

# Students Entry Management System

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**Abstract:** In today's educational institutions, ensuring the efficient and secure management of student entries and exits is a critical task. This project proposes an efficient and secure student entry management system utilizing barcode technology integrated with student ID cards. The proposed system leverages barcode technology, utilizing the barcode embedded on student ID cards to streamline this process. By scanning the barcode at entry and exit points, the system automatically logs student movements, eliminating the need for manual registers or ID verification. This ensures that only authorized students access the campus, enhancing both security and operational efficiency. Upon scanning the ID card, the system verifies student identity, records attendance, and grants access. Automated alerts are sent to authorities in case of unauthorized attempts or discrepancies. The system enhances security, reduces manual errors, and streamlines attendance tracking, providing a seamless experience for students, HOD, and guardians. This innovative solution modernizes college entry management, ensuring accuracy, efficiency, and enhanced campus security. The entry management system is designed to function in real-time, with each barcode scan recorded in a centralized database accessible by college admin. This database can be used to monitor attendance, generate reports, and track students' presence on campus. The system also offers flexibility by allowing integration with existing campus management software, and can be adapted to track staff movements as well. Through this system, institutions can ensure better time management, reduce paperwork, and improve data accuracy. This barcode-based system provides a cost-effective and scalable solution for entry management in colleges. It enhances security by ensuring that only registered students can enter and exit the campus while providing administrators with actionable data to optimize campus operations. This technological upgrade also streamlines the student experience, making it more convenient and time-efficient. The barcode-based entry management system offers a secure, efficient, and cost-effective solution for colleges to manage student entry and attendance. By leveraging the existing student ID card infrastructure, the system minimizes the need for additional hardware or software investments. With its ease of use and robust functionality, this system has the potential to transform the way colleges manage student entry and attendance, leading to improved administrative efficiency and enhanced student experience.

**Keywords:** Java, Web Application, Barcode, HOD, Gaurdian , Students, I-Card.