Gokaraju Rangaraju Insititute of Engineering and Techonology

Department of Information Technology

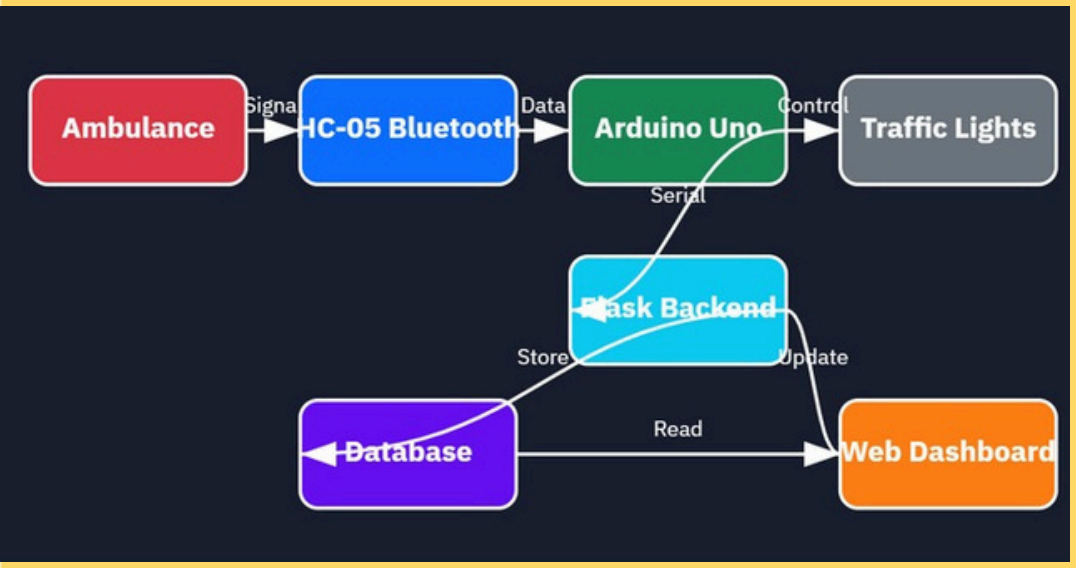
Smart Ambulance Traffic Control using Bluetooth.

Objective:

The primary objective of the Smart Ambulance Traffic Control Using Bluetooth project is to create an efficient traffic management system that prioritizes ambulances during emergencies.

System Design:

The system uses an HC-05 Bluetooth module installed in the ambulance to transmit a unique signal. At traffic signals, a compatible Bluetooth receiver detects this signal and triggers a green light for the ambulance's path. This wireless setup ensures faster emergency response without complex infrastructure.



Conclusion

The Smart Ambulance Traffic Control system using Bluetooth offers a practical solution to reduce delays for emergency vehicles in congested urban areas. By leveraging Bluetooth technology, the system enables real-time communication between ambulances and traffic signals. This ensures that traffic lights automatically turn green in the direction of an approaching ambulance. It reduces the need for manual intervention and enhances the efficiency of emergency response. The system is cost-effective, easy to implement, and does not rely on internet or GPS. It improves road safety and ensures that ambulances reach hospitals faster. The technology is scalable and can be integrated with existing traffic control systems. It also minimizes the risk of traffic accidents during emergencies.

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