is based on a relational database with room allotment, review, and complaint features. Students will be able to choose hostel rooms according to their convenience and pay for the same. Students will be able to file a complaint regarding any of the facilities and if the complaint could not be resolved within the specified time, it would be sent to the higher authorities. After booking a room mail will be sent to the student about the bookings. The GUI of the project is user friendly as it can be easy to handle. This website is based on modular architecture. This modularity of the architecture will allow us to replace or add modules in the future.

## **II. EXISTING SYSTEM**

Current situation of hostel administration framework is all the work is done physically. Various information or record copies of the hostel and student data are kept in various divisions. Room is distributed by the room necessities and as per requested by the student. Hostel offices and other data are altogether kept in a booklet or is shown on notice board. Student's data student registration, room status, complaints.

### **2.1 LIMITATIONS OF EXISTING SYSTEM**

The current framework makes the data retrieval very difficult because of huge volume of document. Data security and Integration are major concern in current system. Current framework is powerless against natural disasters which causes loss of data. The current framework does not have a PC based database for storing of documents. The entire process is tedious and a waste of human and material assets. Record management and searching is a very difficult job.

### **2.2 PROPOSED SYSTEM**

To overcome all the limitations of the existing system, a framework called hostel management is proposed which is a web application. This framework automates all the activities occurring in the hostel. The proposed system provides data security and integration which is a major drawback in the current scenario and also provides smooth operation in retrieving data in a more systematic way hence saving a lot of human effort and time. The proposed system being a website runs on a server with robust database with eliminates the problem of data redundancy and helps to store information of students and other hence ensures data integrity and interconnects all those students and management process involved. This framework allows students and rectors to manage various activities in a computerized manner.

### 2.3 DFD of Hostel Management System

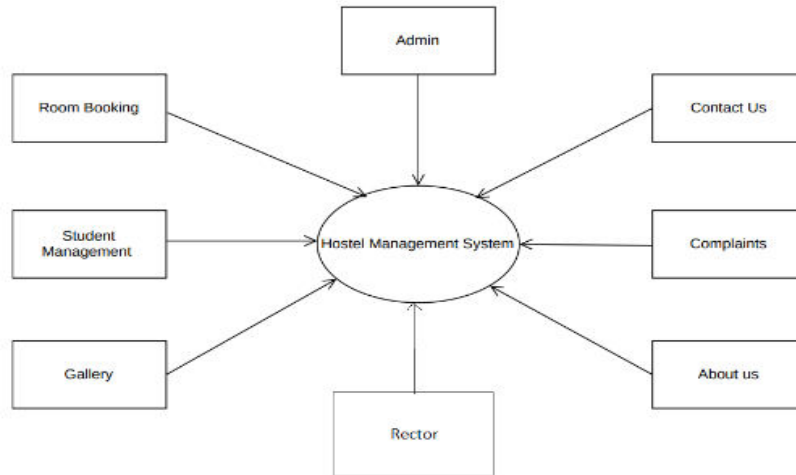


Fig.2.3 DFD

### 2.4 System Modules

The proposed framework consists of three different modules:

- Administrator
- Employee/Rector
- Student

#### 2.4.1 Administrator Module

This module consists of following functionalities:

- **Login to administrator module:** Only authorized user is allowed to access the information to the website once he/she verifies themselves by providing user account and password.
- **Bookings:** He can view or add or delete or confirm booking through email.
- **Contact us:** He can view or delete contacts.
- **Complaints:** He can accept or reject complaints by sending an auto email.

#### 2.4.2 Rector Module

This module will contain the following functionalities:

- **Login to system module:** Only rector with username and password generated by administrator can access this website.
- **Bookings:** He can view or add or confirm booking through email.
- **Contact us:** He can view contacts and can send an email.
- **Complaints:** He can accept or reject complaints by sending an auto email.

#### 2.4.3 Student Module

This module will contain the following functionalities:

- **Home:**User can view home page,
- **Booking:**User can book a room by providing required details.
- **About us:**User can view about us page.
- **Contact us:**User can contact hostel by providing required information.
- **Complaints:**Students can enroll for complaint.

### 2.5 Use Case Diagrams

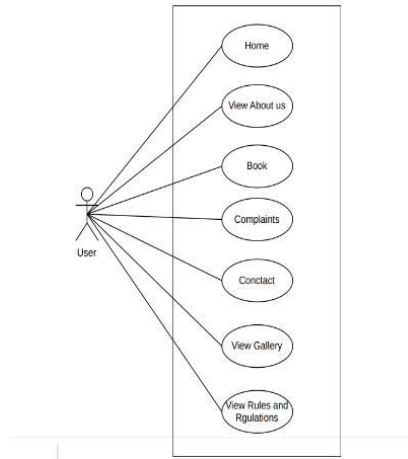


Fig 2.5:(a) User use case Diagram.

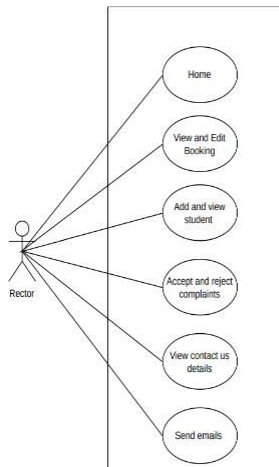


Fig 2.5(b): Rector Use Case Diagram

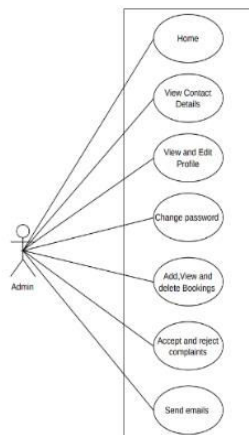


Fig 2.5(c):Admin Use Case Diagram

## 2.6 Benefits of the Proposed System

- Automates all the activities involved in maintaining hostel administrations.
- The utilization of database will help in simple retrieval of data and control information concurrency.
- Provides data integration and privacy through authentication of each user.
- It is cost effective as information's are stored online and can be accessed remotely hence eliminating record keepings.
- Mail notification for every events, notice and approval status of various activities complaints, etc.

## III.CONCLUSION

This Hostel Management System website is intended for individuals who need to handle different activities in the hostel. As from last few years numbers of colleges/universities are increasing and so is students number which require an automated system which can reduce human effort and make administration easy and in more technological way. Identification of the drawbacks of the existing system leads to the designing of computerized system that will be compatible to the existing system with the system which is more user friendly and more GUI oriented.

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