Apna Hostel – Hostel Management System

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BACKGROUND

In our current era of automated systems with it being either software or hardware, it's not advisable to be using manual system. Hostels without a management system are usually done manually. Thus, a lot of repetitions can be avoided with an automated system. The drawbacks of existing systems lead to the design of a computerised system that will help reduce a lot of manual inputs.

MOTIVATION

We have got six hostels in our university, which consist of four boy's hostel and two girl's hostel. All these hostels at present are managed manually by the hostel office. The Registration form verification to the different data processing are done manually. Thus there are a lot of repetitions which can be easily avoided. And hence there is a lot of strain on the person who are running the hostel and software's are not usually used in this context.

This system is designed in favour of the hostel management which helps them to save the records of the students about their rooms and other things. It helps them free from the manual work from which it is very difficult to find the record of the students and the mess bills of the students, and the information of about those ones who had left the hostel years before.

PROPOSED SOLUTION

To address all the challenges and problems associated with the current manual system, we decided to create a fully automated web application which will have the following features:

- This system will help the hostel admin to be able to manage the affairs of the hostel.
- It will provide full information about a student/employee in the hostel.
- This system will also provide details regarding mess bills students are owing.
- The admin can also display important notices viewable by everyone.
- Students would also be able to submit their complaints about issues of the hostel.
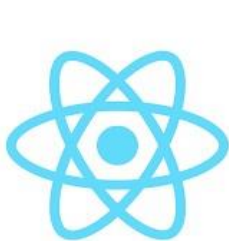
OBJECTIVE

Our objective is to create an application that will reduce the manual work and increase management productivity. This will also reduce the bundle of registers that are there to search the information of a student. Through this you can check the personal profile of all the current students within few minutes. In the last, this system will improve the management work in the hostel.

- To automate each and every activity of the manual system, which increases its throughput.
- To provide a quick response with very accurate information as and when required.
- To make the present manual system more interactive, speedy and user friendly.
- To avail any information, whatever and whenever needed.
- Reduce the cost of maintenance.

We aim to provide a responsive web application where admin can check the students hostel details in a quick and easy way.

TECH STACK USED

Frontend: Reactjs, Redux, Bootstrap

Backend: Nodejs, Express (Rest API)
MongoDb (Database)