IntoxiCheck Alert: IoT-Based Real-Time Alcohol Sensor System

Abstract:

In recent years, drunk driving has claimed many lives, and it places people at risk on the roads, both behind the wheel and in pedestrian shoes. The project describes **IntoxiCheck Alert: IoT-Based Real-Time Alcohol Sensor System** for the furtherance of road safety. The system employs an MQ-3 alcohol sensor to assess the alcohol level in breath on the entry of a driver into the vehicle. If alcohol above a certain level is detected, some safety measures are taken. The buzzer sounds an alarm, and the seat's vibration motor warns the driver. Further, an LED warning system alerts the surrounding individuals.

This kind of integration with IoT technology allows for real-time monitoring and instant alerts, thereby making this system a proactive solution to prevent any drunk-driving incident. All these features put together by IntoxiCheck to prevent accidents are the detection of alcohol, alerting in real-time, and communication for emergencies, thus encouraging responsible driving.