**InSight 2017**

**Department : Hostel Office**

**Problem Title : Hostel room allocation**

**Problem Code : PS02**

**Problem Description :**

With the large number of hostel applications received every year, the allocation of rooms to each applicant is a very tedious task. A software solution which would enable the hostel department with the allocation of rooms which would also make it easy for the students (they don’t have to stand in long queues anymore for allocation) would benefit both the management and the students. The priority number concept must be followed. Priority number is given on the basis of first come first serve basis on the mode of payment.

This system must be able to generate report of occupants of each hostel and the rooms which are unallocated after allocation.

Note: The solutions can include web app, stand-alone windows systems, android apps etc.

**Proposed solution:**

For the above problem we are developing a web based software which will help a student to book a room in hostel according to their prioritynumber. After paying the hostel fees,thecollege will provide the priority numberto each student which will help him/her for booking the room through our website. The website will have login page. In the login page students can login by entering the details. After entering the details according to the student Priority number the room will be allotted. Students whose priority number is less they can have the first chance to get the room. If the student with lowest Priority is trying to get the desired room then our system is going to give the proper notification.

If any other students, who have not paid the hostel fees, can still log into the website-Guest login to view the status of the room booked and they can see the name, USN and priority of the students who has/have booked a particular room so that it is convenient while allocating the room. However they wouldn’t be in the status of booking the room if maximum of three students have booked that particular room. The option of guest login is provided, so that the students can get the information about their desired room according to the priority number.

Once the students have paid the hostel fees, he/she can book a room via Priority Number provided by the college. A student of present year will see the map of next year’s hostel to book the room they desire (particular floor should be chosen and the status of room on that corresponding floor will be displayed). Once the student books the room, student’s name and USN will be marked for that particular room.

**Technology Stack:**

* HTML and CSS
* PHP
* JAVASCRIPT
* SQL to store the Student details(Backend)

**Use Case:**

STUDENT

ADMIN

OTHERS

**Team Members details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Name** | **USN** | **Email id** | **Phone no.** |
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