**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 webapps, stand-alone windows systems, android apps etc.

**Proposed solution:**

This problem looks complicated but it can be simplified if we look at it in different way. A student need a room in a hostel , he/she is sure about his/her room mates . Half of the problem is solved already we just have to give a platform for a student to click on room( a layout will be provided) and enter the details of other two students who are going to reside in same room. And that is it. The warden of the particular block will be able to view the status and all other required details.

Authentication is done in three stages. 1. when students first try to login. 2. When they try to select the hostel block(ex-third year and fourth year girls can select only akkamahadevi hostel). 3.when they try to select room( should enter hostel fee receipt number).

Several other things like password related , marking the booked rooms, notifying students that process has been successful or unsuccessful are taken care.

**Technology Stack :**

Here in our project we are basically trying to develop web based application using the following requisites:

1. HTML and CSS: Creating template/ frontend

2. Javascript: Enhance user interactivity

3. MySQL: Retrieving content and information from database

4. PHP : Server side script language to develop logic.

**Use Case:**

**STUDENT**

SELECT ROOM

SELECT BLOCK

LOGIN

**WARDEN**

VIEW DETAILS

LOGIN

**Team Members details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Name** | **USN** | **Email id** | **Phone no.** |
| Team Leader | K S Sai Kavya | 1si15cs049 | saikavya0@gmail.com | 9845433357 |
| Team Member 1 | Meghana  M R | 1si15cs058 | meghanamr2@gmail.com | 9591399244 |
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