Hostel Management System

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<https://github.com/Sairamkovaa/SemesterProject.git>

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After analyzing the data required, I came to know that following entities will be required for my system.

**Entities**

1. Admin:
   1. It will store data related to admin like ID, name, gender, address, contact number.
2. Student:
   1. It will store data related to student. It will store student ID, name, gender, address, contact number. The room id will be stored as it is foreign key coming from room table.
3. Manager:
   1. It will store data related to manager like ID, name, gender, address, contact number and joining date.
4. Room:
   1. It will record information related to room. It will store room-capacity, number of beds and price. The capacity will tell how many students can stay in a room at a time while number of beds will tell maximum number of beds available in a room.
5. Guest:
   1. It will store data related to guest who will visit the students. It will store ID, name, gender, address, contact number and date-in, date\_out. The room id will be stored as it is foreign key coming from room table.
6. Worker:
   1. It will store data related to worker like ID, name, gender, address, designation, joining date, and salary and contact number.

**Data types**

**Admin**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Admin\_id | Integer |
| Name | varChar[20] |
| Gender | varChar[20] |
| Address | varChar[50] |
| Contact\_no | Integer |

**Student**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Student\_id | Integer |
| Name | varchar[20] |
| Gender | varchar[20] |
| Address | varchar[50] |
| Contact\_no | Integer |
| Room\_id | Integer |

**Manager**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Manager\_id | Integer |
| Name | varChar[20] |
| Gender | varChar[20] |
| Address | varChar[50] |
| Joining\_date | date |

**Room**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Room\_id | Integer |
| Price | Float |
| Capacity | Integer |
| No\_of\_beds | Integer |

**Guest**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Guest\_id | Integer |
| Name | varchar[20] |
| Gender | varchar[20] |
| Address | varchar[50] |
| Contact\_no | Integer |
| Date\_in | date |
| Date\_out | date |
| Room\_id | Integer |

**Worker**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Worker\_id | Integer |
| Name | varChar[20] |
| Gender | varChar[20] |
| Address | varChar[50] |
| Designation | varChar[50] |
| Salary | Float |
| Contact\_no | Integer |