

SwiftRoom Allocator

Streamlining Hostel Room Allotment System

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Objective

Simplify and expedite the hostel room allocation process for college students.

Core Features

O1 Instant Room Allocation

Students can swiftly secure a room without a formal application process.

O2 Transparent Student Information

Providing visibility into room details, state, batch, and course.

O3 Complete Admin Control

Admins can view, change and update student and hostel information.

Functionalities

01 Create

- Register students in the hostel.
- Create a new room.

02 Read

- Admins can read all rooms and students.
- Students can read their own room and all rooms without sensitive data.

03 Update

- Admins can change, allot and deallot a room to student.
- Students can get, change and leave a room, and update their information.

04 Delete

- Admins can delete a student and a room.
- Students can delete themselves.

System Components

Back-End

Node.js

Database

MySQL

Front-End

React

Communication, Security

Express.js, bcrypt, JWT

Testing

ThunderClient

- Used for testing backend routes.

User Testing

- Ensuring seamless functionality for end-users.

Future Enhancements

- **Implementing all Back-End Features:**
Providing the complete experience
- **Improving Front-End:**
For better user experience.
- **Additional Features:**
According to user feedback

Thank You!
