QR Scan Based Intelligence System for School Bus Tracking

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Abstract*: The secured bus tracking system is useful to avoid the existing traffic jam of private vehicles and majority of the parents consider school buses to be largely unsafe for their kids. However, the school buses which are safe and user-friendly can reduce the use of private vehicles and will eventually reduce the traffic jam in cities especially in the school hours. Using the proposed intelligent and secured bus tracking system the parents can track the school buses. This tracking system includes an Android application that can be employed to send notifications during entry and exit of the students using Barcode scanner, ensuring arrival confirmation of the student by dual authentication duration while reviewing bids and also to spend the necessary amount of time during The focus of the system is to display the feasibility of a safe and intelligent school bus using secured tracking system based on authentication procedures. It is expected that this research will regain the confidence and reliability of parents in school bus and reduce the use of private vehicles. A smart school bus will ease the tension of the parents by notifying them about their child's entry and exit in the bus and will keep the students safe also the city will not face the situations like traffic jam.*

Keywords: School Bus, GPS, QR Scan, Smartphone Application, Android Google Maps

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