LIVE FLEET MONITORING SYSTEM

ABSTRACT:

Designing a vehicle tracking system which can work effectively, accurate and reliable is emerging in many areas. Such a system is commonly used GPS technology to determine location of the vehicle. It can be used to track a vehicle or fleet of vehicles and get information related to the current location of the vehicles. In this project, an efficient vehicle tracking system is implemented for monitoring the live tracking of SCHOOL/COLLEGE buses from any location at any time. This project is developed with the help of Global Positioning System (GPS), Global System for Mobile communication (GSM) modem and Microcontroller and RFID. The location of the vehicle is retrieved using an embedded GPS sensor. Location data is compressed before it is sent to the cloud and offers cost effective usage of network traffic with the use of Microcontroller. This system provides the facility to the user to track their vehicle remotely through the dedicated mobile application. This project presents the development of vehicle tracking systems hardware prototype and GUI application for displaying the actual position of vehicle. Another major use in this system is RFID to keep track of the students boarding the bus. This project is developed in a way that both students and management are benefited. Management can keep track of students boarded, route used by the driver and fuel level of the bus. Meantime students can know if the respective bus has passed the boarding location or not.

Block Diagram: