**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:**

*A webpage will be created which with be hyperlinked on the online fee payment confirmation webpage where they need to initially enter their details such as, Name, Year,Branch,USN,Gender , E-mail ID, Fee Receipt NO and hobbies.*

*According to the gender and year,we display the plan of a particular hostel which includes the floor no.,locations of each room,lifts,staircase,washrooms,courtyards,etc.*

*The rooms are made as buttons(with hovering) and the vacancies are shown using different colours.*

*For eg.*

*Single bed-(specifying the single bed status )*

*1.Unoccupied- green*

*2.Occupied-black.*

*Double bed- (specifying double bed status)*

*1.Unoccupied-green*

*2. 1 Vacancy-Red*

*3. occupied-black.*

*Triple bed-(specifying triple bed status)*

*1 unoccupied –green*

*2. 2 Vacancy-yellow*

*3. 1 Vacany-red*

*4. occupied – black*

*Once the person clicks on a particular room on the hostel map, he can then view the details of the previously allotted occupants of the room( if any). The details include name, branch, USN, contact details and hobbies.*

*If the occupant is confirmed in boarding the room(clicks on the confirm button), then his/her details will be linked to the corresponding room.*

*Once the person confirms the room by uploading his/her details, a confirmation mail shall be sent.*

*This is the model proposed.*

**Technology Stack :**

*The webpage will be created using HTML , CSS, and javascript.*

*The webpage designing is done using HTML for structuring, CSS for the user interface and look and feel. The logic part of the webpage will be implemented using JavaScript.*

*The details provided by the user will be stored in a database and accordingly accessed.*

*The designing shall use techniques like, hovering, sliding menubars,hyperlinking et cetera.*

*A hyperlink of this webpage will be provided on the online fee payment confirmation page .*

*A confirmation mail will be generated from the webpage using PHP mail function.*

**Use Case:**

**PRIMARY ACTORS:- 1) students/user**

**2)Hostel Admistration**

**PRECONDITIONS:- 1) The fee must be already paid(online)**

**2)Network connection is active.**

**CASE SCENARIO:-**

1. **User is directed to the homepage.**
2. **User inputs the details.**
3. **The details are stored.**
4. **Hostel layout is displayed accordingly.**
5. **The user browses through the room’s status and details.**
6. **User confirms the desired room.**
7. **An allotment confirmation mail is generated.**

**hyperlink**

INPUT USER DETAILS

FEE PAYMENT CONFIRMATION WEBPAGE.

HOME PAGE OF OUR WEBSITE

DATA STORAGE

BROWSE THROUGH THE ROOM STATUS AND VIEW DETAILS

HOSTEL LAYOUT/PLAN (according to details)

ROOM CONFIRMATION

MAIL GENERATION

**Team Members details:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Name** | **USN** | **Email id** | **Phone no.** |
| Team Leader | G.V.DIVYA RACHANA | 1SI16CS037 | gvd.rachana@gmail.com | 7760346088 |
| Team Member 1 | SONAKSHI TARWEY | 1SI16EC096 | sonarocks26@gmail.com | 8789581803 |
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