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# Hostel Room Allocation System

Software Requirement Specification

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# 1. Introduction

## 1.1 Purpose

As the name specifies “HOSTEL ROOM ALLOCATING SYSTEM” is a software developed for managing various activities in the hostel. As we can notice that educational institutions are increasing year by year, thereby the number of hostels is also increasing at the same pace. Since this can be a lot of strain on the person who is running the hostel and software’s are not usually used in this context. Therefore there is a greater need for a software for the accommodation of the students studying in these institutions which manages this activity of maintaining hostels. And also considering the fact that a well reputed college like NITC which is ours, is taking the choices of students for allocation of rooms from Google forms and not by a GUI(in our knowledge), which is why we wanted to target this aspect and bring this software to life.

## 1.2 Objective

This particular project aims at the problems of managing a hostel and avoids the problems/errors which occur when carried manually. Identification of the drawbacks of the existing system which includes the terrible procedures like filling many forms and waiting in long queues for hours to submit those forms in hostel offices which ultimately leads to a lot of paperwork, which is very inefficient. This problem leads us to the development of computerized hostel management systems that will be compatible with the current manual system. And also which is more user friendly and more GUI oriented and can sustain from any kind of inside and outside attacks of data.

### 1.3 Scope of the Project

- Hostel Management System is designed for Hostel (like schools, Universities).
- There will be predefined criteria for the Reservation to the hostels.
- He/She checks the attested application forms of the students obtained from the internet and verify it with the student database.
- If the students are found eligible then they are allotted to the hostel room.
- There will be a portal for complaints as well which updates daily.
- This can be further modified accordingly to the later requirements of the institute.

### 1.4 Overview of Project

Hostel Room Allocation System is a web application which aims at computerization of the current procedure of allocating hostel rooms. Currently the process involves students filling up the forms and submitting them in respective hostel offices which involves a lot of paperwork, hence less efficient.

## 2. Data Design

### 2.1 Entity Relationship Diagram

### 2.2 Conceptual Schema

### 3. Entities and Attributes

This section of the document explains the entities used in the project, their attributes and how they will work together. Basically, this is intended to make the design more easy and understandable for everyone.

#### **Entities**

1. Hostels
2. Admin
3. Students
4. Rooms
5. Employees
6. Mess
7. Furniture

#### 3.1 Hostels

Name	Data Type	Attribute Type

### 3.2 Students

[illegible]

### 3.3 Rooms

Name	Data Type	Attribute Type

### 3.4 Employees

Name	Data Type	Attribute Type



### 3.5 Mess

Name	Data Type	Attribute Type

### 3.6 Furniture

Name	Data Type	Attribute Type

## 4. References

1. <http://fadicool007.blogspot.com/p/project.html>
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