HOSTEL MANAGEMENT SYSTEM

Problem Statement:

Hostel management is typically handled through manual registers and spreadsheets. This leads to inefficiencies, data loss, and human errors. There is no centralized system to track room allocation, maintenance, student attendance, or fee payments. A digitized solution is necessary.

Abstract:

The Hostel Management System is a web-based application designed to streamline hostel operations by providing a centralized platform for both students and wardens. The daily attendance feature records and updates student presence regularly, and this information can be accessed by parents to stay informed about their child's daily hostel routine and safety. This promotes transparency and builds trust between parents and hostel authorities. Developed using React for the frontend, Python for the backend, and SQL with XAMPP for database management, this system ensures efficient and secure data handling. The platform enables students to view their attendance records and track complaint reports related to hostel maintenance or personal concerns. On the administrative side, wardens function as system admins with access to comprehensive tools to manage hostel logistics. They can add, update, or remove student and room records, maintain attendance logs, and file reports on hostel damages or maintenance needs. Additionally, wardens can access detailed statistics and visual summaries of student attendance to aid in monitoring and decision-making. This project offers a user-friendly interface and robust functionality, fostering transparency and improving communication between students and hostel administrators, while ensuring efficient hostel resource management.

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