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Automatic Gate Control with Vehicle Attendance System

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Abstract: The system aims to improve efficiency and security by automating the process of allowing or denying access to vehicles based on their attendance status. The system utilizes various components such as RFID technology, sensors, microcontrollers, and a database to achieve its functionality. When a vehicle approaches the gate, RFID sensors detect its presence using RFID tag and send the information to the microcontroller. The microcontroller then checks the attendance status of the vehicle in the database. If the vehicle is authorized based on its attendance record, the gate opens automatically to allow entry. Conversely, if the vehicle's attendance status is not satisfactory, the gate remains closed, denying access. The attendance monitoring system keeps track of vehicle attendance using a registration process. Each vehicle's attendance is recorded in the database on web page, allowing the gate control system to make informed decisions about granting or denying access. The attendance records can be updated in real-time, providing a dynamic and accurate system for gate control.

Keywords: RFID Technology, RFID tag, web page, attendance

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