

HOSTEL ALLOCATION SYSTEM

SRS (Software Requirements Specification)

Product Perspective:

Hostel allocation system will help the students choose his/her required room in the corresponding hostel. The system will provide a easy to use interface for a particular student in which he/she can login with their MNIT ID and proceed further, If a room is already chosen by the student then that room would be locked for all other students in an instant.

Product Functions:

1. Admin-

- Admin should be able to log in using their MNIT ID.
- Admin should be able to insert the data of the students who are eligible for hostel and only they are allowed to choose their hostel room.
- Admin should be able to insert the details for the hostel vacancy / rooms availability for a particular batch and branch.
- Admin should be able to edit the information of the rooms / hostel.
- Admin should be able to check / verify the fee payment details for the particular student.
- Admin should be able to lock and unlock the room slot depending upon the fee payment receipt.
- Admin should be able to cancel the room request from the student if receipt and transaction details are found incorrect.
- Admin should be able to close the choosing room functionality and can open it also.

2. Student-

- Students should be able to login using their MNIT ID and a OTP sent at their respective ID at time of login.
- Students can see all the available rooms in the hostels allocated to his/her branch.
- Students can see a map of the hostel rooms on the portal and can select the room whichever he/she wants.
- Students can only select one room
- Students cannot select rooms which are already booked/locked by other students.
- After selecting and confirming the room, that room will be temporarily locked for that student until fee payment, and student will automatically be redirected to MNIT ERP site (mniterp.org) for hostel fee payment and students need to pay the fee within a particular time period(10-15 minute window).
- If a student is unable to pay the fee within this time-window then that selected room will be de-selected again and will be considered as vacant for all other students.
- After successful fee payment, students need to enter their corresponding transaction ID and also need to submit Hostel Fee Receipt at the same place on the system.
- After submitting both these required details(transaction ID and Fee Receipt), this particular room will be locked for this particular student until the submitted details are verified and approved by the admin.
- After verification, if all the details are found correct then that room will be allocated to that particular student.

- If after verification the details are found incorrect then the admin will reject his/her selected room and that particular room will not be allocated to that student and hence will be unlocked/Vacant for selecting by all the other students.

Use Case Diagram:

