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Team-48

Project title: Smart signaling for Ambulance

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Goal: To Clear congestion for ambulances by using smart signaling that prioritizes ambulances using unique blue light.

Work completed today:

Ambulance GPS and Route Planning

- The ambulance driver selects a hospital as the destination.
- The system calculates the fastest route using real-time traffic data from Google Maps.
- Alternative routes are suggested if congestion is detected.
  Using visual studio code

Traffic Signal Management

- Sensors detect an ambulance approaching an intersection (approx. 500 meters away).
- Traffic signals along the route turn **blue**, signaling vehicles to clear the road.
- Signals revert to normal once the ambulance has passed the intersection.
  Done using ESP32, LEDS, Bread board, jump wires.

Vehicle Alert System

- Nearby vehicles receive alerts through visual signals or smartphone notifications.
- Vehicles are guided to safely clear the ambulance's path.
- Vehicle number plate detection.