

BusConnect - Highlighting Connectivity between Different Aspects of Bus Management

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Abstract: *BusConnect is a comprehensive Bus Management System designed to streamline the management of student transportation services in educational institutions. The system aims to address challenges such as tracking bus routes, managing student registrations, calculating transportation fees, and maintaining accurate records. With real-time tracking of bus locations, estimated travel times, and fee calculations based on distance, it enhances transparency and operational efficiency. Additionally, it offers a centralized database for managing student records, including personal details and payment history, while providing an intuitive admin panel for overseeing bus operations. By improving communication between students, parents, and administration, BusConnect ensures better coordination, reduces administrative workload, and minimizes errors. The system architecture is built on a robust backend, utilizing PHP, MySQL, and Apache, with cloud-based or dedicated hosting for scalability. This digital solution transforms the way bus services are managed, offering a more efficient, reliable, and cost-effective transportation experience for educational institutions.*

Keywords: Bus Management, Student Transportation, Fee Management, Real-Time Tracking, Administrative Efficiency