**ROOM-ALLOTMENT**

**Aim:** Identify the case study and detail statement of problem.

**Project Name:** Room Allotment Management System.

**Group Members:** Mandar Acharekar - 02

Rishabh Bhatnagar - 08

Cydnelle Alemao - 04

**Problem Statement:**

A college has a number of committees that conduct events and activities for the students. Every committee has a unique committee name and a unique location. There is a fixed number of members in each committee, which includes a faculty member who heads the committee. A committee can conduct a number of events for which it will have to book a room to accommodate the participants and audience interested in the event.

Each student can join a number of committees. We will keep track of the position each student holds in their respective committees. The students can be identified by their unique PID. Various information related to the student will be stored for reference. The students names, roll nos, gender and date of birth will be recorded. The students class will also be saved, wherein the data related to which year they belong to, the department they belong to and their division will also be entered. Every students phone no, address and email id will also be recorded.

The information related to the faculties who are members of any committee will also be entered as data. Each faculty can be a part of a number of committees. The name, phone no, email id and address of each of the faculty members will be stored for future reference. The faculty members will have to enter their designation into the database as well; along with the name of their respective department.

Any member of the committee can book the room for an event; be it a faculty member or a student. While booking the room; the date, time and duration of the event has to be mentioned. The room no of the room the committee wants to book will also be recorded. Along with all this, the reason for which the room is being booked by the committee will be summarized and stored in the database by the committee member who books the room.

Data related to each room will also be stored. The room nos. will be listed along with their availability status so as to avoid clashing of more than one committee to book the same room on the same day at the same time. The equipments present in each room will also be specified so as to help in categorizing the room based on its type (like hall, ARC, etc)

This database management system can automate the process of allocating rooms in a college. Members of a committee often encounter hurdles while booking specific rooms to accommodate the participants of their upcoming events. This system will help them reserve rooms efficiently by recording all the data effectively. This will be a great relief to the members of the committees, as it will save them the hassle of meeting multiple concerned authorities, for the required permission needed to book a particular room for the upcoming event. This system will take operations to a whole new level by making the data management process faster and efficient, while also avoiding clashes of committees to book the same room.

The members of the committee (students or faculty members) can book the rooms as per the requirement of their committee; while the higher authorities and the members of other committees can keep themselves updated with the rooms reserved. In this way, this system is of great importance during technical events or events conducted by the committees as they need to pre-book rooms.

This database management system thus, focuses on reducing the manual work of higher authorities and the committee members while pre-booking a room for an event. This is done by storing the data related to the committee and their members while also keeping track of the data related to the available rooms. Through this you can check the details of the committees, its members as well as the status of the rooms within a few minutes. Lastly, this system will improve the management work related to pre-booking rooms in college.

**Conclusion:**

In this experiment, we focused on developing a system based on the requirement specification of the committee members for booking rooms for their events and the analysis of the existing system, with flexibility for future enhancement.

This room allocation database management system is designed for people who want to manage various events organized by their respective committees. Since there is a lot of strain on the committee members to get all the required permissions manually, this project deals with these hassles and avoids the problems which occur when carried out manually.